43FRBCERCLASF10,623

43FRBCERCLASF10,623

Site Name:	SOUTHERN WOOD PIEDMONT
Subsite:	
Site Name: *Do not enter text.*	NCD058517467
Full Site Name (Subject): *Do not enter text.*	SOUTHERN WOOD PIEDMONT
Document Type:	REMEDIAL INVESTIGATION (RI)
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ATTACHMENT A

GENERAL NOTES FOR TEST BORING LOGS

1. NUMBERS IN SAMPLING DATA COLUMN (3+6+27) INDICATE BLOWS REQUIRED TO DRIVE A 2 INCH O.D., 1-3/8 INCH I.D. SAMPLING SPOON 6 INCHES USING A 140 POUND HAMMER FALLING 30 INCHES ACCORDING TO ASTM D1586.

2. VISUAL CLASSIFICATION OF SOIL IS IN ACCORDANCE WITH TERMINOLOGY SET FORTH IN THE ATTACHED "IDENTIFICATION OF SOIL." THE GROUP CLASSIFICATION SYMBOLS SHOWN IN THE CLASSIFICATION COLUMN ARE BASED ON VISUAL INSPECTION AND AVAILABLE LABORATORY DATA.

3. GROUNDWATER OBSERVATIONS: THE DEPTH OF WATER BELOW GRADE WAS MEASURED AT THE TIMES INDICATED. THE DEPTHS MAY VARY WITH PRECIPITATION, POROSITY OF THE SOIL, SITE TOPOGRAPHY, ETC.

4. REFUSAL AT THE SURFACE OF ROCK, BOULDER, OR OBSTRUCTION IS DEFINED AS A RESISTANCE OF 100 BLOWS FOR 2 INCHES PENETRATION OR LESS.

5. THE BORING LOGS AND RELATED INFORMATION DEPICT SUBSURFACE CONDITIONS ONLY AT THE SPECIFIC LOCATIONS AND AT THE PARTICULAR TIME WHEN DRILLED. SOIL CONDITIONS AT OTHER LOCATIONS MAY DIFFER FROM CONDITIONS OCCURRING AT THESE BORING LOCATIONS. ALSO, THE PASSAGE OF TIME MAY RESULT IN A CHANGE IN THE SUBSURFACE SOIL AND GROUNDWATER CONDITIONS AT THESE BORING LOCATIONS.

6. THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL AND ROCK TYPES AS DETERMINED FROM THE DRILLING AND SAMPLING OPERATION. SOME VARIATION MAY ALSO BE EXPECTED VERTICALLY BETWEEN SAMPLES TAKEN. THE SOIL PROFILE, WATER LEVEL OBSERVATIONS, AND PENETRATION RESISTANCES PRESENTED ON THESE BORING LOGS HAVE BEEN MADE WITH REASONABLE CARE AND ACCURACY AND MUST BE CONSIDERED ONLY AS AN APPROXIMATE REPRESENTATION OF SUBSURFACE CONDITIONS TO BE ENCOUNTERED AT THE PARTICULAR LOCATION.

7. TEST BORINGS DRILLED BY **ARM ENVIRONMENTAL SERVICES, COLUMBIA, SOUTH CAROLINA,** UNDER THE INSPECTION OF **SCHNABEL ENGINEERING ASSOCIATES.**

8. KEY TO SYMBOLS AND ABBREVIATIONS:

DO = DITTO

SCHNABEL ENGINEERING ASSOCIATES
Consulting Engineers and Geologists
IDENTIFICATION OF SOIL

I. DEFINITION OF SOIL GROUP NAMES — ASTM D2487

			Symbol	Group Name
Coarse-Grained Soils More than 50% retained on No. 200 sieve	Gravels - More than 50% of coarse fraction retained on No. 4 sieve Coarse, : to 3" Fine, No. 4 to :"	Clean Gravels Less than 5% fines	GW	Well graded gravel
			GP	Poorly graded gravel
		Gravels with Fines More than 12% fines	GM	Silty gravel
			GC	Clayey gravel
	Sands - 50% or more of coarse fraction passes No. 4 sieve Coarse, No. 10 to No. 4 Medium, No. 40 to No. 10 Fine, No. 200 to No. 40	Clean Sands Less than 5% fines	SW	Well graded sand
			SP	Poorly graded sand
		Sands with Fines More than 12% fines	SM	Silty sand
			SC	Clayey sand
Fine-Grained Soils 50% or more passes the No. 200 sieve	Silts and Clays - Liquid Limit less than 50 Low to medium plasticity	Inorganic	CL	Lean clay
			ML	Silt
		Organic		Organic clay
			OL	Organic silt
	Silts and Clays - Liquid Limit 50 or more Medium to high plasticity	Inorganic	CH	Fat clay
			MH	Elastic silt
		Organic		Organic clay
			OH	Organic silt
Highly Organic Soils	Primarily organic matter, dark in color, and organic odor		PT	Peat

II. DEFINITION OF MINOR COMPONENT PROPORTIONS

Minor Component	Approximate Percentage of Fraction by Weight
Adjective Form	
Gravelly, Sandy	30 % or more coarse grained
With	
Sand, Gravel	15% or more coarse grained
Silt, Clay	5% to 12% fine grained
Trace	
Sand, Gravel	Less than 15% coarse grained
Silt, Clay	Less than 5% fine grained

III. GLOSSARY OF MISCELLANEOUS TERMS

SYMBOLS: Unified Soil Classification Symbols are shown above as group symbols. Use A Line Chart for laboratory identification. Dual symbols are used for borderline classifications.

BOULDERS & COBBLES: Boulders are considered rounded pieces of rock larger than 12 inches, while cobbles range from 3 to 12 inch size.

DISINTEGRATED ROCK: Residual rock material with Standard Penetration Resistance (SPT) of more than 60 blows per foot, and less than refusal. Refusal is defined as a SPT of 100 blows for 2" or less penetration.

ROCK FRAGMENTS: Angular pieces of rock, distinguished from transported gravel, which have separated from original vein or strata and are present in a soil matrix.

QUARTZ: A hard silica mineral often found in residual soils.

IRONITE: Iron oxide deposited within a soil layer forming cemented deposits.

CEMENTED SAND: Usually localized rock-like deposits within a soil stratum composed of sand grains cemented by calcium carbonate or other materials.

MICA: A soft plate of silica mineral found in many rocks, and in residual or transported soil derived therefrom.

ORGANIC MATERIALS (Excluding Peat):
- Topsoil - Surface soils that support plant life and which contain considerable amounts of organic matter;
- Organic Matter - Soil containing organic colloids throughout its structure;
- Lignite - Hard, brittle decomposed organic matter with low fixed carbon content (a low grade of coal).

FILL: Man-made deposit containing soil, rock and often foreign matter.

PROBABLE FILL: Soils which contain no visually detected foreign matter but which are suspect with regard to origin.

LENSES: 0 to 2 inch seam of minor soil component.

LAYERS: 2 to 12 inch seam of minor soil component.

POCKET: Discontinuous body of minor soil component.

COLOR SHADES: Light to dark to indicate substantial difference in color.

MOISTURE CONDITIONS: Wet, moist, or dry to indicate visual appearance of specimen.

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS GRAPH	SYMBOLS LETTER	TYPICAL DESCRIPTIONS
COARSE GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN GRAVELS		GW	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
		(LITTLE OR NO FINES)		GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
		(APPRECIABLE AMOUNT OF FINES)		GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	CLEAN SANDS		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
		(LITTLE OR NO FINES)		SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
		SANDS WITH FINES		SM	SILTY SANDS, SAND - SILT MIXTURES
		(APPRECIABLE AMOUNT OF FINES)		SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE GRAINED SOILS MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

GEOPROBE #	NORTH	EAST	GRND EL.
gp-1	170903.098	2317395.952	4.10
gp-2	170887.731	2317509.024	3.46
gp-3	170770.786	2317293.908	4.20
gp-4	170803.205	2317583.836	3.35
gp-5	170816.130	2317683.060	3.39
gp-6	170664.057	2317186.479	3.37
gp-7	170672.689	2317283.192	3.63
gp-8	170682.024	2317383.005	3.52
gp-9	170691.237	2317482.275	3.91
gp-10	170698.052	2317578.748	3.43
gp-11	170708.235	2317676.045	3.62
gp-12	170716.543	2317775.425	2.84
gp-13	170580.332	2317386.686	3.06
gp-14	170590.964	2317482.399	3.48
gp-15	170623.508	2317585.552	2.88
gp-16	170609.442	2317683.834	2.55
gp-17	170616.569	2317782.331	2.77
gp-18	170624.786	2317880.574	2.16
gp-19	170609.784	2317995.337	2.04
gp-20	170491.931	2317487.454	3.14
gp-21	170369.786	2317432.847	2.67
gp-22	170523.936	2317988.786	1.98
gp-23	170275.852	2317386.723	3.75
gp-24	170381.033	2317493.358	1.75
gp-25	170171.436	2317395.002	3.32
gp-26	170318.161	2317610.149	1.43
gp-27	170405.519	2317803.833	1.67
gp-28	170513.519	2317587.254	1.17
gp-29	170482.181	2317373.792	2.91
gp-30	170440.145	2317943.481	1.41
gp-31	170146.536	2317314.246	5.04
gp-32	170422.486	2317515.898	2.39
gp-33	170437.465	2317896.730	1.32
gp-34	170229.821	2317218.294	4.27
gp-35	170295.574	2317554.619	1.51
gp-36	170379.499	2317335.646	3.97
gp-37	170394.975	2317231.045	2.88
gp-38	170442.831	2317693.189	1.52
gp-39	170400.108	2317116.008	3.20
gp-40	170502.985	2317122.077	2.96
gp-41	170570.134	2317274.754	3.22
gp-42	170653.349	2317083.612	2.97
gp-43	170643.508	2316985.132	2.83
gp-44	170655.931	2316888.373	2.86
gp-45	170754.998	2316995.884	3.04
gp-46	170745.946	2317093.179	3.18
gp-47	170753.655	2317191.704	3.15
gp-48	170845.477	2316998.076	3.87
gp-49	170847.286	2317098.609	3.74
gp-50	170367.779	2317713.682	1.09
gp-51	170857.348	2317199.893	3.22
gp-52	170864.357	2317300.530	3.70
gp-53	170963.301	2317315.674	3.60
gp-54	171004.061	2317410.929	3.50
gp-55	170902.483	2317591.227	3.93
gp-57	170988.226	2317497.263	3.48
gp-58	171085.725	2317509.009	3.58
gp-59	170949.131	2316996.918	3.46
gp-60	170943.315	2317107.916	3.81
gp-61	170558.950	2317177.874	3.02
gp-62	170525.793	2317686.339	1.99
gp-63	170538.129	2317787.607	1.84
gp-64	170540.683	2317889.926	1.61
gp-65	171120.325	2316572.641	5.14
gp-66	171099.897	2316674.204	3.83
gp-67	171083.128	2316770.512	4.35
gp-68	171067.894	2316856.501	3.67
gp-69	170980.609	2316916.385	3.47
gp-70	170882.077	2316985.786	5.34
gp-71	170773.887	2317449.624	4.49
gp-72	170735.910	2317090.202	3.30
gp-73	170527.686	2317957.899	2.40
gp-75	170994.112	2316817.157	3.86
gp-76	171083.897	2316931.203	3.29

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-1** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

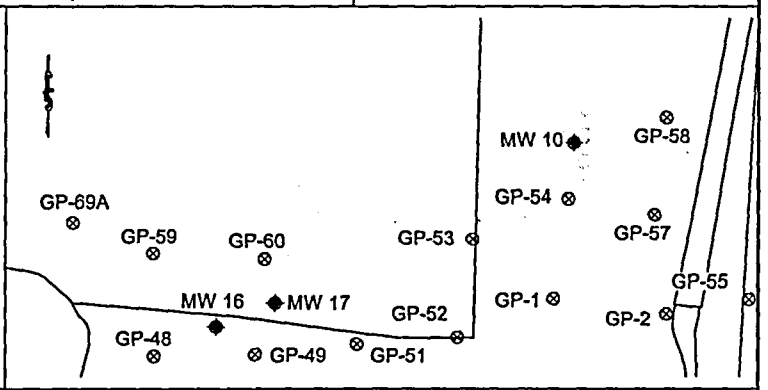
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/1/00 **Finished:** 11/1/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 4.1± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
0.5	FINE SAND WITH SILT & ROOT	SP		3.6			
	FINE TO MEDIUM SAND WITH GRAVEL, WET-GRAY						
						RESIDUAL	STRONG
5.5	FINE TO MEDIUM SAND, WET-GRAY			-1.4	A		
10.0	FINE SAND, WET-GRAY			-5.9			FAINT
13.0	MEDIUM TO COARSE SAND, WET-DARK BROWN			-8.9		RESIDUAL	STRONG
15.6	LEAN CLAY, TRACE SAND, MOIST-DARK BROWN	CL		-11.5		PUMPABLE	FAINT
17.0	PEATY LEAN CLAY, MOIST-DARK BROWN	CL-PT		-12.9	B		
18.0	LEAN CLAY WITH PEAT, MOIST-DARK BROWN	CL		-13.9			
20.0	BOTTOM OF BORING @ 20.0 FT.			-15.9			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900791.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-2** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

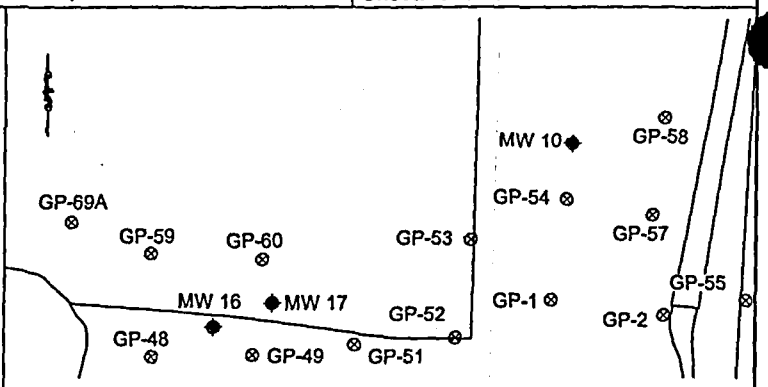
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/1/00 **Finished:** 11/1/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 3.5± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRATUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
0.5	FINE SAND WITH SILT & ROOT, DRY-TAN	SP		3.0			
	FINE TO COARSE SAND WITH GRAVEL, PEAT & CLAY, CRUSH & RUN, MOIST (FILL)					RESIDUAL	STRONG
3.7	FINE TO MEDIUM SAND, MOIST-GRAY			-0.2			FAINT
5.0	PEATY CLAY, WET-DARK BROWN	CL/PT		-1.5		RESIDUAL	STRONG
5.3	FINE TO COARSE SAND, WET-GRAY	SP		-1.8	A		FAINT
							MODERATE
12.3				-8.8			
12.7	LEAN CLAY, TRACE SAND, MOIST-DARK BROWN	CL		-9.2			
	CLAYEY PEAT, MOIST-DARK BROWN	PT/CL			B		
16.0	BOTTOM OF BORING @ 16.0 FT.			-12.5			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900791.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-3** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

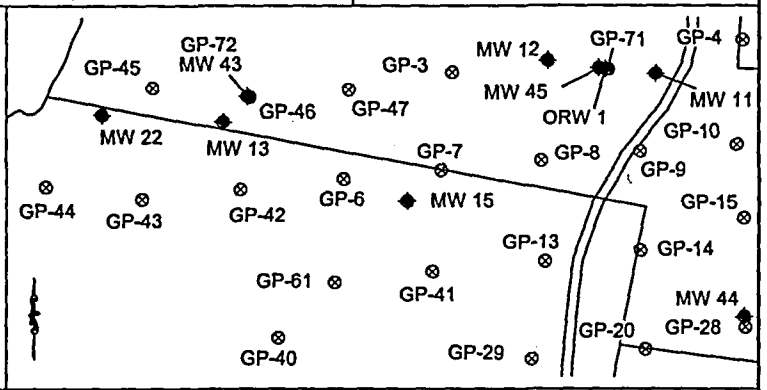
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/1/00 **Finished:** 11/1/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 4.2± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRATUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
	FINE SAND WITH SILT & ROOT, MOIST-TAN	SP					
1.8				2.4			
2.1	FINE SAND WITH GRAVEL, WET-DARK BROWN			2.1			
	FINE TO MEDIUM SAND, WET-BROWN						
3.8				0.4			
3.9	CLAY SEAM, WET-GRAY	CL		0.3		SHEEN	
	FINE TO COARSE SAND, WET-GRAY	SP					
						RESIDUAL 0.1' SEAMS	
					A		MODERATE/STRONG
						RESIDUAL 0.1' SEAMS	
14.5				-10.3			
14.7	LEAN CLAY, MOIST-DARK BROWN	CL		-10.5			
	PEATY LEAN CLAY, MOIST-DARK BROWN	CL/PT			B		
16.0				-11.8			
	BOTTOM OF BORING @ 16.0 FT.						

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900792.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-4** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

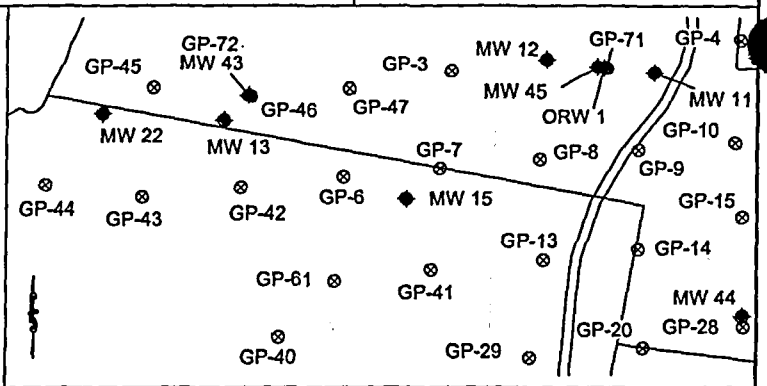
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/1/00 **Finished:** 11/1/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 3.4± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
0.8	FINE SAND WITH SILT, ROOT & ROCK	SP		2.6			
1.6	FINE SAND, MOIST-TAN			1.8			
2.6	WOOD			0.8			
4.0	FINE SAND, WET-GRAY	SP		-0.7		RESIDUAL	MODERATE/STRONG
4.8	FINE SAND WITH SILT, WET-GRAY			-1.5		RESIDUAL-SHEEN	MODERATE/STRONG
11.7	FINE TO COARSE SAND, WET-GRAY			-8.4	A	RESIDUAL	FAINT STRONG
12.0	LEAN CLAY	CL		-8.7			
16.0	PEATY LEAN CLAY, MOIST-DARK BROWN	CL/PT		-12.7	B		FAINT
	BOTTOM OF BORING @ 16.0 FT.						

SWP DNAPL LOGS 97900792.GPJ GREG.GDT 10/5/01

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-5** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

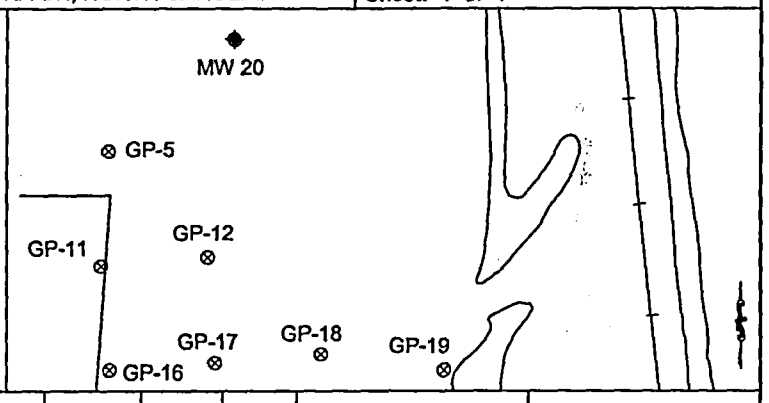
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/1/00 **Finished:** 11/1/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 3.4± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
0.5	FINE SAND WITH SILT & ROOT, MOIST-BROWN	SP		2.9			
1.5	FINE SAND, MOIST-TAN			1.9			
1.8	FINE SAND WITH ROCK, MOIST-DARK GRAY			1.6			
	FINE SAND, WET-GRAY						MODERATE
5.0	FINE TO COARSE SAND, WET-GRAY			-1.6	A		FAINT
11.8	LEAN CLAY, MOIST-DARK BROWN	CL		-8.4	B		
12.0	BOTTOM OF BORING @ 12.0 FT.			-8.6			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-6** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

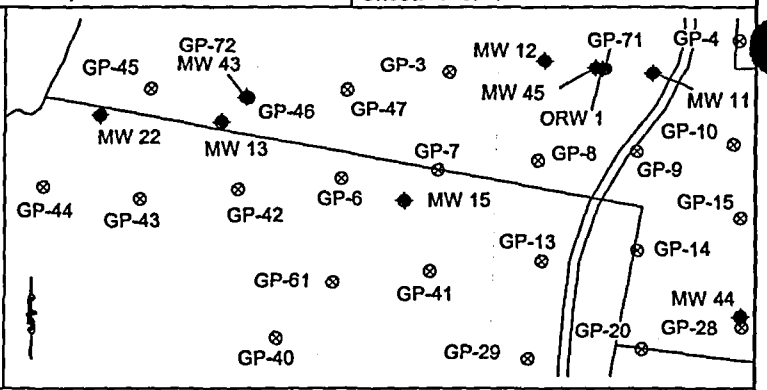
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/2/00 **Finished:** 11/2/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 3.4± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRATUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
0.5	FINE SAND WITH SILT, MOIST-DARK BROWN	SP		2.9			
	FINE TO COARSE SAND, CLAY & ROCK (FILL)						FAINT
3.7	FINE TO COARSE SAND WITH SILT			-0.3			DIESEL
4.8	LEAN CLAY, MOIST TO WET-GRAY	CL		-1.4			
5.6	FINE TO COARSE SAND, WET-GRAY	SP		-2.2	A		
9.0	FINE TO COARSE SAND WITH SILT, WITH DEPTH SANDS BECOMING COARSER WITH LESS SILT, WET-BROWN			-5.6		DIESEL-SHEEN	DIESEL
						RESIDUAL-SEAMS	MODERATE/STRONG
15.7	LEAN CLAY, MOIST-GRAY	CL		-12.3	B		FAINT
15.8	PEATY CLAY/CLAYEY PEAT, MOIST-DARK BROWM	CL/PT		-12.4			
16.0	BOTTOM OF BORING @ 16.0 FT.			-12.6			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900792.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-7** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

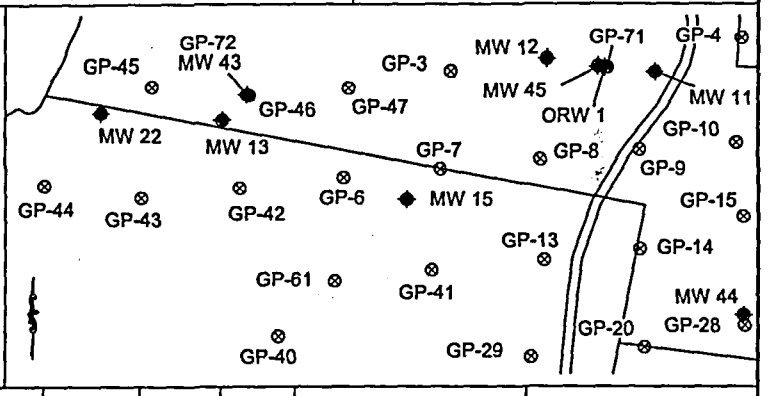
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/2/00 **Finished:** 11/2/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 3.6± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRATUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
0.4	FINE TO MEDIUM SAND WITH SILT & ROOT	SP		3.2			
1.0				2.6			
1.5	FINE TO COARSE SAND, CLAY & ROCK (FILL)	SP		2.1		RESIDUAL	STRONG
	TREATED TIMBER						
	FINE TO COARSE SAND, WET-GRAY						
7.0				-3.4			FAINT
7.2	LEAN CLAY WITH WOOD, WET-GRAY	CL		-3.6	A		
	FINE TO COARSE SAND, WET-GRAY	SP					
12.4				-8.8			
13.0	FINE TO MEDIUM SAND, WET-BROWN GRAY	CL		-9.4			
13.2	LEAN CLAY WITH ROOT, WET-BROWN	SP		-9.6		RESIDUAL	MODERATE
14.7	FINE TO MEDIUM SAND, WET-BROWN GRAY	CL/PT		-11.1	B		FAINT
16.0	PEATY LEAN CLAY, MOIST-DARK BROWN, BECOMING MORE PEATY @ 15.8'			-12.4			
	BOTTOM OF BORING @ 16.0 FT.						

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900792.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-8** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

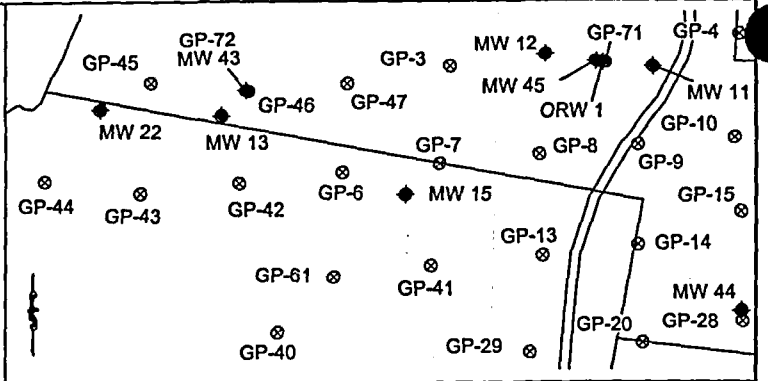
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/2/00 **Finished:** 11/2/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 3.5± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
	FINE SAND WITH SILT & ROOT, MOIST-BROWN, PIECE OF COAL @ 2'	SP					
4.0	FINE TO COARSE SAND-ROCK-CONCRETE (FILL)			-0.5	A		
7.5	FINE TO COARSE SAND WITH 1" CLAY SEAMS @ 7.6'-7.7' AND 7.8'-7.9', WET-GRAY			-4.0			FAINT
12.5	LEAN CLAY & LEAN CLAY WITH PEAT, MOIST-DARK BROWN	CL/PT		-9.0	B		
16.0	BOTTOM OF BORING @ 16.0 FT.			-12.5			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900792.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-9** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

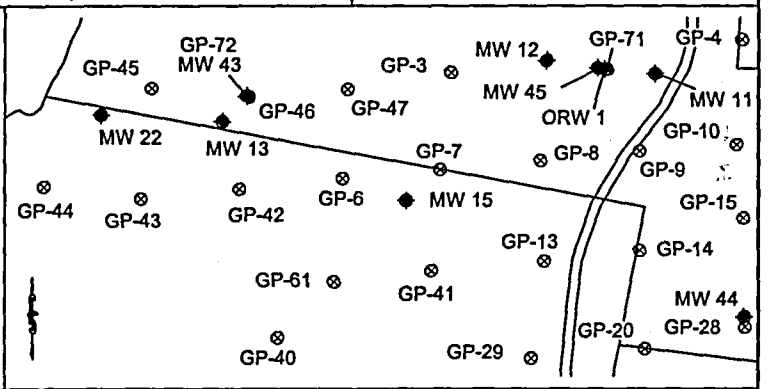
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/2/00 **Finished:** 11/2/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 3.9± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
0.4	FINE TO MEDIUM SAND WITH SILT & ROOT, DRY-TAN	SP		3.5			
	FINE TO MEDIUM SAND WITH ROCK, MOIST-BROWN GRAY						
3.0	FINE TO COARSE SAND, WET-GRAY			0.9			FAINT
7.5	FINE TO MEDIUM SAND, WET-GRAY			-3.6	A	RESIDUAL-1" SEAMS	MODERATE/STRONG
							FAINT
10.0	FINE TO COARSE SAND, WET-GRAY			-6.1		RESIDUAL-0.2' SEAMS	STRONG
12.0	FINE TO MEDIUM SAND, WET-TAN TO BROWN			-8.1		RESIDUAL	MODERATE/STRONG
14.6	PEATY CLAY, WET-BROWN	CL/PT		-10.7			
14.8	FINE SAND, WET-DARK BROWN	SP		-10.9		PUMPABLE	STRONG
15.8	CLAYEY PEAT, MOIST-DARK BROWN	PT/CL		-11.9	B		FAINT
16.0	BOTTOM OF BORING @ 16.0 FT.			-12.1			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900792.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-10** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

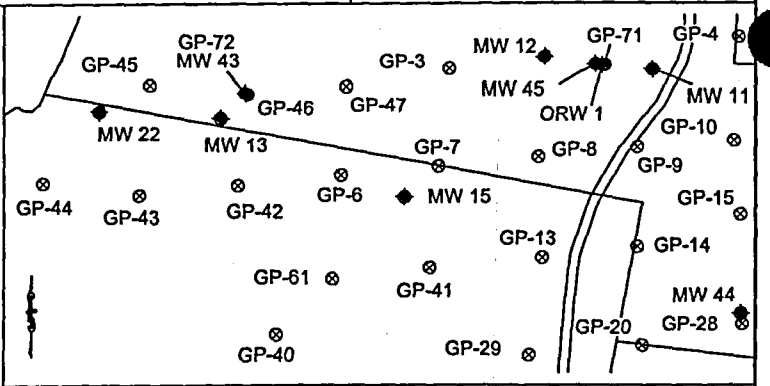
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/2/00 **Finished:** 11/2/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 3.4± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
0.6	FINE TO MEDIUM SAND WITH SILT & ROOT, DRY-BROWN	SP		2.8			
	FINE TO MEDIUM SAND WITH ROCK, MOIST-BROWN GRAY					RESIDUAL-SEAMS	
3.0	FINE TO COARSE SAND, WET-GRAY, 1" CLAY SEAM @ 7.3-7.4'			0.4			FAINT/MODERATE
						RESIDUAL-SEAM	
					A		MODERATE/STRONG
						PUMPABLE	
14.6	LEAN CLAY	CL		-11.2			
15.1	FINE TO COARSE SAND, WET-TAN GRAY	SP		-11.7			FAINT
15.8				-12.4	B		
16.0	CLAYEY PEAT/PEATY CLAY, MOIST-DARK GRAY	PT/CL		-12.6			
	BOTTOM OF BORING @ 16.0 FT.						

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900792.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-11** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

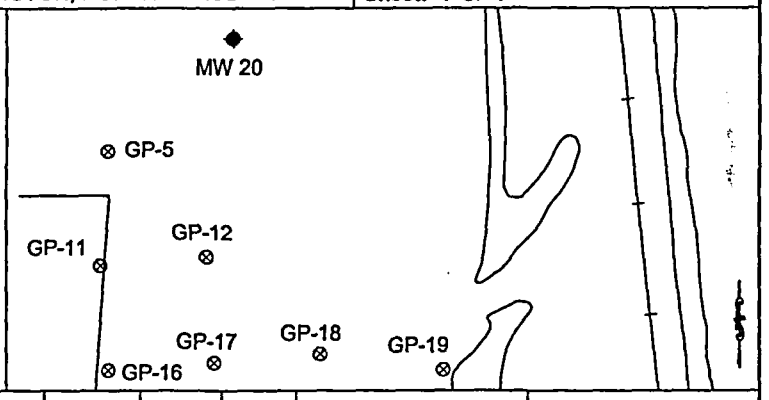
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/2/00 **Finished:** 11/2/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 3.6± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRATUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
0.5	FINE SAND WITH SILT, DRY-TAN	SP		3.1			
1.0	ROTTED WOOD - NON-TREATED			2.6			
	FINE TO MEDIUM SAND, MOIST-TAN TO BROWN	SP					
3.4				0.2			
3.6	ROCK & SAND SEAM			0.0			
	FINE TO COARSE SAND, WET-GRAY				A		FAINT
11.0	FINE TO MEDIUM SAND, WET-GRAY			-7.4			VERY FAINT
15.0	CLAYEY PEAT/PEATY CLAY, MOIST-DARK BROWN	PT/CL		-11.4	B		
16.0	BOTTOM OF BORING @ 16.0 FT.			-12.4			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900794.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-12** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

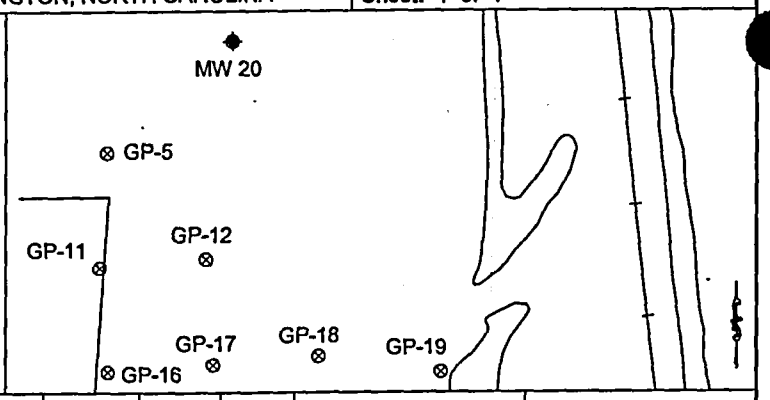
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/2/00 **Finished:** 11/2/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 2.8± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
0.4	FINE SAND WITH SILT & ROOT, MOIST-DARK BROWN	SP		2.4			
1.2	FINE TO COARSE SAND & ROCK, MOIST-GRAY TO BROWN			1.6			
	FINE TO COARSE SAND, WET-GRAY, WITH TREATED TIMBER 3.4-3.7'						MODERATE
					A		
11.7	LEAN CLAY, MOIST/WET-GRAY	CL		-8.9			
11.9	FINE SAND WITH SILT, WET-GRAY	SP		-9.1			
12.3	LEAN CLAY WITH PEAT	CL		-9.5			
14.0	PEATY LEAN CLAY/CLAYEY PEAT	CL/PT		-11.2	B		
16.0	BOTTOM OF BORING @ 16.0 FT.			-13.2			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900794.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-13** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

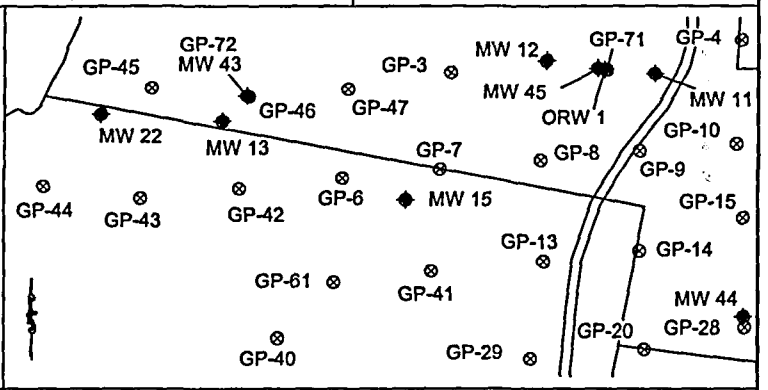
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/2/00 **Finished:** 11/2/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 3.1± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRATUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
0.4	FINE SAND WITH SILT & ROOT, MOIST-DARK BROWN	SP		2.7			
1.0		SC		2.1			
	CLAYEY SAND WITH ROCK (BRICK), MOIST-RED BROWN (FILL)	SP					
2.5	FINE TO COARSE SAND WITH ROCK (FILL)			0.6			
	FINE TO COARSE SAND, WET-DARK GRAY					MINIMAL RESIDUAL-SEAMS	FAINT/MODERATE
5.8				-2.7			
6.0	FINE TO COARSE SAND, WET-BROWN TO DARK BROWN			-2.9	A	RESIDUAL	STRONG
6.3		CL		-3.2			
6.4	VERY FINE TO FINE SAND, WET-GRAY	SP		-3.3			FAINT/MODERATE
8.0	SANDY LEAN CLAY, MOIST TO WET			-4.9			
	FINE TO COARSE SAND, WET-GRAY					RESIDUAL	MODERATE/STRONG
9.2	FINE TO MEDIUM SAND, WET-BROWN GRAY STAINING	CL		-6.1			FAINT/MODERATE
9.4	LEAN CLAY WITH FINE SAND	SP		-6.3			
	FINE TO COARSE SAND, WET-GRAY						FAINT
12.6	LEAN CLAY WITH PEAT, DARK BROWN	CL		-9.5	B		
15.0	CLAYEY PEAT, MOIST-DARK BROWN	PT/CL		-11.9			
16.0	BOTTOM OF BORING @ 16.0 FT.			-12.9			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900792.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-14** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

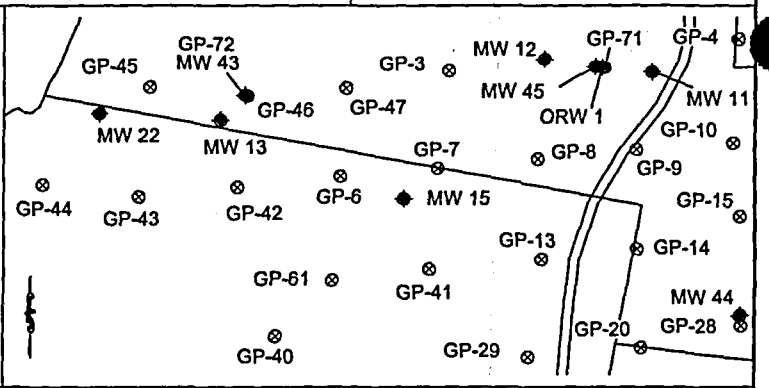
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/2/00 **Finished:** 11/2/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 3.5± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRATUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
0.5	FINE SAND WITH SILT & ROOT, DRY-TAN	SP		3.0			
1.8	SILTY FINE SAND, DRY-DARK BROWN			1.7			FAINT
2.2	VERY FINE TO FINE SILTY SAND, MOIST-LT. BROWN			1.3			MODERATE
2.6		CL		0.9			FAINT
2.8	FINE TO COARSE SAND WITH ROCK, MOIST-DARK BROWN	SP		0.7			
	LEAN CLAY, MOIST-GRAY					RESIDUAL	MODERATE/STRONG
	FINE TO COARSE SAND, WET-DARK GRAY						
6.0				-2.5			
6.4	FINE TO MEDIUM SAND, WET-DARK GRAY			-2.9			
6.8		CL		-3.3			
7.4	FINE SANDY LEAN CLAY, WET-GRAY			-3.9	A		
	LEAN CLAY, MOIST-GRAY	SP					
	FINE TO COARSE SAND, WET-GRAY						FAINT
10.2				-6.7			
	PEATY CLAY, MOIST-DARK BROWN	PT/CL					
10.9				-7.4			
	FINE TO COARSE SAND, WET-GRAY, BECOMING DARK BROWN @ 12-14.5	SP					FAINT/MODERATE
						PUMPABLE	STRONG
14.5				-11.0			
14.9	LEAN CLAY, MOIST-DARK BROWN	CL		-11.4			FAINT
	PEATY LEAN CLAY/CLAYEY PEAT	CL/PT			B		
16.0				-12.5			
	BOTTOM OF BORING @ 16.0 FT.						

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900792.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-15** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

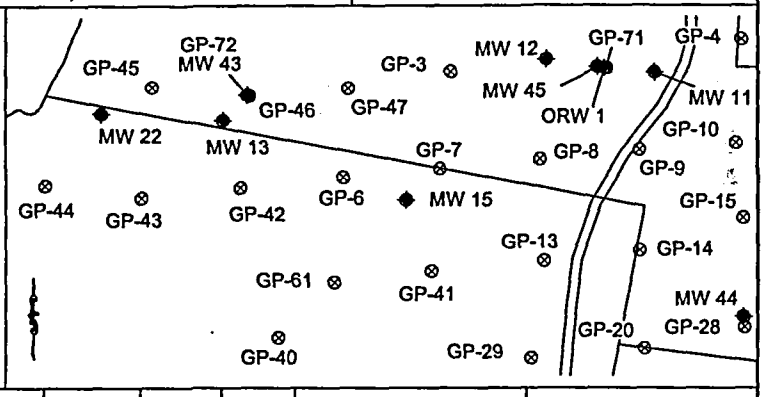
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/2/00 **Finished:** 11/2/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 2.9± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
0.7	FINE SAND WITH SILT & ROOT, MOIST-LT. BROWN	SP		2.2			
	FINE TO COARSE SAND WITH ROCK, MOIST-DARK GRAY TO GRAY						VERY FAINT DIESEL
3.4	FINE TO MEDIUM SAND, MOIST-DARK GRAY TO GRAY			-0.5			FAINT
					A	RESIDUAL-1" SEAM	
						PUMPABLE	STRONG
11.4	FINE SAND WITH CLAY, MOIST-DARK GRAY			-8.5			MODERATE
13.0	LEAN CLAY, MOIST-GRAY	CL		-10.1			
14.0	PEATY LEAN CLAY/CLAYEY PEAT	CL/PT		-11.1	B		
16.0	BOTTOM OF BORING @ 16.0 FT.			-13.1			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900792.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-16** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

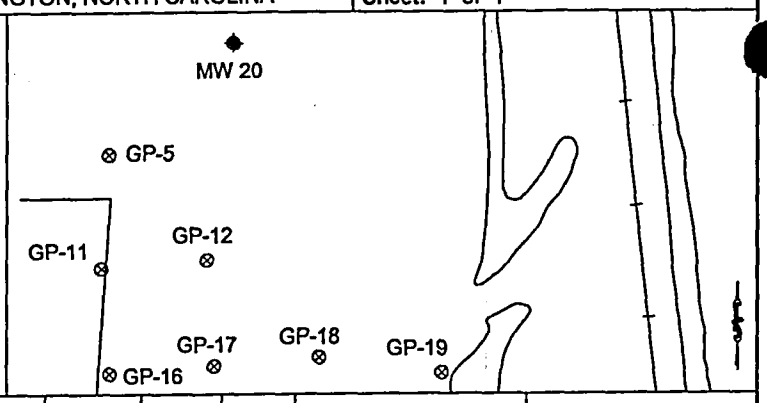
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/3/00 **Finished:** 11/3/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 2.6± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
0.4	FINE SAND WITH SILT & ROOT, MOIST-BROWN	SP		2.2			
	FINE TO COARSE SAND & ROCK, MOIST-BLACK (FILL)						
2.5	FINE TO COARSE SAND WITH CLAY BALLS @ 4.9 & 5.4', FROM 7.0-11.3' INTERMITTENT SAND SEAMS FINE TO COARSE/FINE TO MEDIUM			0.0	A		FAINT/MODERATE
						RESIDUAL-SEAMS	
11.3				-8.8			
11.5	INTERMITTENT SEAMS FINE SAND & LEAN CLAY	SP		-8.9			
11.7	VERY FINE TO FINE SAND, WET-GRAY	CL/PT		-9.2			FAINT
14.0	PEATY LEAN CLAY, MOIST-GRAY, WOOD, ROOTS, NON-TREATED			-11.5	B		
	CLAYEY PEAT/PEATY CLAY, MOIST-DARK BROWN						
16.0	BOTTOM OF BORING @ 16.0 FT.			-13.5			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900794.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-17** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

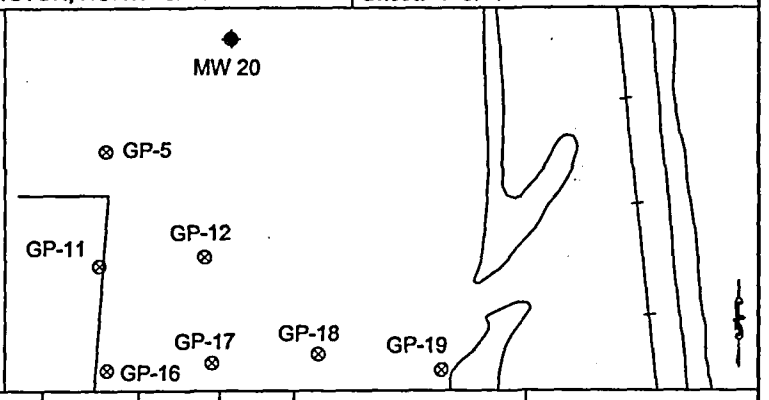
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/3/00 **Finished:** 11/3/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 2.8± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRATUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
0.7	FINE TO MEDIUM SAND WITH SILT & ROOT, MOIST-TAN	SP		2.1			
1.5	FINE TO COARSE SAND WITH ROCK, MOIST-BLACK (FILL)			1.3			
	FINE SAND, WET-WHITE & TAN						FAINT
3.5				-0.7			
3.7	LEAN CLAY, MOIST-DARK GRAY	CL		-0.9			
4.0	CEMENTED VERY FINE TO FINE SAND, GRAY	SP		-1.2			
	FINE TO MEDIUM SAND, WET-GRAY						
6.0				-3.2			
6.5	DECOMPOSED TIMBER - TREATED			-3.7		RESIDUAL	STRONG
	FINE TO COARSE SAND, WET-GRAY	SP			A		
						PUMPABLE	STRONG
13.5				-10.7			
13.7	VERY FINE TO FINE SAND, WET-GRAY TO GRAY BROWN	CL		-10.9			
14.8	LEAN CLAY, MOIST-DARK BROWN			-12.0	B		FAINT/MODERATE
	PEAT/CLAYEY PEAT, MOIST-DARK BROWN	PT/CL					
16.0	BOTTOM OF BORING @ 16.0 FT.			-13.2			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900794.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-18** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

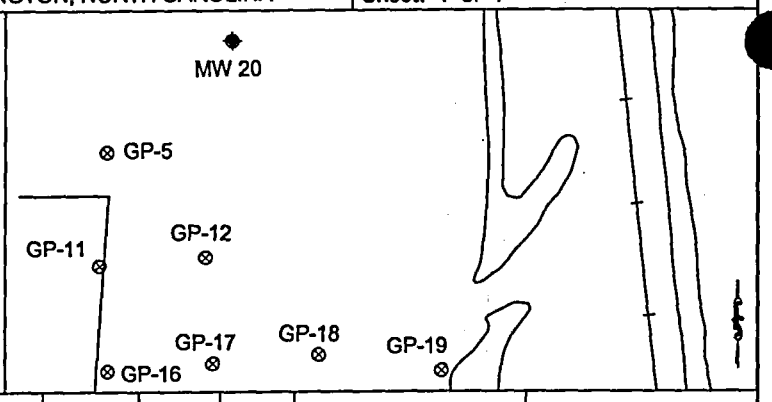
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/3/00 **Finished:** 11/3/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 2.2± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRATUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
	FINE SAND WITH SILT & ROOT, MOIST-DARK BROWN	SP					FAINT
1.2				1.0			
	FINE SANDY LEAN CLAY, MOIST-DARK GRAY	SC					
2.0				0.2			
	FINE TO MEDIUM SAND, MOIST-GRAY	SP					FAINT
2.9				-0.7			
3.1	FINE SANDY LEAN CLAY, DARK GRAY	SC		-0.9			
	FINE TO MEDIUM SAND, WET-GRAY	SP			A	SHEEN	FAINT/MODERATE
7.4				-5.2			
8.0	WOOD - NON-TREATED			-5.8			
	LEAN CLAY, MOIST-DARK BROWN	CL					
9.0				-6.8			
	CLAYEY PEAT, MOIST-DARK BROWN	PT/CL			B		
12.0				-9.8			
	BOTTOM OF BORING @ 12.0 FT.						

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900794.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-19** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

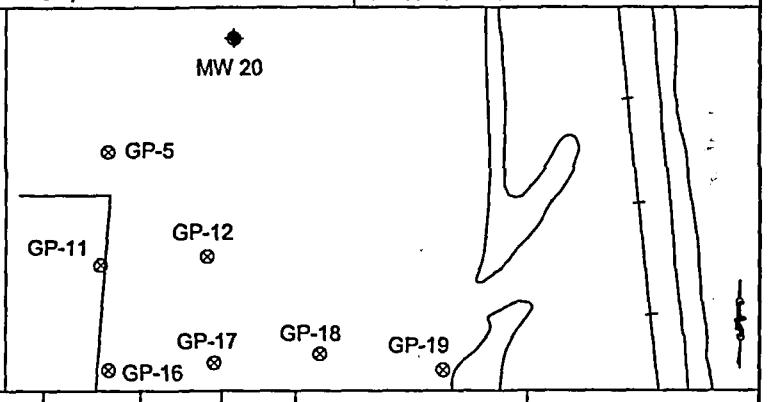
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/3/00 **Finished:** 11/3/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 2.0± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
	FINE SAND WITH SILT & ROOT, MOIST-TAN	SP					
1.0	FINE TO MEDIUM SAND, MOIST-GRAY TO TAN			1.0	A		
8.5	FINE SAND, WET-GRAY			-6.5			
9.5	PEATY LEAN CLAY, DARK GRAY	PT/CL		-7.5	B		
9.7	LEAN CLAY, MOIST-DARK GRAY	CL		-7.7			
10.0	CLAYEY PEAT, MOIST-DARK GRAY	CL/PT		-8.0			
10.9	FINE SAND, WET-GRAY	SP		-8.9			
11.2	CLAYEY PEAT, MOIST-DARK BROWN	CL/PT		-9.2			
12.0	BOTTOM OF BORING @ 12.0 FT.			-10.0			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900794.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-20** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

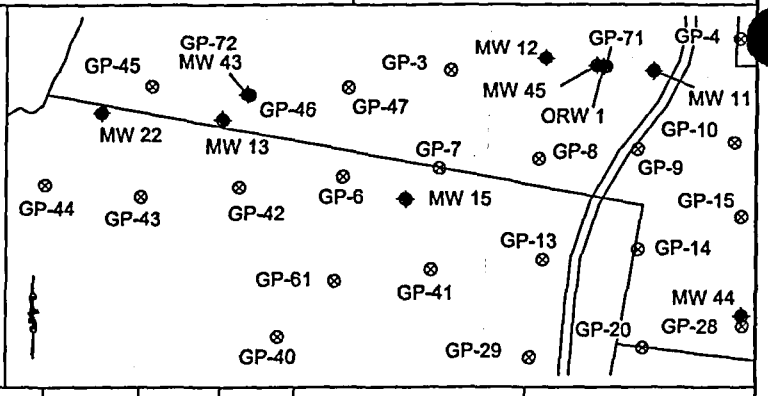
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/3/00 **Finished:** 11/3/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 3.1± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRATUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
0.7	FINE SAND WITH SILT & ROOT, MOIST-GRAY	SP		2.4			
1.0	FINE SAND, MOIST-TAN	FILL		2.1			
1.8	CHARRED/DECOMPOSING WOOD, BLACK	CL/PT		1.3			
2.1	CLAYEY PEAT, MOIST-DARK BROWN	SP		1.0			
	FINE TO MEDIUM SAND, MOIST-GRAY					RESIDUAL	STRONG
5.8				-2.7			
6.1	SILTY FINE SAND WITH LEAVES & OTHER ORGANICS			-3.0	A		FAINT
6.8	FINE SAND, WET-GRAY	CL/PT		-3.7			
7.0	CLAYEY PEAT, MOIST-DARK GRAY	SP		-3.9			
7.3	FINE SAND WITH ORGANICS, WET-BLACK	SC		-4.2			
8.6	CLAYEY FINE SAND/FINE SANDY CLAY, WET-DARK BROWN GRAY	SP		-5.5		PUMPABLE	STRONG
9.0	VERY FINE TO FINE SAND, WET-DARK BROWN GRAY	SC		-5.9			
9.4	CLAYEY FINE SAND/FINE SANDY CLAY, WET-DARK BROWN GRAY	SP		-6.3			
10.2	VERY FINE TO FINE SAND, WET-DARK BROWN GRAY	SC		-7.1			
11.0	CLAYEY FINE SAND/FINE SANDY CLAY, WET-DARK BROWN GRAY	SP		-7.9			
11.6	VERY FINE TO FINE SAND, WET-DARK BROWN GRAY	SC		-8.5		RESIDUAL	
12.6	FINE SANDY CLAY, WET-DARK BROWN GRAY	CL/PT		-9.5			MODERATE
	FINE SAND, WET-BROWN GRAY				B		
	FINE TO COARSE CLAYEY SAND, WET-DARK BROWN & GRAY						
16.0	CLAYEY PEAT/PEATY CLAY, MOIST-DARK BROWN			-12.9			
	BOTTOM OF BORING @ 16.0 FT.						

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900792.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-21** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

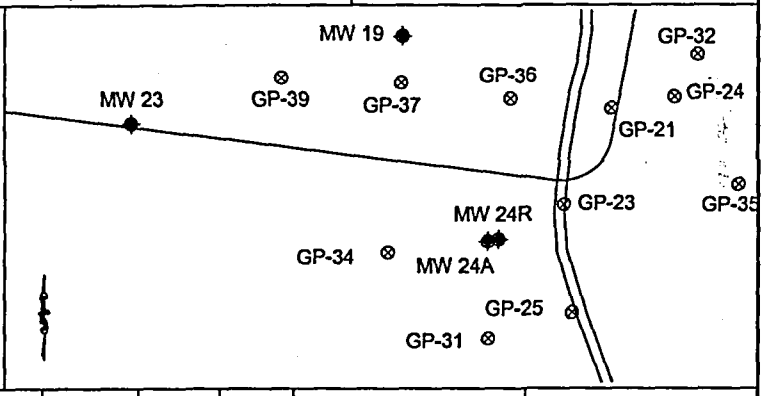
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/3/00 **Finished:** 11/3/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 2.7± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRATUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
0.2	FINE SAND WITH SILT, MOIST-DARK BROWN	SP		2.5			
0.7	FINE SAND, MOIST-TAN			2.0			
	WOOD, MOIST-BLACK, LAYERED PLYWOOD/BARK						FAINT
4.6	VERY FINE TO FINE SAND, WET-DARK GRAY	SP		-1.9	A		
6.0	VERY FINE TO FINE SAND WITH CLAY SEAM 7.3-7.4'			-3.3		RESIDUAL-SEAMS	STRONG
8.0	DECOMPOSED TIMBER, WET-BLACK			-5.3			
8.8	VERY FINE TO FINE SAND, WET-BLACK	SP		-6.1			MODERATE
9.8	LEAN CLAY WITH ROOT, MOIST-DARK GRAY	CL		-7.1			
10.3		SP		-7.6			
10.4	FINE TO MEDIUM SAND, MOIST-TAN	PT/CL		-7.7	B		
11.1	PEATY LEAN CLAY, MOIST-DARK BROWN	CL/PT		-8.4			
12.0	CLAYEY PEAT, MOIST-DARK BROWN			-9.3			
	BOTTOM OF BORING @ 12.0 FT.						

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-22** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

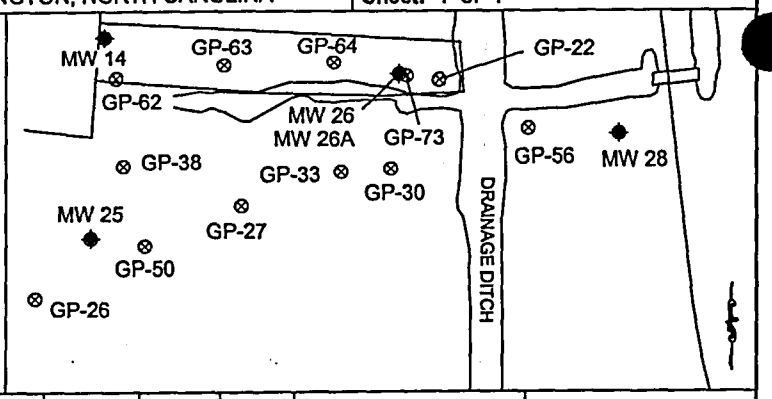
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/3/00 **Finished:** 11/3/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 2.0± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
0.2	FINE SAND WITH SILT & ROOT, MOIST-DARK BROWN	SP		1.8			
	FINE SAND, MOIST-TAN & BROWN						
3.0	SILTY VERY FINE TO FINE SAND WITH SILT, MOIST-DARK BROWN			-1.0	A		
8.2	FINE SAND, WET-LT. BROWN			-6.2			
9.8	VERY FINE TO FINE SAND WITH SILT, MOIST-DARK BROWN & TAN			-7.8			
14.0				-12.0			
14.4	CLAYEY PEAT, MOIST-DARK BROWN	PT/CL		-12.4			
14.8	LEAN CLAY, MOIST-DARK BROWN	CL		-12.8	B		
	CLAYEY PEAT, MOIST-DARK BROWN	PT/CL					
16.0	BOTTOM OF BORING @ 16.0 FT.			-14.0			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-23** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

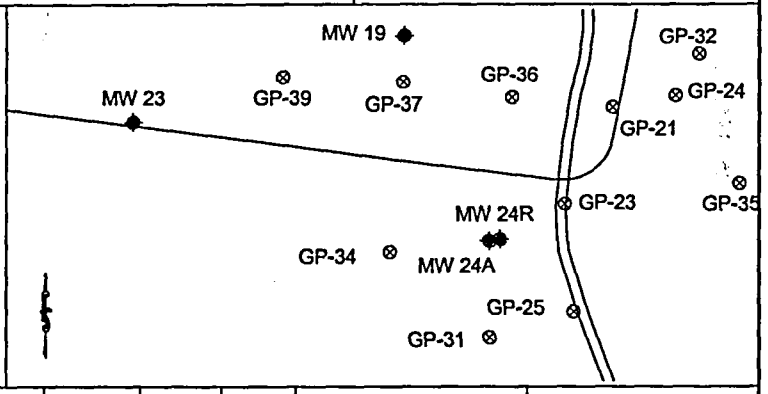
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/3/00 **Finished:** 11/3/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 3.8± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
	FINE TO COARSE SAND WITH CLAY, ROCK & BRICK (FILL)	SP					
1.5				2.3			
1.7	CLAYEY SAND, MOIST-GRAY & TAN	SC		2.1			
2.4	VERY FINE TO FINE SAND, MOIST-GRAY	SP		1.4			
	FINE TO COARSE SAND, WET-GRAY WITH CLAY SEAMS @ 6.6-6.7' & 6.9-7.1' AND PEAT SEAM @ 7.4-7.5'				A		FAINT
7.5				-3.8			
7.7	VERY FINE TO FINE SAND, WET-GRAY	PT		-4.0			
	PEAT WITH CLAY, MOIST-DARK BROWN						
9.5	LEAN CLAY, MOIST-GRAY	CL		-5.8			
10.5				-6.8			
	FINE TO COARSE SAND, WET-DARK GRAY	SP				RESIDUAL-FEW 1/4" SEAMS	MODERATE/STRONG
11.7				-8.0			
12.0	CLAYEY PEAT, MOIST-DARK BROWN BOTTOM OF BORING @ 12.0 FT.	PT/CL		-8.3	B		

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900793.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-24** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

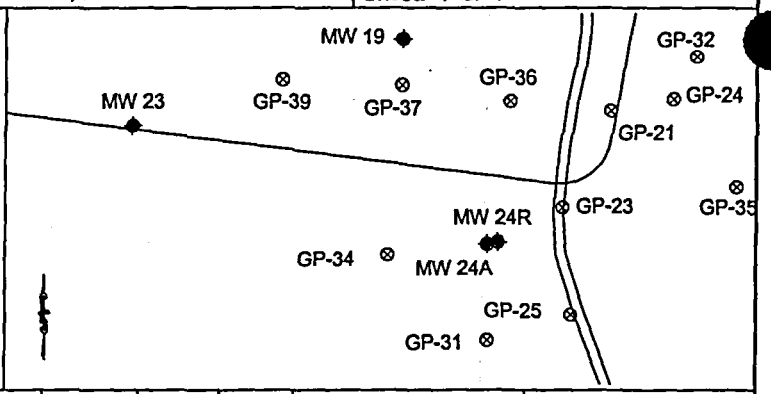
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/3/00 **Finished:** 11/3/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 1.8± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
0.4	PEAT & ORGANICS, MOIST-DARK BROWN	PT		1.4			
0.6		SP		1.2			
0.8	VERY FINE TO FINE SAND WITH ROOT, MOIST-BROWN			1.0			
	LAYER OF SEA OATS						
3.0	FINE SAND WITH ROOT, MOIST-TAN WHITE	PT/CL		-1.3			
3.5				-1.8			
3.9	CLAYEY PEAT, MOIST-DARK BROWN	CL		-2.2			
	LEAN CLAY WITH ROOT, MOIST-DARK BROWN	SP			A	SHEEN	MODERATE/STRONG
	FINE TO COARSE SAND, WET-BROWN GRAY						
6.5	PEATY CLAY, MOIST-DARK BROWN	CL/PT		-4.8			FAINT
8.9	FINE TO COARSE SAND WITH ROOT, WET-BROWN GRAY	SP		-7.2		SHEEN	
10.0	PEAT WITH CLAY, MOIST TO WET-DARK BROWN	PT		-8.3	B		MODERATE
20.0	BOTTOM OF BORING @ 20.0 FT.			-18.3			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900793.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-25** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

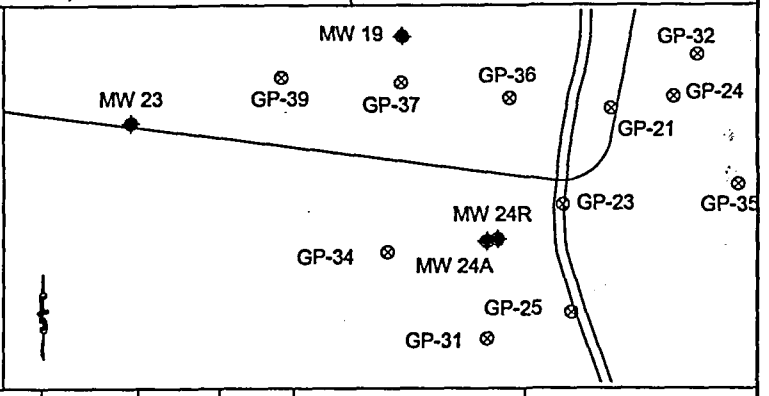
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/3/00 **Finished:** 11/3/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 3.3± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRATUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
0.4	FINE SAND WITH SILT & ROOT, MOIST-BROWN	SP		2.9			
0.5	CONCRETE (FILL)			2.8			
0.8	FINE SAND, MOIST-TAN			2.5			
1.5	FINE TO COARSE SAND WITH ROCK & BRICK (FILL)			1.8			
	FINE TO MEDIUM SAND, MOIST-TAN						
4.8	FINE TO COARSE SAND, WET-GRAY WITH CLAY SEAMS @ 7.5-7.6' & 11.5-11.7'			-1.5	A		
14.5	PEATY LEAN CLAY, MOIST-DARK BROWN	CL/PT		-11.2		1/8" SHEEN	
15.0	CLAYEY PEAT, MOIST-DARK BROWN	PT/CL		-11.7	B		
16.0	BOTTOM OF BORING @ 16.0 FT.			-12.7			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900793.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-26** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

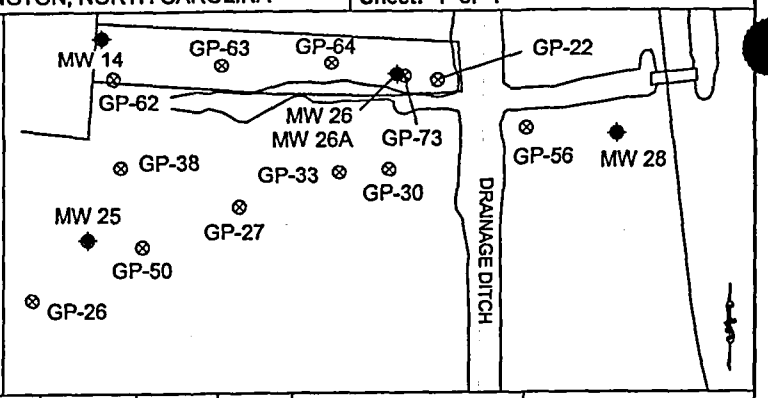
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/3/00 **Finished:** 11/3/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 1.4± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
	NO SAMPLE RECOVERY, TOO WET/SOFT FOR RECOVERY, ORGANICS/PEAT, VERY FINE TO FINE SAND	PT			A		
14.5	LEAN CLAY, WET-GRAY	CL		-13.1	B		
15.0	CLAYEY PEAT/PEAT, WET-BROWN	CL/PT		-13.6			
16.0	BOTTOM OF BORING @ 16.0 FT.			-14.6			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-27** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

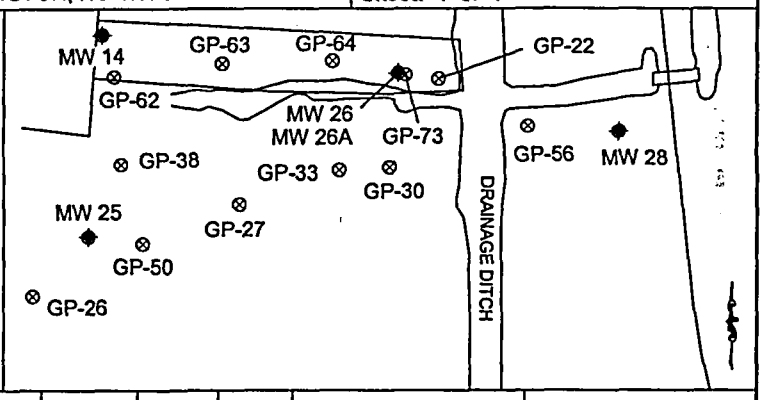
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/4/00 **Finished:** 11/4/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 1.7± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
	PEAT WITH SEA OATS, MOIST	PT					
1.5	LEAN CLAY, WET-BROWN GRAY	CL		0.2			
2.5	PEAT WITH CLAY, WET-DARK BROWN	PT		-0.8			
8.1	CLAYEY PEAT, WET-DARK BROWN	PT/CL		-6.4	A		
16.0	BOTTOM OF BORING @ 16.0 FT.			-14.3			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900795.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-28** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

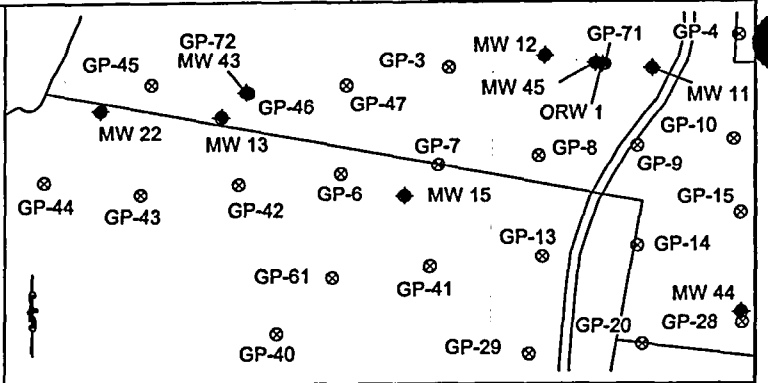
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/4/00 **Finished:** 11/4/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 1.2± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
0.2	PEAT, MOIST-DARK BROWN	PT		1.0			
0.8	FINE SAND, MOIST-LT. GRAY	SP		0.4			
	FINE TO COARSE SAND, WET-TAN TO BROWN (FILL)						FAINT
					A		MODERATE
7.0	FINE SAND, WET-GRAY, PEAT SEAM @ 11.0-11.4'			-5.8		RESIDUAL	
						PUMPABLE	STRONG
12.0	CLAYEY PEAT, MOIST-DARK BROWN	PT/CL		-10.8			FAINT
					B		
14.5	PEATY LEAN CLAY WITH WOOD/ROOT, MOIST-DARK BROWN	CL/PT		-13.3			
16.0	BOTTOM OF BORING @ 16.0 FT.			-14.8			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900792.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-29** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

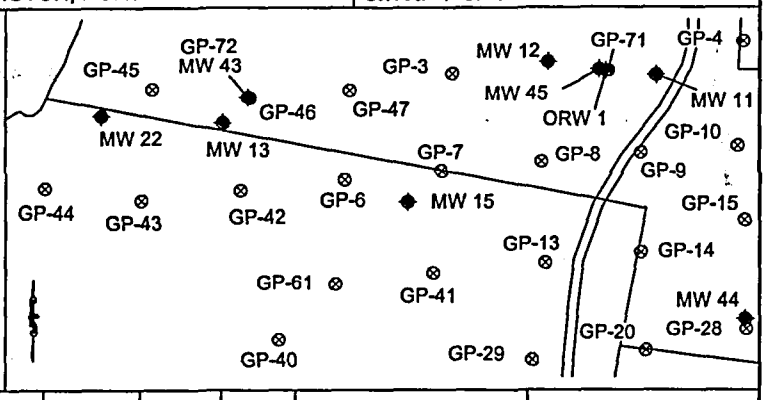
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/4/00 **Finished:** 11/4/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 2.9± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
0.5	SANDY PEAT WITH ROOT, MOIST-DARK BROWN	PT		2.4			
	FINE TO COARSE SAND WITH ROCK & CLAY (FILL), MOIST-BROWN & TAN	SP					
3.4	FINE TO COARSE SAND, CLAY SEAMS @ 3.4-3.6' & 3.9-4.0', WET-GRAY			-0.5	A		
13.5	INTERMITTANT SEAMS OF FINE SAND & LEAN CLAY, MOIST-DARK GRAY			-10.6			
14.6	CLAYEY PEAT/PEATY CLAY, MOIST-DARK BROWN	CL/PT		-11.7	B		
16.0	BOTTOM OF BORING @ 16.0 FT.			-13.1			

Comments:
1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900792.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-30** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

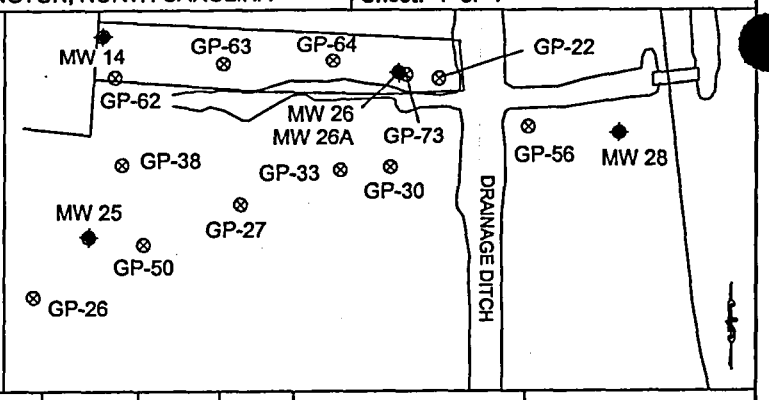
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/4/00 **Finished:** 11/4/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 1.4± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
	LEAN CLAY WITH ROOT, WET-DARK GRAY	CL					
1.5	CLAYEY PEAT/PEATY CLAY, WET-DARK BROWN	CL/PT		-0.1	A		
16.0	BOTTOM OF BORING @ 16.0 FT.			-14.6			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900795.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-31** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

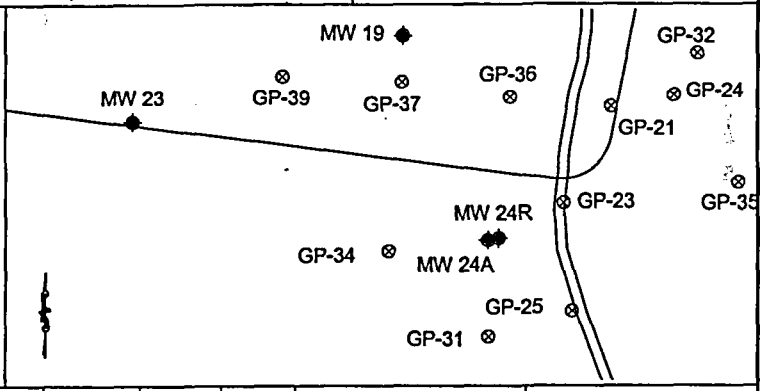
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/4/00 **Finished:** 11/4/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 5.0± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
	FINE SAND, MOIST @ 1.5-TAN	SP					
3.5				1.5			
3.8	FINE SAND WITH GRAVEL, MOIST-TAN			1.2			
	FINE TO COARSE SAND, WET-TAN						
7.1				-2.1			
7.4	ROCK/CEMENTED SHELL	CL		-2.4	A		
7.7	LEAN CLAY, MOIST-GRAY	SP		-2.7			
	FINE SAND, WET-GRAY						
10.0	LEAN CLAY, WET-DARK GRAY	CL		-5.0			
11.1				-6.1			FAINT
11.2	FINE TO MEDIUM SAND WITH ROOT & LEAVES	SP		-6.2			
	VERY FINE TO FINE SAND, WET-GRAY						VERY FAINT
15.6				-10.6			
15.8	PEATY LEAN CLAY	CL		-10.8	B		
16.0	LEAN CLAY, MOIST-DARK BROWN			-11.0			
	BOTTOM OF BORING @ 16.0 FT.						

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900793.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-32** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

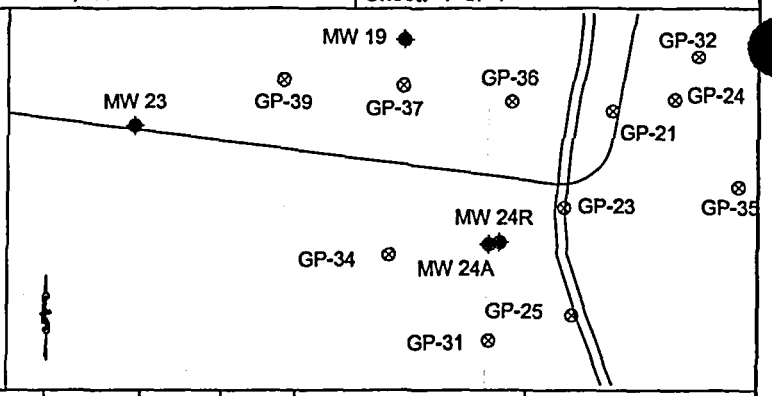
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/4/00 **Finished:** 11/4/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 2.4± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
0.4	FINE SAND WITH LEAF/ROOT, MOIST-DARK BROWN	SP		2.0			
1.0	SAND, WOOD TIMBER, MOIST-BLACK			1.4			
	VERY FINE TO FINE SAND WITH CLAY SEAM, WET-GRAY				A		
6.2				-3.8			
6.4	SANDY CLAY/CLAYEY FINE SAND WITH WOOD FRAGMENTS 4.25-4.35'	SC		-4.0		SHEEN	FAINT
6.8	CLAY WITH ROOT MAT, WET	CL		-4.4		RESIDUAL IN SAND SEAMS	MODERATE
7.8	LEAN CLAY WITH SAND SEAMS, MOIST-DARK GRAY BROWN	CL/PT		-5.4			
	CLAYEY PEAT/PEATY LEAN CLAY, MOIST-DARK BROWN						FAINT
14.0	PEAT			-11.6	B	RESIDUAL	STRONG
15.7	LEAN CLAY WITH ROOT TO PEATY LEAN CLAY, WET-DARK BROWN			-13.3			
20.0	BOTTOM OF BORING @ 20.0 FT.			-17.6			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900793.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-33** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

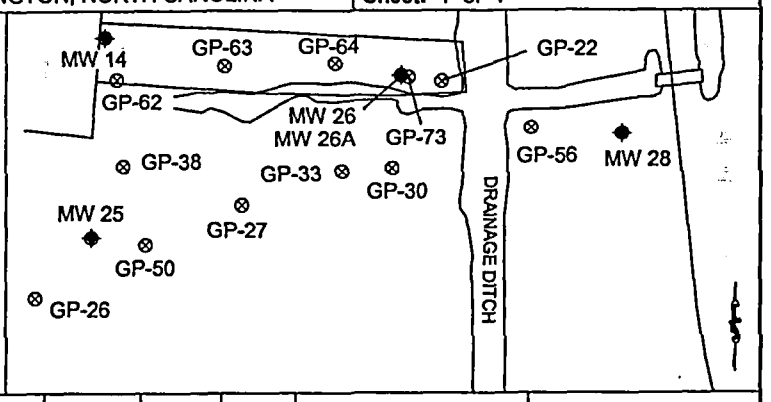
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/4/00 **Finished:** 11/4/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 1.3± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
	CLAYEY PEAT, WET-DARK BROWN	CL/PT			A		
15.0	LEAN CLAY, WET-DARK BROWN	CL		-13.7	B		
16.0	BOTTOM OF BORING @ 16.0 FT.			-14.7			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900795.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-34** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

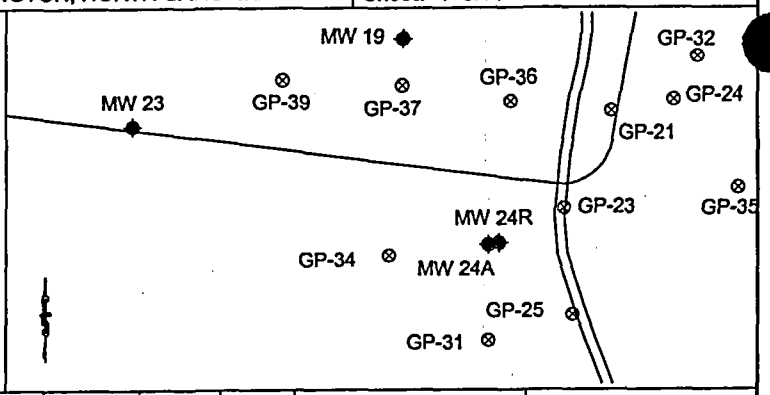
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/4/00 **Finished:** 11/4/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 4.3± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
0.6	FINE SAND WITH ROOT, DRY-GRAY TAN	SP		3.7			
	FINE SAND, MOIST-TAN						
3.6	INTERMITTANT SEAMS OF VERY FINE TO FINE SANDS & LEAN CLAY, MOIST-GRAY			0.7			
4.4	FINE TO MEDIUM SAND, WET-GRAY CLAY SEAM @ 15.3-15.4'			-0.1	A		
15.5	CLAYEY PEAT, MOIST-DARK BROWN	CL/PT		-11.2	B		
16.0	BOTTOM OF BORING @ 16.0 FT.			-11.7			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900793.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-35** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

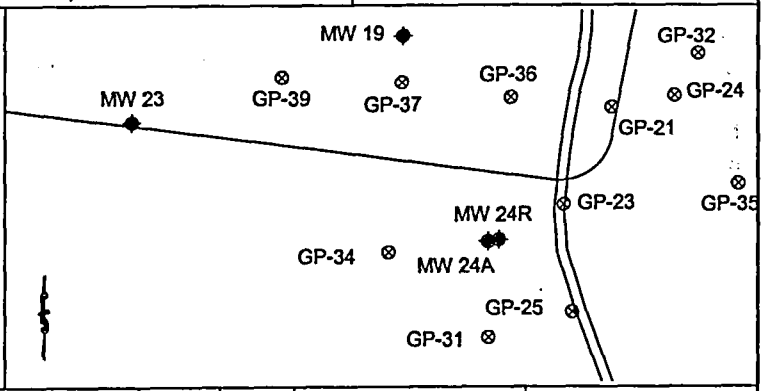
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/4/00 **Finished:** 11/4/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 1.5± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
	PEAT, WET-DARK BROWN	PT					
2.0	FINE TO COARSE SAND, WET-TAN TO GRAY, VERY FINE TO FINE SAND @ 3.5-4.2'	SP		-0.5			
4.2	PEAT, WET-DARK BROWN	PT		-2.7	A		
14.0	WOOD-STUMP			-12.5	B		
18.0	BOTTOM OF BORING @ 18.0 FT.			-16.5			

SWP DNAPL LOGS 97900793.GPJ GREG.GDT 10/5/01

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-36** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

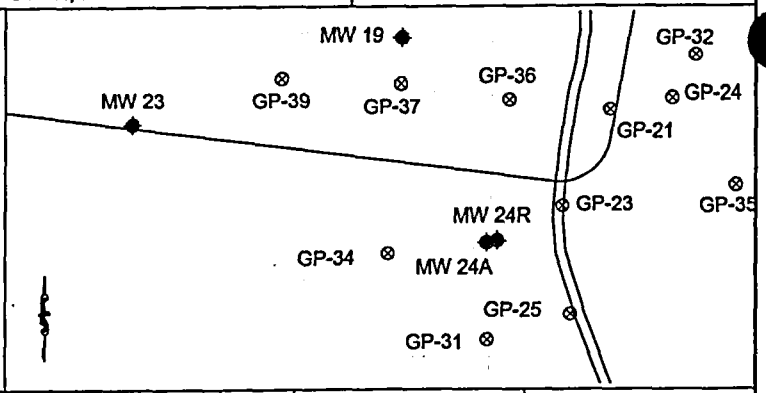
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/4/00 **Finished:** 11/4/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 4.0± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRATUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
0.5	FINE SAND WITH ROOT, DRY-TAN FINE SAND & WOOD (BARK)	SP		3.5			
2.2	FINE SAND, MOIST-LT. GRAY, CLAY SEAM @ 3.5-3.6'			1.8			
3.7	FINE TO COARSE SAND, WET-GRAY			0.3			FAINT
6.0	LEAN CLAY WITH SAND, SEAMS @ 6.2-6.4' & 6.7-6.8'	CL		-2.0		RESIDUAL IN SAND SEAMS	MODERATE/STRONG
7.0	FINE TO COARSE SAND, WET-GRAY BROWN	SP		-3.0	A		FAINT
15.7	PEAT, MOIST-DARK BROWN	PT		-11.7	B	RESIDUAL	MODERATE
16.0	BOTTOM OF BORING @ 16.0 FT.			-12.0			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900793.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-37** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

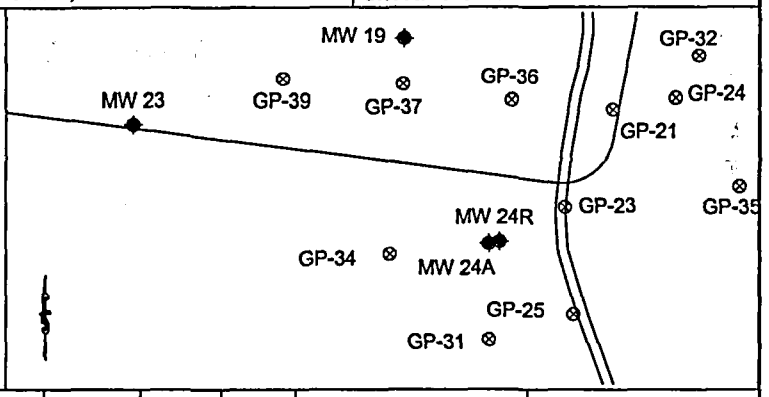
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/4/00 **Finished:** 11/4/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 2.9± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
0.4	FINE SAND WITH SILT, MOIST-DARK BROWN	SP		2.5			
	FINE TO MEDIUM SAND, WET-TAN & GRAY, CLAY SEAMS @ 2.0-2.1' & 2.5-2.6'						
3.0				-0.1			
3.4	FINE TO MEDIUM SAND WITH ORGANICS, WET-BROWN GRAY			-0.5		SHEEN	MODERATE
4.1	FINE TO COARSE SAND, WET-TAN			-1.2			FAINT
	FINE TO MEDIUM SAND, WET-BROWN GRAY					SHEEN	STRONG
5.8	FINE TO COARSE SAND, WET-TAN WITH VERY FINE SAND SEAM @ 7.2-7.3'			-2.9			
					A	SHEEN	MODERATE
14.7	LEAN CLAY WITH PEAT/PEATY LEAN CLAY, MOIST-DARK BROWN	CL/PT		-11.8	B		
16.0	BOTTOM OF BORING @ 16.0 FT.			-13.1			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900793.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-38** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

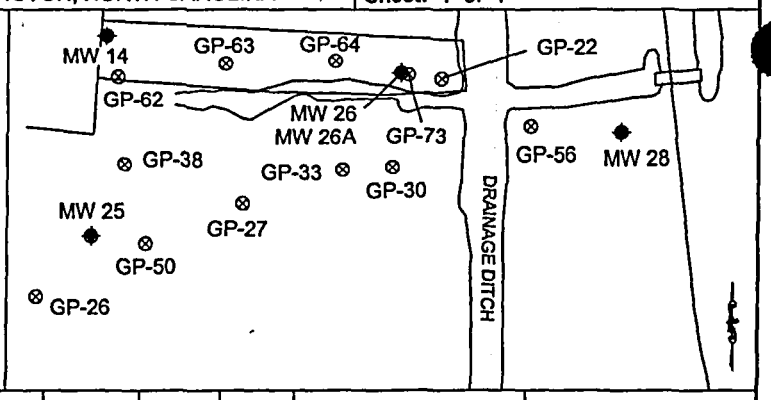
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/4/00 **Finished:** 11/4/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 1.5± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
	SILTY FINE SAND, MOIST-BROWN & TAN	SP					
1.0	PEAT, MOIST-DARK BROWN	PT		0.5			
2.0				-0.5			
2.4	CLAYEY ROOT MAT, MOIST-DARK GRAY	PT/CL		-0.9		SHEEN	MODERATE
3.0		CL		-1.5			FAINT
3.6	LEAN CLAY, MOIST, DARK GRAY	PT/CL		-2.1			
4.1	CLAYEY PEAT, MOIST-DARK BROWN	PT		-2.6	A	SHEEN	MODERATE
	PEAT WITH ROOT MAT, WET-DARK BROWN	PT/CL					
	CLAYEY PEAT, WET-DARK BROWN						
8.2	PEAT WITH CLAY, WET-DARK BROWN	PT		-6.7	B	SHEEN	MODERATE
16.0	PEAT & WOOD	PT		-14.5			
20.0	BOTTOM OF BORING @ 20.0 FT.			-18.5			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900795.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-39** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

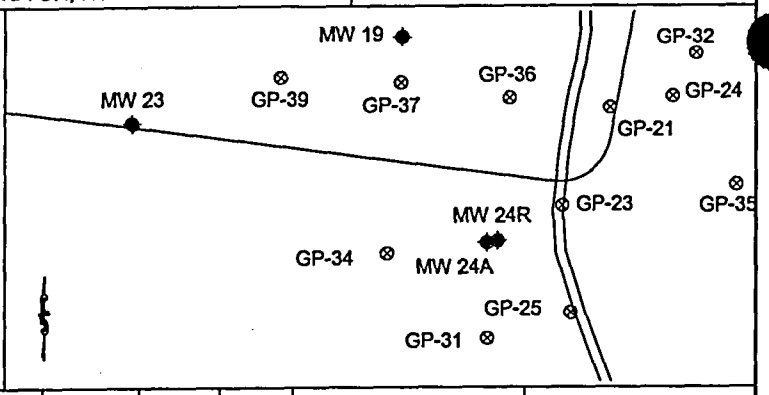
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/5/00 **Finished:** 11/5/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 3.2± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRATUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
0.7	FINE SAND WITH ROOT & ROCK (COAL), MOIST-BROWN TO BLACK, CLAY SEAM @ 0.6-0.7'	SP		2.5			
1.5	FINE TO MEDIUM SAND, MOIST-LT. GRAY			1.7			
3.0	CLAYEY VERY FINE TO FINE SAND, WET-DARK GRAY	CL		0.2			
3.9	LEAN CLAY, MOIST TO WET-DARK GRAY	SP		-0.7			
	FINE TO COARSE SAND, WET-LT. GRAY				A		
10.0	FINE TO MEDIUM SAND, WET-LT GRAY			-6.8			
13.8	PEAT WITH CLAY, MOIST-DARK BROWN	PT		-10.6			
14.7	LEAN CLAY, MOIST-DARK GRAY	CL		-11.5	B		
15.1	CLAYEY PEAT, MOIST-DARK BROWN	PT/CL		-11.9			
15.5	LEAN CLAY, MOIST-DARK BROWN	CL		-12.3			
15.8	CLAYEY PEAT, MOIST-DARK BROWN	PT/CL		-12.6			
16.0	BOTTOM OF BORING @ 16.0 FT.			-12.8			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900793.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-40** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

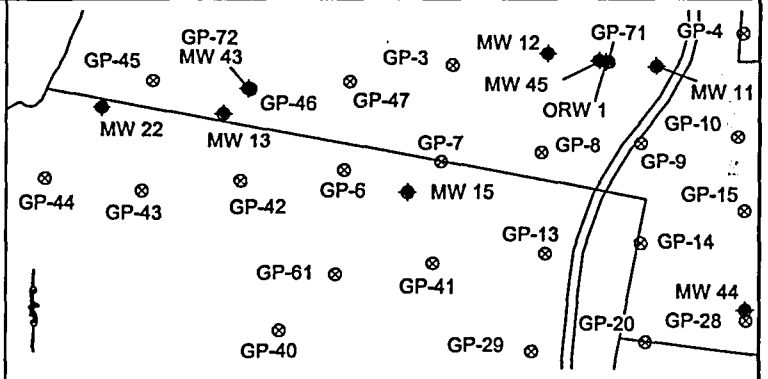
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/5/00 **Finished:** 11/5/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 3.0± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
	FINE SILTY SAND, MOIST-DARK BROWN	SP					
1.0	FINE TO COARSE SAND WITH CLAY, ROCK & WOOD (FILL)			2.0			
3.6	FINE TO COARSE SAND, WET-GRAY			-0.6			
5.0	LEAN CLAY, WET-GRAY	CL		-2.0			
5.8	FINE TO COARSE SAND, WET-TAN	SP		-2.8	A		
14.1	CLAYEY PEAT, WET-DARK BROWN	CL/PT		-11.1			
14.7	LEAN CLAY, WET-DARK GRAY	CL		-11.7	B		
15.2	CLAYEY PEAT, WET-DARK BROWN	CL/PT		-12.2			
16.0	BOTTOM OF BORING @ 16.0 FT.			-13.0			

Comments:
1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900792.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-41** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

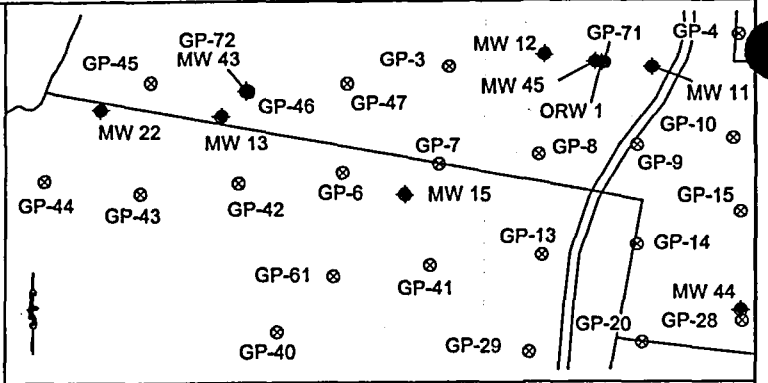
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/5/00 **Finished:** 11/5/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 3.2± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRATUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
0.5	FINE SAND WITH ROOT, MOIST-DARK BROWN	SP		2.7			
0.9	FINE TO MEDIUM SAND, MOIST-TAN			2.3			
1.1	FINE SAND, MOIST-DARK GRAY			2.1			
1.2	FINE SAND, MOIST-TAN & ORANGE WITH CLAY SEAM @ 1.2-1.3'			2.0			
3.0	FINE TO COARSE SAND, WITH BALLS OF BLACK CEMENTED SAND, WET-TAN			0.2			
3.7	SEAMS OF VERY FINE TO FINE SAND & LEAN CLAY, WET-GRAY	CL		-0.5			
4.2	LEAN CLAY, WET-DARK GRAY	SP		-1.0			
	FINE TO MEDIUM SAND WITH CLAY SEAM @ 7.1-7.2'				A		FAINT
9.3	FINE TO COARSE SAND WITH CLAY SEAMS @ 10.6-10.7', 11.2-11.3' & 11.5-11.6'			-6.1			FAINT
14.0	LEAN CLAY, WET-DARK GRAY	CL		-10.8			
14.2	CLAYEY PEAT, WET-DARK BROWN	CL/PT		-11.0	B		
16.0	BOTTOM OF BORING @ 16.0 FT.			-12.8			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900792.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-42** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

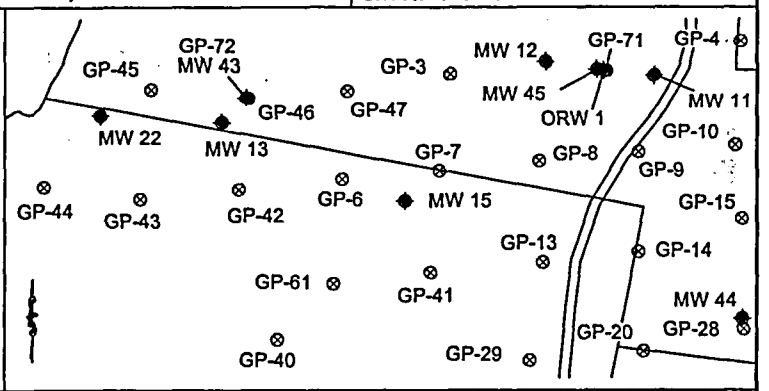
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/5/00 **Finished:** 11/5/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 3.0± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
	FINE SAND WITH ROOT, MOIST-DARK BROWN	SP					
1.0	FINE TO MEDIUM SAND, MOIST-TAN, ORANGE, GRAY			2.0			
3.0				0.0			
3.2	LEAN CLAY, MOIST-DARK GRAY	CL		-0.2			
	FINE TO COARSE SAND, WET-TAN GRAY	SP					
7.6				-4.6			
8.1	LEAN CLAY, WET-DARK GRAY	CL		-5.1	A		
	FINE TO COARSE SAND, WET-TAN	SP					
15.4				-12.4			
15.6	VERY FINE TO FINE CLAYEY SAND, WET-DARK GRAY	SC		-12.6	B		
15.7	LEAN CLAY, WET-DARK GRAY	CL		-12.7			
16.0	PEAT WITH CLAY, MOIST-DARK BROWN	PT		-13.0			
	BOTTOM OF BORING @ 16.0 FT.						

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900792.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-43** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

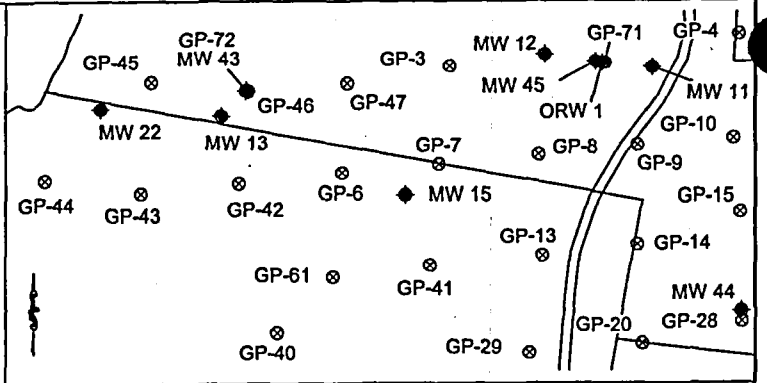
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/5/00 **Finished:** 11/5/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 2.8± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
0.5	FINE SAND WITH SILT & ROOT, MOIST-DARK BROWN	SP		2.3			
	FINE TO COARSE SAND, WET-TAN						
3.3				-0.5			
3.6	FINE TO MEDIUM SAND, WET-TAN GRAY	SC		-0.8			
3.8	VERY FINE TO FINE CLAYEY SAND, WET-GRAY	CL		-1.0			
3.9	LEAN CLAY, WET-DARK GRAY	SP		-1.1	A		
	FINE TO MEDIUM SAND, WET-TAN GRAY						
6.6	CLAYEY PEAT, WET-DARK BROWN	CL/PT		-3.8			
6.8	FINE TO COARSE SAND, WET-TAN	SP		-4.0			
9.4	CLAYEY PEAT, MOIST-DARK BROWN	CL/PT		-6.6	B		
12.0	BOTTOM OF BORING @ 12.0 FT.			-9.2			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900792.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-44** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

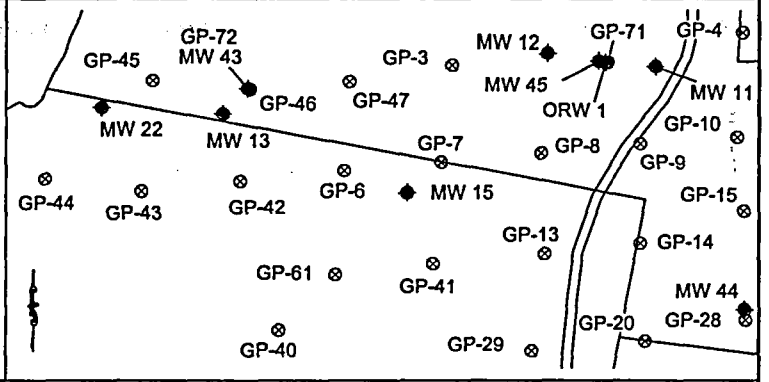
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/5/00 **Finished:** 11/5/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 2.9± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRATUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
	FINE SAND WITH ROOT, MOIST-BROWN	SP					
1.5	FINE TO COARSE SAND WITH CEMENTED SEAMS OF SAND, SHELL & ROCK (COAL), BLACK			1.4			
3.2	FINE CLAYEY SAND, WET-DARK GRAY	SC		-0.3			
3.5		SP		-0.6			
3.8	FINE TO COARSE SAND, WET-GRAY	CL		-0.9			
4.2	LEAN CLAY, MOIST-DARK GRAY	SP		-1.3			
	FINE TO COARSE SAND, WET-TAN GRAY, CLAY SEAM @ 10.1-10.2'				A		
10.5	CLAYEY FINE SAND, WET-DARK GRAY	SC		-7.6			
10.7	FINE TO MEDIUM SAND, WET-LT. GRAY	SP		-7.8			
19.5	CLAYEY PEAT, WET-DARK BROWN	CL/PT		-16.6	B		VERY FAINT
20.0	BOTTOM OF BORING @ 20.0 FT.			-17.1			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900792.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-45** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

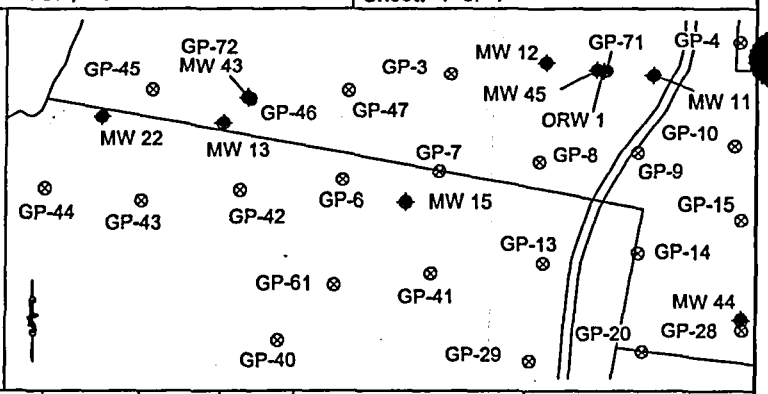
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/5/00 **Finished:** 11/5/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 3.0± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRATUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
0.6	FINE SAND WITH ROOT, MOIST-DARK BROWN	SP		2.4			
	FINE TO MEDIUM SAND, MOIST-TAN						
2.0	CLAYEY FINE TO MEDIUM SAND, WET-TAN GRAY	SC		1.0			FAINT
3.0				0.0			
3.1	LEAN CLAY, MOIST-DARK GRAY	CL		-0.1			MODERATE
3.7	FINE TO COARSE SAND, WET-BROWN GRAY	SP		-0.7			
4.1	VERY FINE TO FINE SAND, WET-GRAY			-1.1			
	FINE TO MEDIUM SAND, BECOMING COARSER @ 7.5', WET-TAN GRAY				A	SHEEN	
9.8	LAYERS OF FINE TO MEDIUM/FINE TO COARSE SANDS BECOMING LAYERS OF FINE TO MEDIUM/FINE/VERY FINE SANDS @ 13.0', WET-GRAY			-6.8		RESIDUAL-1" SEAMS	STRONG
15.0				-12.0			
15.1	LEAN CLAY, MOIST-DARK GRAY	CL		-12.1	B		
16.0	CLAYEY PEAT, MOIST-DARK BROWN	CL/PT		-13.0			
	BOTTOM OF BORING @ 16.0 FT.						

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900792.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-46** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

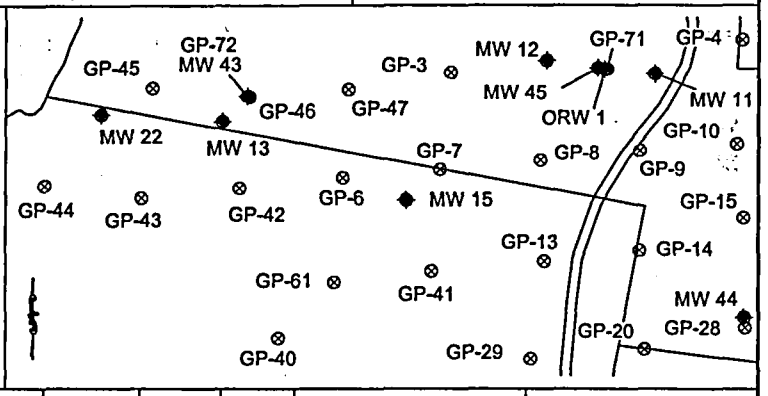
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/5/00 **Finished:** 11/5/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 3.2± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRATUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
0.5	FINE SAND WITH SILT & ROOT, MOIST-DARK BROWN	SP		2.7			
	FINE TO MEDIUM CLAYEY SAND, MOIST-TAN, ORANGE & GRAY	SC					
2.0	FINE TO MEDIUM SAND, MOIST-LT. BROWN	SP		1.2			
2.9				0.3			FAINT
3.1	FINE SAND, WET-BLACK TO DARK GRAY			0.1			STRONG
	FINE TO MEDIUM SAND, WET-BROWN GRAY					SHEEN	MODERATE
						RESIDUAL	STRONG
7.2				-4.0			FAINT
8.0	FINE TO COARSE SAND, WET-GRAY, CLAY BALL 8.8-8.9'			-4.8			
	MEDIUM SAND, WET-BROWN				A	PUMPABLE	STRONG
9.6				-6.4		RESIDUAL	
9.9	PEAT, MOIST-DARK BROWN	PT		-6.7			
10.2	SILT WITH TRACE SAND, MOIST-DARK BROWN	ML		-7.0			
10.4	LEAN CLAY, MOIST-DARK GRAY	CL		-7.2			
	FINE TO MEDIUM SAND, WET-TAN	SP				RESIDUAL	MODERATE
15.0	FINE TO MEDIUM SAND, WET-DARK BROWN			-11.8		PUMPABLE	STRONG
17.8	LEAN CLAY, MOIST-DARK BROWN	CL		-14.6			
18.1	PEAT WITH CLAY, MOIST-DARK BROWN	PT		-14.9	B		
20.0	BOTTOM OF BORING @ 20.0 FT.			-16.8			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900792.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-47** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

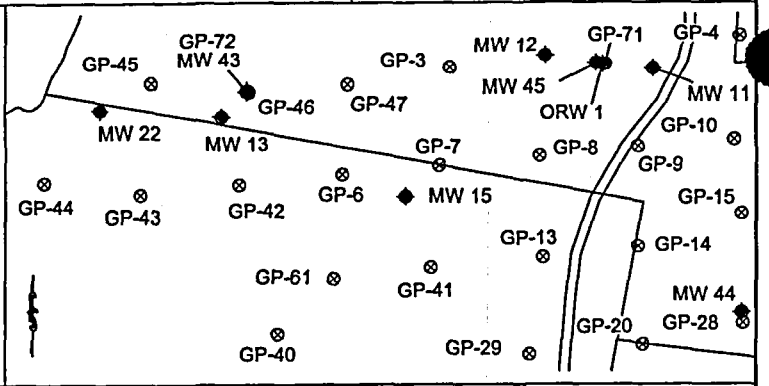
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/5/00 **Finished:** 11/5/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 3.2± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRATUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
	FINE SAND WITH ROOT, MOIST-DARK BROWN	SP					
1.5	FINE TO COARSE SAND, MOIST-TAN			1.7			
3.9				-0.8			
4.2	FINE CLAYEY SAND/SANDY CLAY, GRAY	SC		-1.1			
5.3	FINE TO COARSE SAND, WET-TAN TO GRAY	SP		-2.2			
6.0	FINE TO MEDIUM SAND, WET-GRAY	CL		-2.9			
6.8	LEAN CLAY WITH ROOT, WET-GRAY	SP		-3.7			
	FINE TO MEDIUM SAND, WET-GRAY				A		FAINT
11.0				-7.9		RESIDUAL-1/8" SEAMS	
11.7	FINE SAND, WET-GRAY			-8.6			
12.1	VERY FINE TO FINE SAND WITH LEAF, MOIST-GRAY			-8.9			
	FINE TO MEDIUM SAND, WET-GRAY TO GRAY BROWN					RESIDUAL	STRONG
						PUMPABLE	
15.3				-12.2			
15.6	VERY FINE TO FINE SAND WITH SILT, WET-LT. GRAY	CL		-12.5	B		FAINT
15.8	LEAN CLAY, MOIST-DARK GRAY	CL/PT		-12.7			
16.0	CLAYEY PEAT, MOIST-DARK BROWN			-12.9			
	BOTTOM OF BORING @ 16.0 FT.						

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900792.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-48** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

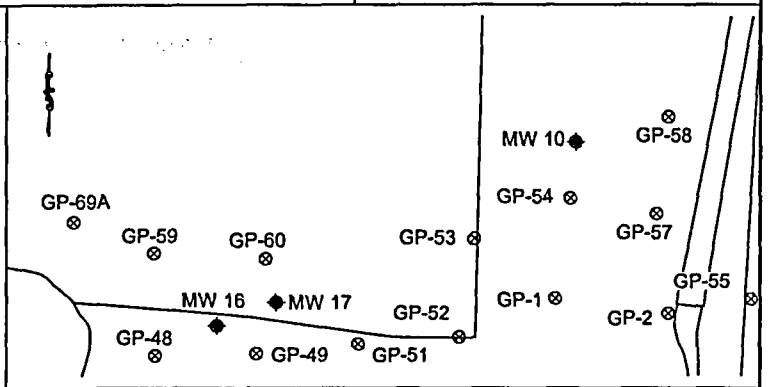
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/5/00 **Finished:** 11/5/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 3.9± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
	FINE SAND WITH ROOT, MOIST-BROWN	SP					
1.1				2.8			
	FINE TO MEDIUM SAND, MOIST-TAN WITH CLAY SEAMS 2.6-2.9'						
2.6				1.3			
	FINE TO MEDIUM SAND, WET-TAN BROWN TO GRAY						MODERATE-DIESEL
					A		
15.6				-11.7			
16.0	CLAYEY PEAT, MOIST-DARK BROWN	CL/PT		-12.1	B		
	BOTTOM OF BORING @ 16.0 FT.						

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900791.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-49** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

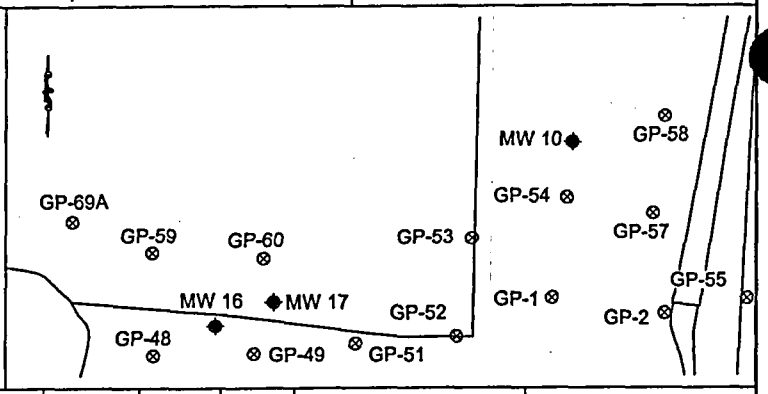
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/5/00 **Finished:** 11/5/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 3.7± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
0.6	FINE SAND WITH SILT & ROOT, MOIST-BROWN	SP		3.1			
	FINE TO COARSE SAND WITH ROCK, MOIST-BROWN GRAY (FILL)						MODERATE
2.3	FINE TO MEDIUM SAND, WET-BROWN GRAY			1.4			FAINT
6.8	LEAN CLAY WITH SAND, WET	CL		-3.1			
6.9	FINE SAND, WET-GRAY	SP		-3.2			
7.3	VERY FINE TO FINE SANDY LEAN CLAY, MOIST TO WET-DARK BROWN	CL		-3.6	A		
7.5	FINE TO MEDIUM SAND, WET-GRAY	SP		-3.8			
7.8	FINE SAND WITH LEAF/WOOD, WET-DARK GRAY			-4.1			
8.1	FINE TO MEDIUM SAND, WET-LT. GRAY			-4.4			
15.6	VERY FINE TO FINE SILTY SAND, WET GRAY	CL/PT		-11.9			
15.8	CLAYEY PEAT, WET-DARK BROWN			-12.1	B		
16.0	BOTTOM OF BORING @ 16.0 FT.			-12.3			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900791.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-50** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

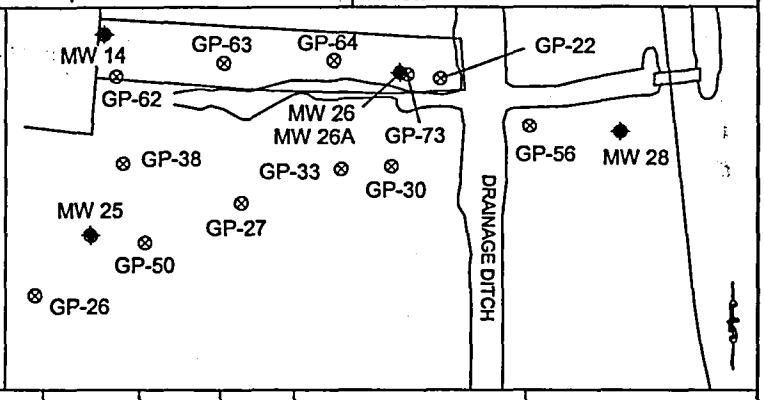
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/6/00 **Finished:** 11/6/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 1.1± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
	CLAYEY PEAT, WET-DARK BROWN	CL/PT					
1.0	VERY FINE TO FINE SAND, WET-LT. GRAY	SP		0.1			
2.5				-1.4	A		
2.8	VERY FINE SAND WITH ROOT MAT, WET-LT. GRAY & BROWN	CL		-1.7			
3.0	SILTY LEAN CLAY, WET-DARK BROWN			-1.9		RESIDUAL-SEAMS	MODERATE
4.6	LEAN CLAY WITH ROOT & SAND SEAMS	CL/PT		-3.5			
	CLAYEY PEAT, WET-DARK BROWN						
9.0	DECOMPOSING WOOD, WET			-7.9			
9.8	PEATY LEAN CLAY, WET-DARK BROWN			-8.7	B		
11.0	CLAYEY PEAT, WET-DARK BROWN			-9.9			
16.0	BOTTOM OF BORING @ 16.0 FT.			-14.9			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900795.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-51** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

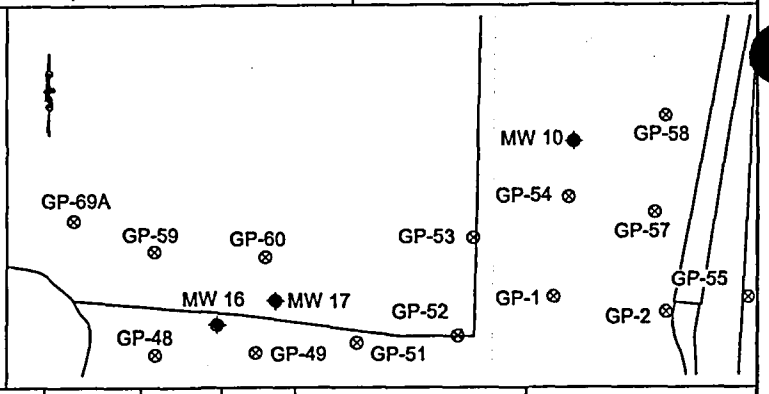
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/6/00 **Finished:** 11/6/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 3.2± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
0.7	FINE SAND WITH SILT & ROOT, MOIST-DARK BROWN	SP		2.5			
1.4	FINE TO COARSE SAND WITH ROCK (COAL), MOIST-DARK BROWN TO BLACK			1.8			
3.0	FINE TO COARSE SAND, MOIST-TAN TO TAN & ORANGE	CL		0.2			
3.1		SP		0.1			
3.8	LEAN CLAY, MOIST-DARK GRAY	SC		-0.6			
4.2	FINE SAND WITH CLAY SEAMS @ 3.1-3.2' & 3.4-3.5', WET-GRAY	SP		-1.0			
	FINE CLAYEY SAND, WET-GRAY						
	FINE TO MEDIUM SAND WITH CLAY SEAMS @ 6.4-6.5', 7.1-7.3', 10.5-10.6', 10.8-10.9' & 11.4-11.5', WET-GRAY				A		
11.9	LEAN CLAY, MOIST-DARK GRAY	CL		-8.7			
13.1	CLAYEY PEAT, MOIST-DARK BROWN	CL/PT		-9.9	B		
16.0	BOTTOM OF BORING @ 16.0 FT.			-12.8			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900791.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-52** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

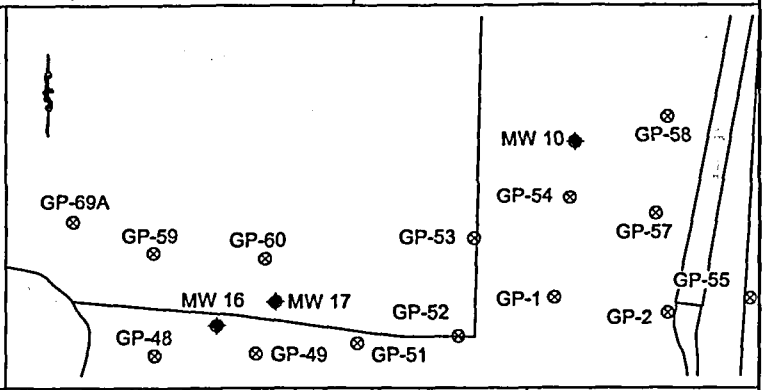
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/6/00 **Finished:** 11/6/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 3.7± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRATUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
0.8	FINE SAND WITH ROOT, MOIST-DARK BROWN	SP		2.9			
	FINE TO COARSE SAND WITH ROCK (COAL), MOIST-BROWN TO BLACK						
2.6				1.1			
2.9	LEAN CLAY, MOIST-DARK BROWN	CL		0.8			
	FINE TO COARSE SAND, WET-GRAY	SP			A		FAINT
						RESIDUAL	MODERATE FAINT
13.5				-9.8			
13.8	LEAN CLAY, MOIST-DARK GRAY	CL		-10.1			
	PEAT WITH CLAY, MOIST-DARK BROWN	PT			B		
15.5				-11.8			
16.0	PEATY CLAY, MOIST-DARK BROWN	CL/PT		-12.3			
	BOTTOM OF BORING @ 16.0 FT.						

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900791.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-53** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

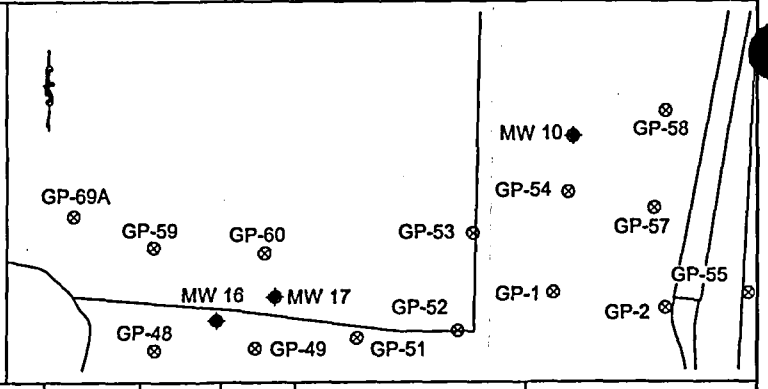
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/6/00 **Finished:** 11/6/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 3.6± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
	FINE TO COARSE SAND WITH ROCK & CLAY (FILL), MOIST-BROWN, TAN, GRAY	SP					
2.8	FINE TO COARSE SAND WITH CEMENTED SHELL & ROCK SEAM @ 3.6-3.9', WET-GRAY			0.8	A		
13.6				-10.0			
14.0	LEAN CLAY WITH WOOD, MOIST-DARK BROWN	CL		-10.4			
	CLAYEY PEAT, MOIST-DARK BROWN	CL/PT			B		
16.0	BOTTOM OF BORING @ 16.0 FT.			-12.4			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900791.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-54** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

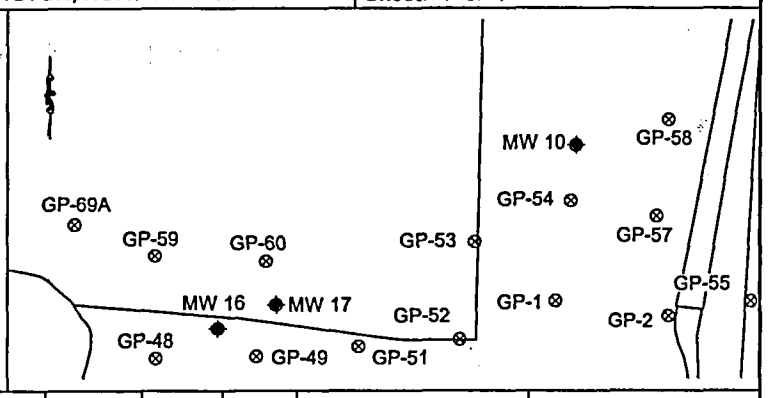
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/6/00 **Finished:** 11/6/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 3.5± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
	FINE SAND WITH ROOT, MOIST-LT. BROWN	SP					
0.9	FINE TO MEDIUM SAND, MOIST TO WET-BROWN TO TAN TO GRAY			2.6			
3.7				-0.2			
4.1	FINE SANDY CLAY/CLAYEY SAND WITH SEDIMENTS & CEMENTED SHELL FRAGMENTS, WET-DARK GRAY TO BLACK	SC		-0.6			
	FINE TO COARSE SAND WITH SEAM OF FINE TO COARSE SAND & ROCK @ 5.4-5.8', CLAY SEAM @ 6.5-6.6' & SILTY FINE SAND WITH ROOT SEAM @ 6.6-6.8', WET-GRAY				A		
11.5				-8.0			
11.8	LEAN CLAY, MOIST-DARK GRAY	CL		-8.3	B		
12.0	CLAYEY PEAT, MOIST-DARK BROWN	CL/PT		-8.5			
	BOTTOM OF BORING @ 12.0 FT.						

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900791.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-55** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

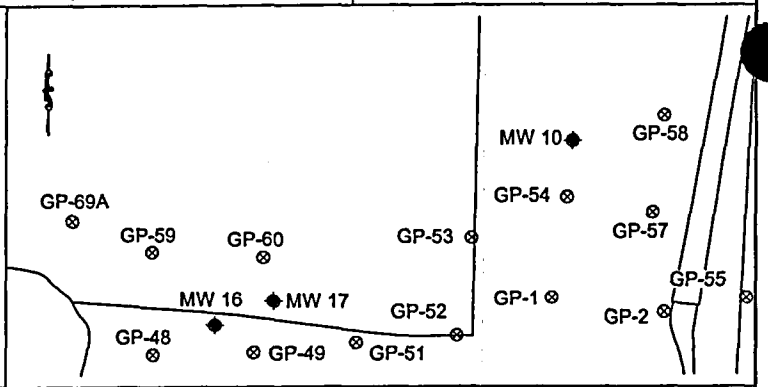
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/6/00 **Finished:** 11/6/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 3.9± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
	FINE SAND WITH ROOT, DRY-TAN	SP		3.1			
0.8	BARK & WOOD WITH SAND			1.6			
2.3	FINE TO COARSE SAND WITH ROCK, GRAY	SP		-0.1			
4.0	FINE SILTY SAND WITH ROOT & SEDIMENTS, WET-DARK BROWN & BLACK			-0.8			
4.7	FINE TO COARSE SAND WITH CLAY BALLS @ 8.0-8.2', 9.8-10.4' & ROOT @ 11.3-11.4', WET-GRAY				A		
11.8	SANDY CLAY/FINE CLAYEY SAND, WET-DARK GRAY	SC		-7.9			
12.1	LEAN CLAY, WET-DARK GRAY	CL		-8.2			
12.7	CLAYEY PEAT, WET-DARK BROWN	CL/PT		-8.8			
13.3	PEAT WITH CLAY, MOIST-DARK BROWN	PT		-9.4	B		
16.0	BOTTOM OF BORING @ 16.0 FT.			-12.1			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900791.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-56** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: HAND AUGER

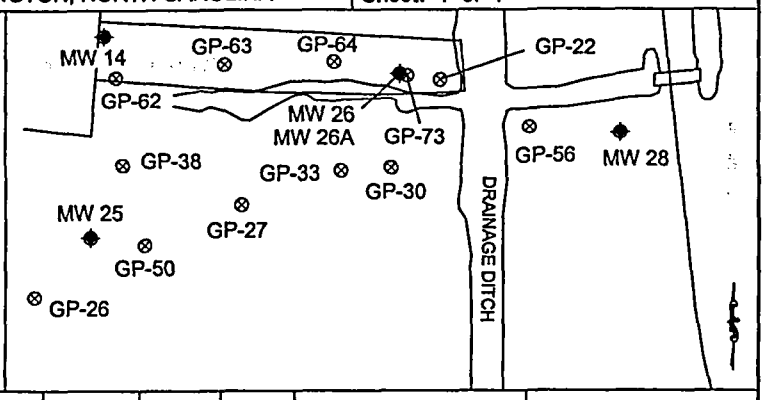
Drilling Equipment: HAND AUGER

SEA Representative: G. KUNTZ

Dates Started: 11/6/00 **Finished:** 11/6/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 2.0± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
	PEATY CLAY, MOIST-DARK BROWN	CL/PT					
1.0	LEAN CLAY, WET-DARK BROWN	CL		1.0			
2.0	PEATY CLAY, WET-DARK BROWN	CL/PT		0.0	A		
4.0	PEAT, WET	PT		-2.0			
6.0	PEATY CLAY, WET	CL/PT		-4.0	B		
16.0	BOTTOM OF BORING @ 16.0 FT.			-14.0			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-57** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

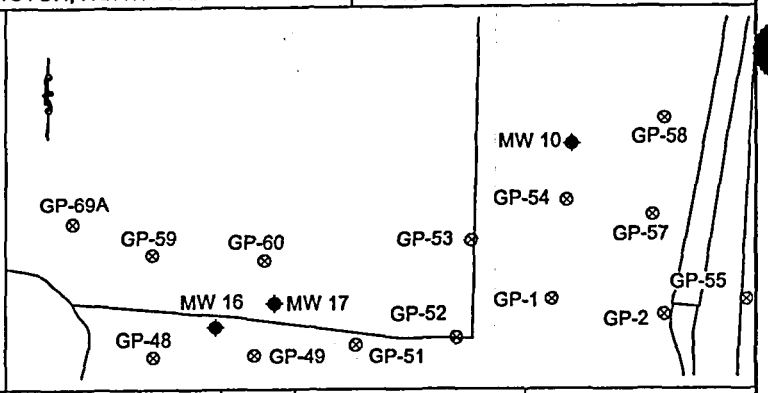
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/6/00 **Finished:** 11/6/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 3.5± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
	FINE SAND WITH SILT & ROOT & ROCK, FINE SANDY CLAY (FILL), BROWN, BLACK, GRAY, TAN	SP					
2.5				1.0			
2.8	FINE TO COARSE SAND WITH SHELL @ BOTTOM			0.7			
	FINE TO MEDIUM SAND WITH CLAY SEAM @ 5.6-6.0', WET-GRAY				A		
							FAINT
						RESIDUAL	MODERATE
11.8				-8.3			
12.0	LEAN CLAY WITH PEAT, MOIST TO WET-BROWN	CL		-8.5	B		
	BOTTOM OF BORING @ 12.0 FT.						

SWP DNAPL LOGS 97900791.GPJ GREG.GDT 10/5/01

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-58** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

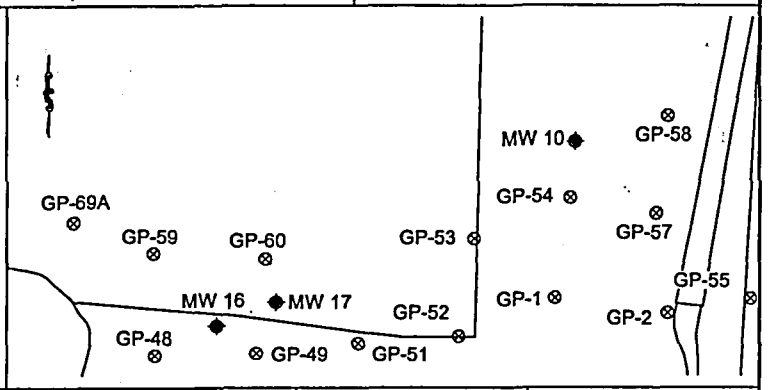
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/6/00 **Finished:** 11/6/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 3.6± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
	FINE TO COARSE SAND, ROCK, BARK, MOIST-BROWN, BLACK, GRAY, TAN (FILL)	SP					
2.8	FINE TO COARSE SAND, WET-GRAY			0.8	A		
11.8	LEAN CLAY WITH PEAT, WET-DARK GRAY	CL		-8.2	B		
12.0	BOTTOM OF BORING @ 12.0 FT.			-8.4			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900791.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-59** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

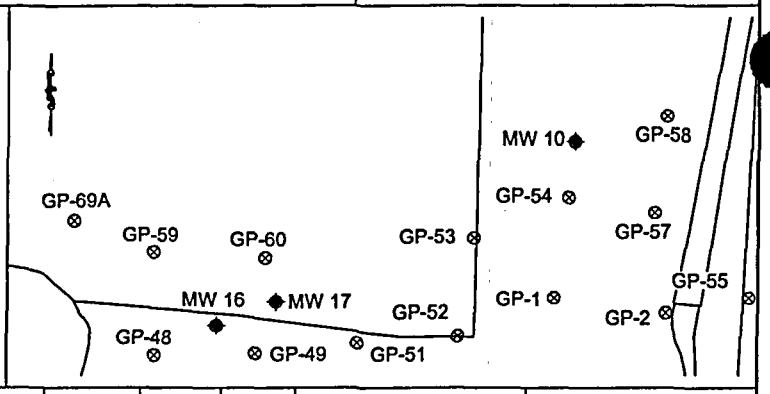
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/6/00 **Finished:** 11/6/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 3.5± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
0.7	FINE SAND WITH SILT & ROOT, MOIST-DARK BROWN	SP		2.8			
	FINE TO COARSE SAND, WET-BROWN TO TAN						
3.0	FINE TO MEDIUM SAND, WET-GRAY			0.5			
6.7	FINE CLAYEY SAND/SANDY CLAY, WET-GRAY	SC		-3.2	A		
6.9		CL		-3.4			
7.1	LEAN CLAY, WET-GRAY	SP		-3.6			
	FINE TO COARSE SAND WITH CLAY SEAM @ 7.3-7.9', WET-GRAY						
13.6	LEAN CLAY, WET-DARK GRAY	CL		-10.1			
14.2	CLAYEY PEAT, WET-DARK BROWN	CL/PT		-10.7	B		
16.0	BOTTOM OF BORING @ 16.0 FT.			-12.5			

SWP DNAPL LOGS 97900791.GPJ GREG.GDT 10/5/01

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-60** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

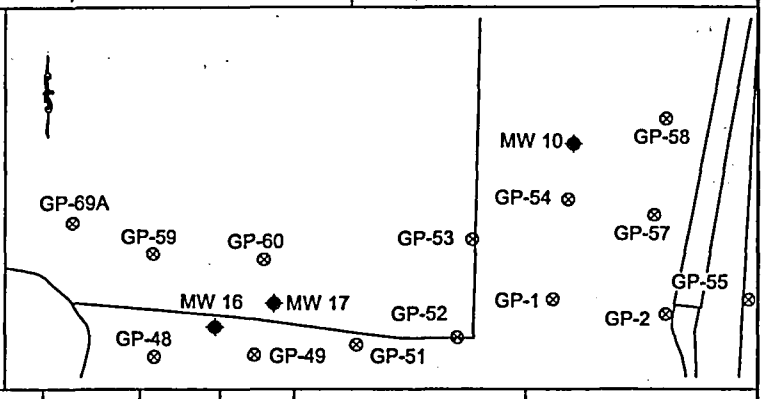
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/7/00 **Finished:** 11/7/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 3.8± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
	FINE TO COARSE SAND WITH ROCK, WOOD, MOIST-DARK BROWN TO TAN (FILL)	SP					
2.0	FINE TO MEDIUM SAND, WET-TAN TO GRAY			1.8			
3.8	FINE SAND, WET-TAN TO GRAY			0.0			
4.3	FINE TO MEDIUM SAND, WET-TAN TO GRAY			-0.5			
6.5	FINE TO COARSE SAND WITH WOOD @ 7.8-8.0, WET-TAN TO GRAY			-2.7	A		
8.0	FINE TO MEDIUM SAND, WET-TAN TO GRAY			-4.2			
10.5	FINE SAND WITH CLAY, WET-TAN TO GRAY			-6.7			
11.1	FINE TO COARSE SAND, WET-TAN TO GRAY			-7.3			
13.4	VERY FINE TO FINE SAND WITH CLAY, WET-GRAY			-9.6			
14.6	LEAN CLAY WITH ROOT, MOIST-DARK BROWN GRAY	CL		-10.8			
15.0	CLAYEY PEAT/PEATY CLAY, MOIST-DARK BROWN	PT/CL		-11.2	B		
16.0	BOTTOM OF BORING @ 16.0 FT.			-12.2			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900791.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-61** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

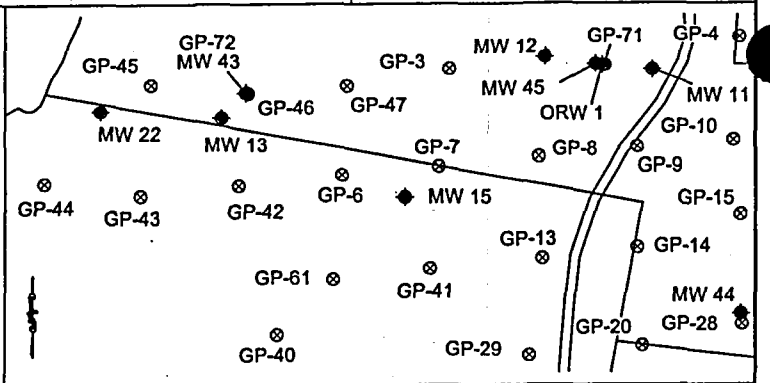
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/7/00 **Finished:** 11/7/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 3.0± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
	FINE SAND WITH ROOT, MOIST-TAN GRAY	SP		2.2			
0.8	FINE SAND, MOIST-TAN			1.8			
1.2	CLAYEY FINE SAND, MOIST-GRAY WITH ORANGE			1.5			
1.5	FINE TO MEDIUM SAND, CLAY SEAM @ 3.8-3.9', WET-TAN TO GRAY						
5.8	LEAN CLAY WITH ROOT, WET-DARK GRAY	CL		-2.8	A		
6.3	FINE TO COARSE SAND, CLAY SEAM @ 7.8-8.1', WET-GRAY TO TAN	SP		-3.3			
12.5	CLAYEY PEAT, MOIST-DARK BROWN	CL/PT		-9.5	B		
13.0	LEAN CLAY, MOIST-DARK BROWN	CL		-10.0			
13.4	CLAYEY PEAT, MOIST-DARK BROWN	CL/PT		-10.4			
16.0	BOTTOM OF BORING @ 16.0 FT.			-13.0			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900792.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-62** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

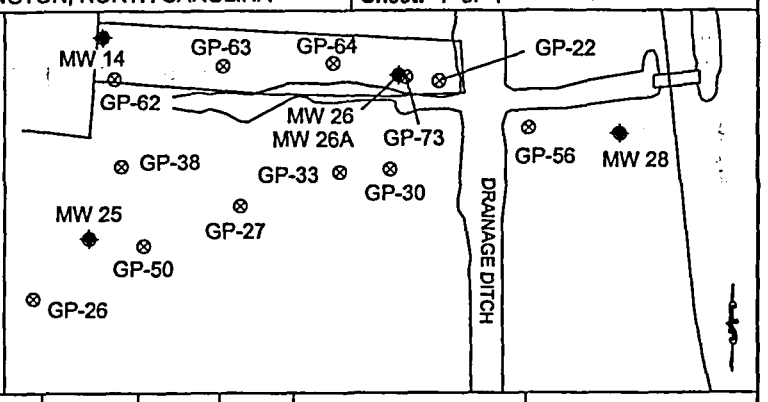
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/7/00 **Finished:** 11/7/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 2.0± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
0.6	FINE SAND WITH SILT & ROOT, MOIST-BROWN	SP		1.4			
	FINE TO MEDIUM SAND, MOIST TO WET @ 4.5'-TAN TO GRAY				A		FAINT
						SHEEN	MODERATE
13.9	PEAT WITH HEAVY ROOT & WOOD, WET-DARK BROWN	PT		-11.9	B	PUMPABLE	STRONG
14.8	CLAYEY PEAT/PEATY CLAY, MOIST TO WET-DARK BROWN	CL/PT		-12.8			FAINT
16.0	BOTTOM OF BORING @ 16.0 FT.			-14.0			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900795.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-63** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

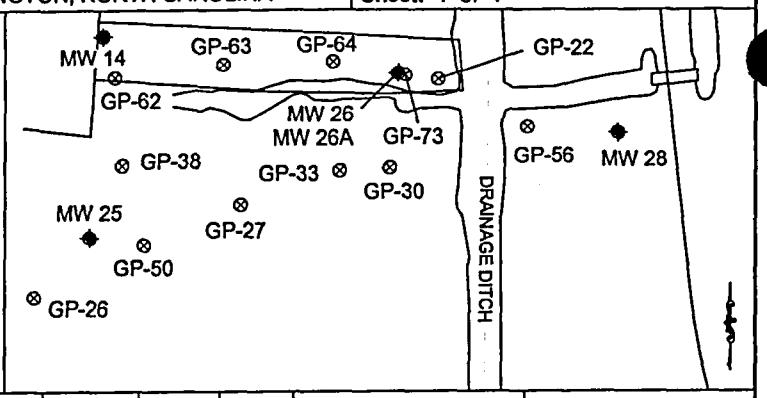
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/7/00 **Finished:** 11/7/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 1.8± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
0.7	FINE SAND WITH ROOT, MOIST-BROWN FINE TO MEDIUM SAND, MOIST-TAN TO GRAY	SP		1.1	A		
						SHEEN	FAINT MODERATE
13.8	PEAT WITH HEAVY ROOT & WOOD, WET-DARK BROWN	PT		-12.0	B	RESIDUAL	STRONG
14.9	CLAYEY PEAT/PEATY CLAY, MOIST-DARK BROWN	CL/PT		-13.1			FAINT
16.0	BOTTOM OF BORING @ 16.0 FT.			-14.2			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900795.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-64** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

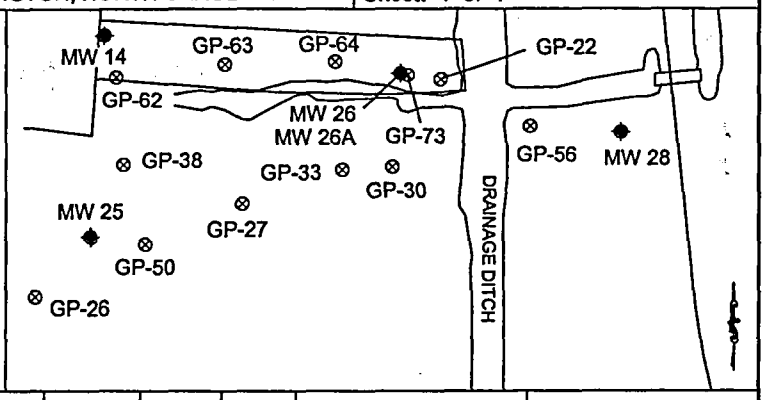
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/7/00 **Finished:** 11/7/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 1.6± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
0.6	FINE SAND WITH ROOT, MOIST-BROWN FINE TO MEDIUM SAND, MOIST-TAN	SP		1.0	A		
14.6	CLAYEY PEAT, WET-DARK BROWN	CL/PT		-13.0	B	RESIDUAL-MINIMAL	MODERATE
15.2	PEATY FINE SAND, WET-DARK BROWN GRAY	SP		-13.6			STRONG
15.6	CLAYEY PEAT, MOIST-DARK BROWN	CL/PT		-14.0			MODERATE
16.6	LEAN CLAY WITH PEAT & ROOT, WET-DARK BROWN	CL		-15.0			
17.0	BOTTOM OF BORING @ 17.0 FT.			-15.4			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900795.GPJ GREG.GDT 10/5/01

Schnabel Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-65** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

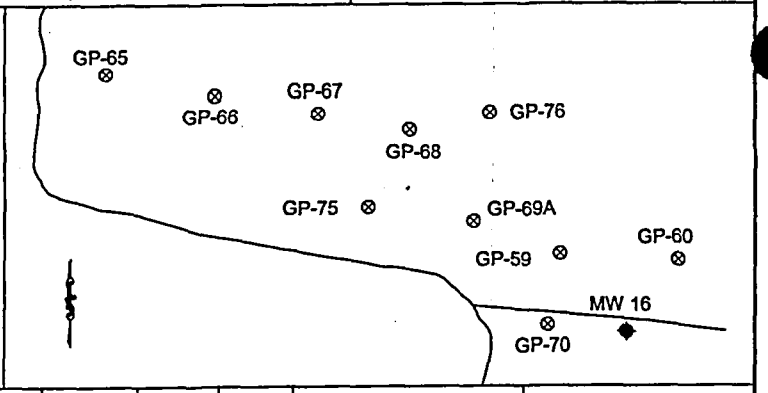
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/7/00 **Finished:** 11/7/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 5.1± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
	FINE SAND, DRY TO MOIST-TAN	SP			A		
3.8	FINE TO COARSE SAND, MOIST-TAN			1.3			
4.0	BOTTOM OF BORING @ 4.0 FT.			1.1			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900796.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-66** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

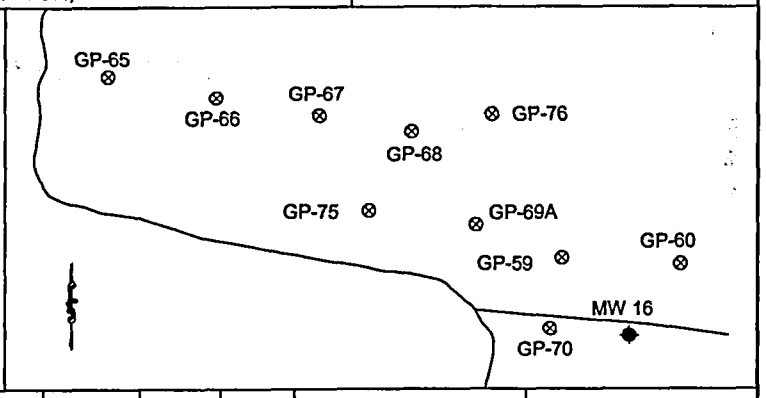
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/7/00 **Finished:** 11/7/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 3.8± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
	FINE SAND, DRY TO MOIST-TAN TO GRAY	SP			A		
3.2				0.6			
3.5	VERY FINE TO FINE SAND, WET-TAN BROWN GRAY	CL		0.3			
3.6	LEAN CLAY, WET-DARK GRAY			0.2			
3.8	VERY FINE TO FINE SAND, WET-GRAY & TAN			0.0			
4.0	FINE TO COARSE SAND, ROCK (COAL), SILT, WET-DARK GRAY TO BLACK			-0.2			
	BOTTOM OF BORING @ 4.0 FT.						

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900796.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-67** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

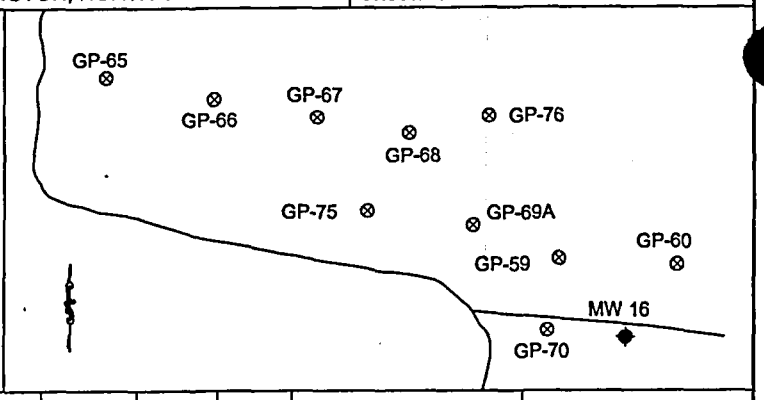
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/7/00 **Finished:** 11/7/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 4.4± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
	FINE TO MEDIUM SAND WITH LAYER OF FINE TO COARSE SAND, ROCK (COAL), SILTS @ 2.8-3.5', BROWN BLACK ORANGE TAN, MOIST TO WET-GRAY TAN	SP			A		
4.0	BOTTOM OF BORING @ 4.0 FT.			0.4			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-68** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

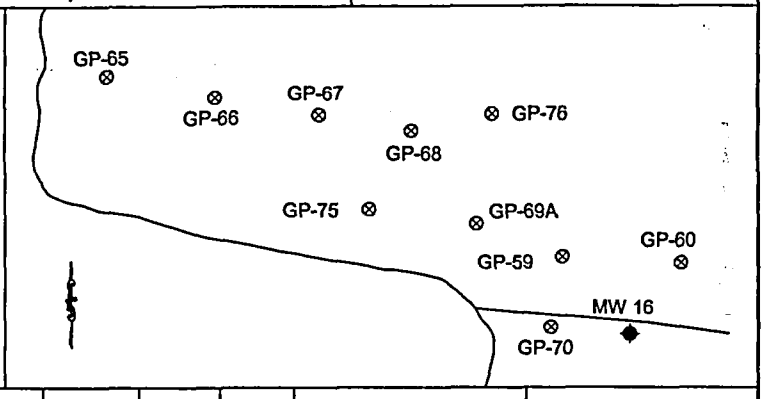
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/7/00 **Finished:** 11/7/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 3.7± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
	FINE TO MEDIUM SAND, BECOMING VERY FINE @ 3.3', MOIST TO WET-GRAY TO TAN TO BROWN TO GRAY	SP			A		
3.5				0.2			
4.0	FINE TO COARSE SAND WITH ROCK (COAL) SILT, MOIST-DARK GRAY TO BLACK BOTTOM OF BORING @ 4.0 FT.			-0.3			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900796.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-69A** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

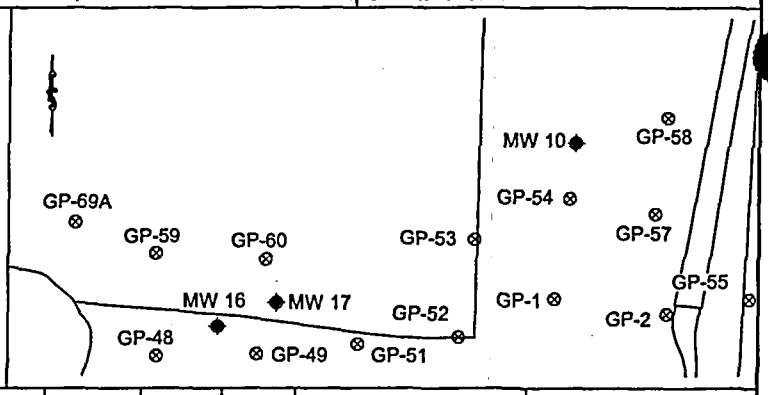
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/7/00 **Finished:** 11/7/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 3.5± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
	FINE SAND, MOIST-DARK BROWN TO TAN	SP					
1.6	FINE TO MEDIUM SAND WITH WOOD & ROCK, MOIST-BROWN TO BLACK			1.9			FAINT
3.0	FINE TO MEDIUM SAND, WET-DARK GRAY TO BLACK			0.5		RESIDUAL-SHEEN & MINIMAL STAINING	STRONG
6.5	FINE TO COARSE SAND WITH LEAN CLAY SEAM @ 6.5-6.6', WET-GRAY TO TAN			-3.0	A		FAINT
20.4				-16.9			
20.7	VERY FINE TO FINE SAND, WET-GRAY	CL		-17.2			
	LEAN CLAY WITH ROOT, WET-DARK GRAY				B		
23.6				-20.1			
24.0	CLAYEY PEAT, WET-DARK BROWN	CL/PT		-20.5			
	BOTTOM OF BORING @ 24.0 FT.						

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900791.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-70** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

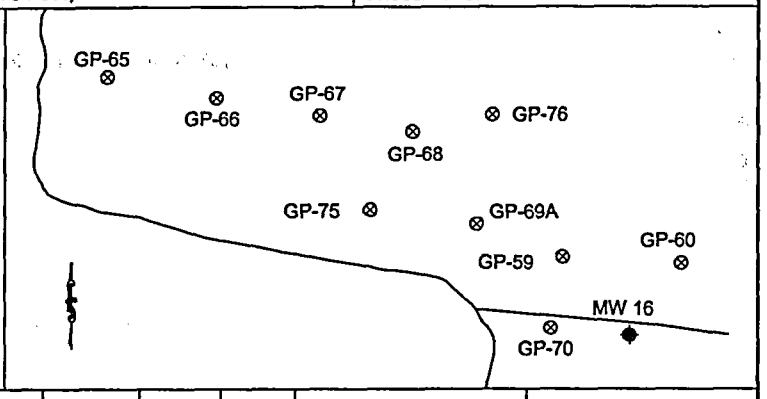
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/7/00 **Finished:** 11/7/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 5.3± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
0.5	FINE SAND, DRY-TAN	SP		4.8			
	FINE SANDY CLAY, DRY TO MOIST-TAN ORANGE (FILL)	SC			A		
2.6				2.7			
2.8	SLIGHTLY CLAYEY VERY FINE TO FINE SAND, MOIST-BROWN	SP		2.5			
3.2		CL		2.1			
3.4	FINE SAND, MOIST-TAN BROWN	CP		1.9			
4.0	LEAN CLAY, MOIST-DARK GRAY			1.3			
	FINE SAND, MOIST-LT. GRAY						
	BOTTOM OF BORING @ 4.0 FT.						

Comments:
1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900796.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-71** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

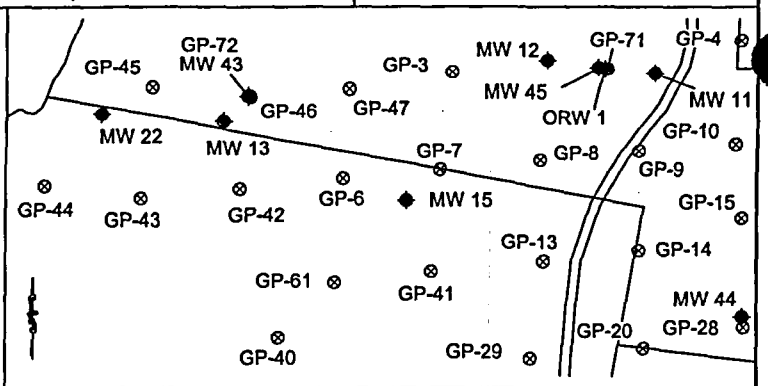
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/16/00 **Finished:** 11/16/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 4.5± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
	FINE TO MEDIUM SAND WITH ROOT, MOIST-TAN TO BROWN	SP					
1.8				2.7			
	FINE SILTY SAND WITH CHARRED WOOD, MOIST-DARK BROWN TO BLACK						FAINT
2.7				1.8			
2.9	FINE SAND WITH CEMENTED SHELL, MOIST-GRAY			1.6			MODERATE
	FINE TO COARSE SAND WITH ROCK & CHARRED WOOD, WET-DARK BROWN & BLACK						
5.4				-0.9			
6.3	FINE TO MEDIUM SAND, WET-DARK BROWN			-1.8		RESIDUAL-SEAMS	STRONG
7.0				-2.5			
7.5	FINE TO VERY FINE SAND, WET-GRAY	CL		-3.0			FAINT
7.8		SP		-3.3	A		
8.3	LEAN CLAY, MOIST TO WET	PT		-3.8		RESIDUAL	STRONG
8.7	FINE TO COARSE SAND WITH WOOD, WET-DARK BROWN	SP		-4.2			
	FINE TO MEDIUM SAND, WET-TAN TO BROWN						FAINT
11.0	PEAT, MOIST-DARK BROWN			-6.5			
	FINE TO COARSE SAND, WET-GRAY					RESIDUAL	
12.0	FINE TO MEDIUM SAND WITH SANDY CLAY SEAMS			-7.5			
	FINE TO COARSE SAND WITH WOOD, WET-DARK BROWN					PUMPABLE	STRONG
15.4				-10.9			
15.7	LEAN CLAY, MOIST-DARK BROWN	CL		-11.2	B		
16.0	CLAYEY PEAT, MOIST TO WET-DARK BROWN	CL/PT		-11.5			
	BOTTOM OF BORING @ 16.0 FT.						

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900792.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-72** Contract Number: 979007.A0.26 Sheet: 1 of 2

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

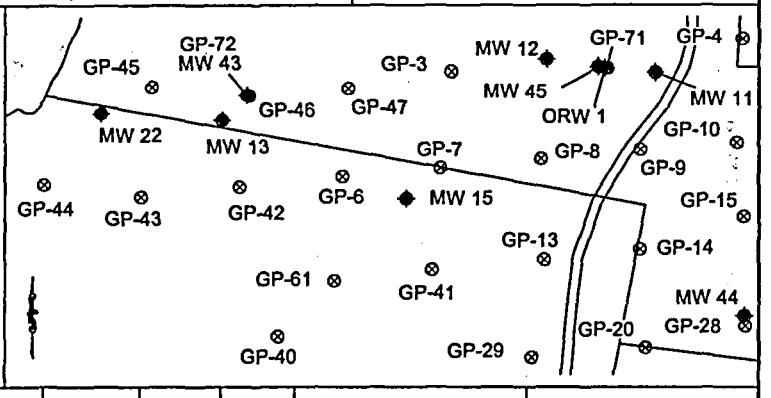
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/16/00 **Finished:** 11/16/00

Location: SEE SITE LOCATION PLAN

Ground Surface Elevation: 3.3± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
	6" SURFACE CASING TO 22'						
					B		
	continued on next page						

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900797.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: GP-72 Contract Number: 979007.A0.26 Sheet: 2 of 2

DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
	6" SURFACE CASING TO 22' *(continued)*						
24.0	CLAYEY PEAT WITH ROOT, MOIST-DARK BROWN	CL/PT		-20.7	B		
27.4	DECOMPOSED TREE/ROOT			-24.1			
28.0	PEAT, WET-DARK BROWN	PT		-24.7			
30.7	FINE TO MEDIUM SAND, WET-TAN	SP		-27.4			
34.6	FINE TO COARSE SAND, WET-TAN TO LT. GRAY			-31.3	C		
38.9	FINE SANDY CLAY, MOIST-GRAY	SC		-35.6			
39.1	CEMENTED CLAY WITH FINE SAND, DRY-GRAY	CL		-35.8	D		
39.3	CLAY WITH FINE SAND, DRY-GRAY			-36.0			
40.0	BOTTOM OF BORING @ 40.0 FT.			-36.7			

Comments:
1. BACKFILLED WITH BENTONITE UPON COMPLETION.

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-73** Contract Number: 979007.A0.26 Sheet: 1 of 2

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

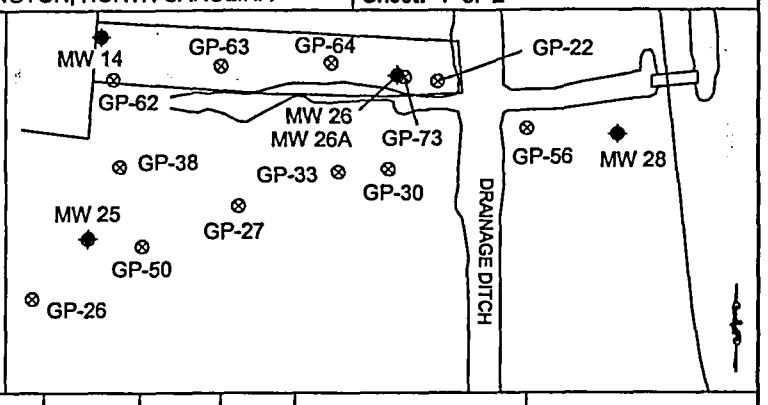
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/16/00 **Finished:** 11/16/00

Location: SEE SITE LOCATION PLAN

Ground Surface Elevation: 2.4± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
	6" SURFACE CASING TO 20' SEE LOG FOR MW-26				A		
					B		
20.0				-17.6			
20.6	GROUT			-18.2			
	DECOMPOSED WOOD, WET						FAINT
21.3	VERY FINE TO FINE SAND,	SP		-18.9	C	SHEEN	STRONG
	continued on next page						

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900798.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: GP-73 Contract Number: 979007.A0.26 Sheet: 2 of 2

DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
	WET-DARK BROWN VERY FINE TO FINE SAND, WET-DARK BROWN *(continued)*	SP				SHEEN	
						RESIDUAL	STRONG
26.6	VERY FINE TO FINE SAND, WET-TAN			-24.2			MODERATE
27.2	VERY FINE TO FINE SAND WITH ROOT MAT @ 27.6-27.8', WET-DARK BROWN			-24.8		SHEEN	STRONG
27.8	FINE SAND, WET-TAN TO GRAY			-25.4		RESIDUAL-MINIMAL	MODERATE
					C		
32.0	VERY FINE TO FINE SAND, WET-LT. GRAY			-29.6		SHEEN	FAINT
34.2	FINE TO COARSE SAND, WET-LT. GRAY			-31.8			
						PUMPABLE	STRONG
40.0	SANDY LEAN CLAY, MOIST-DARK GRAY	SC		-37.6			FAINT
41.0	LEAN CLAY WITH TRACE FINE SAND, DRY-DARK GRAY	CL		-38.6	D		
42.0	BOTTOM OF BORING @ 42.0 FT.			-39.6			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-74** Contract Number: 979007.A0.26 Sheet: 1 of 2

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

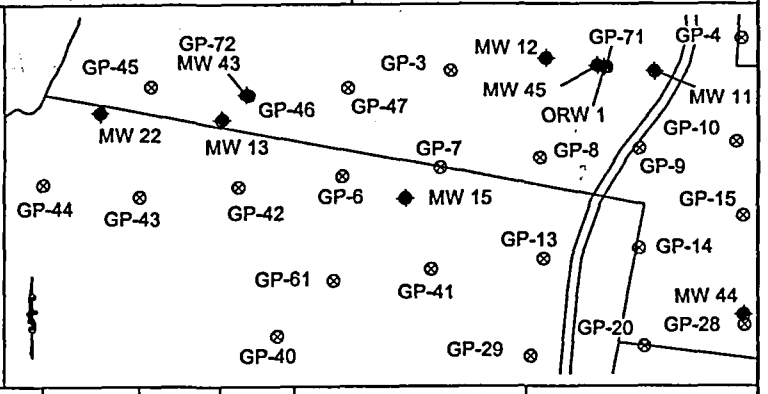
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/16/00 **Finished:** 11/16/00

Location: SEE SITE LOCATION PLAN

Ground Surface Elevation:



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
	6" SURFACE CASING TO 16'				B		
16.0	PEAT, WET-DARK BROWN	PT					MODERATE
	continued on next page						

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

Schnabel Engineering Associates, Inc. TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: GP-74 Contract Number: 979007.A0.26 Sheet: 2 of 2

DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
	PEAT, WET-DARK BROWN *(continued)*	PT			B		MODERATE
28.0	FINE TO MEDIUM SAND, WET-TAN	SP			C	PUMPABLE	STRONG
39.0	LEAN CLAY WITH FINE SAND, MOIST-DARK GRAY	CL			D	PUMPABLE	
41.0	BOTTOM OF BORING @ 41.0 FT.						

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-75** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

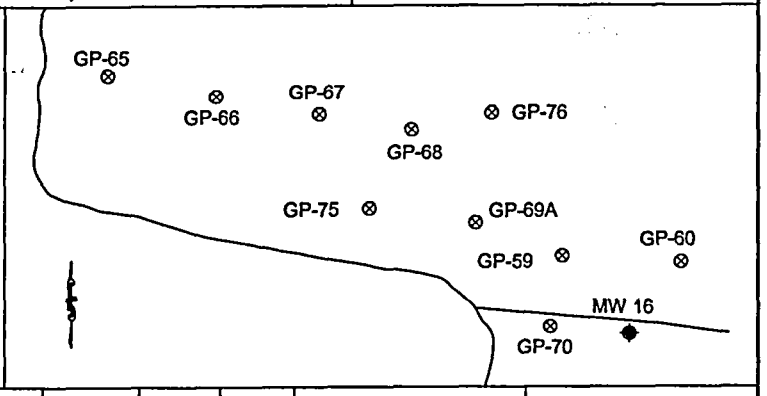
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/16/00 **Finished:** 11/16/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 3.9± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
	FINE TO MEDIUM SAND WITH ROOT, MOIST-BROWN TO TAN	SP					
2.0				1.9			
2.5	VERY FINE TO FINE SAND, WET-GRAY			1.4			
	FINE TO MEDIUM SAND WITH CLAY SEAM @ 7.2-7.5', WET-GRAY				A		
12.0	BOTTOM OF BORING @ 12.0 FT.			-8.1			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900796.GPJ GREG.GDT 10/5/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **GP-76** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: ARM ENVIRONMENTAL SERVICES COLUMBIA, SOUTH CAROLINA

Boring Foreman: D. ROGERS

Drilling Method: GEOPROBE

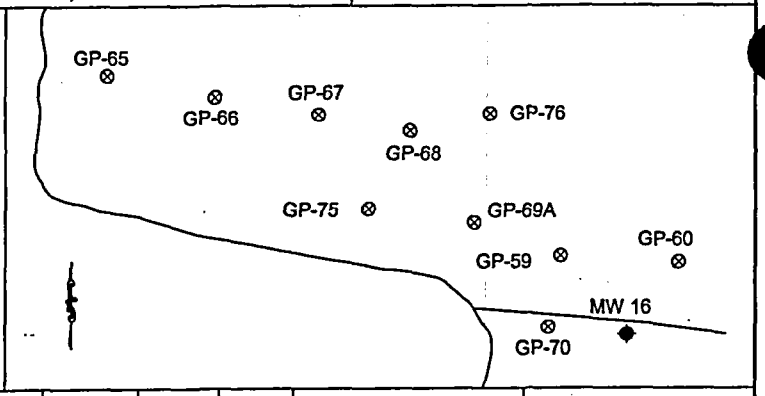
Drilling Equipment: GEOPROBE

SEA Representative: G. KUNTZ

Dates Started: 11/16/00 **Finished:** 11/16/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 3.3± (feet)



DEPTH (ft)	STRATA DESCRIPTION	CLASS.	SYMBOL	ELEV. (ft)	STRA-TUM	VISUAL OBSERVATIONS	OLFACTORY OBSERVATIONS
	FINE SAND WITH ROOT, MOIST-DARK BROWN	SP					
1.2	FINE TO MEDIUM SAND, MOIST-TAN			2.1			
2.5	LEAN CLAY, MOIST-DARK GRAY	CL		0.8			
2.9	FINE TO MEDIUM SAND, WET-BLACK	SP		0.4			
3.1	FINE TO MEDIUM SAND, WET-TAN TO GRAY			0.2	A		
12.0	BOTTOM OF BORING @ 12.0 FT.			-8.7			

Comments:

1. BACKFILLED WITH BENTONITE UPON COMPLETION.

SWP DNAPL LOGS 97900796.GPJ GREG.GDT 10/5/01

GP-1

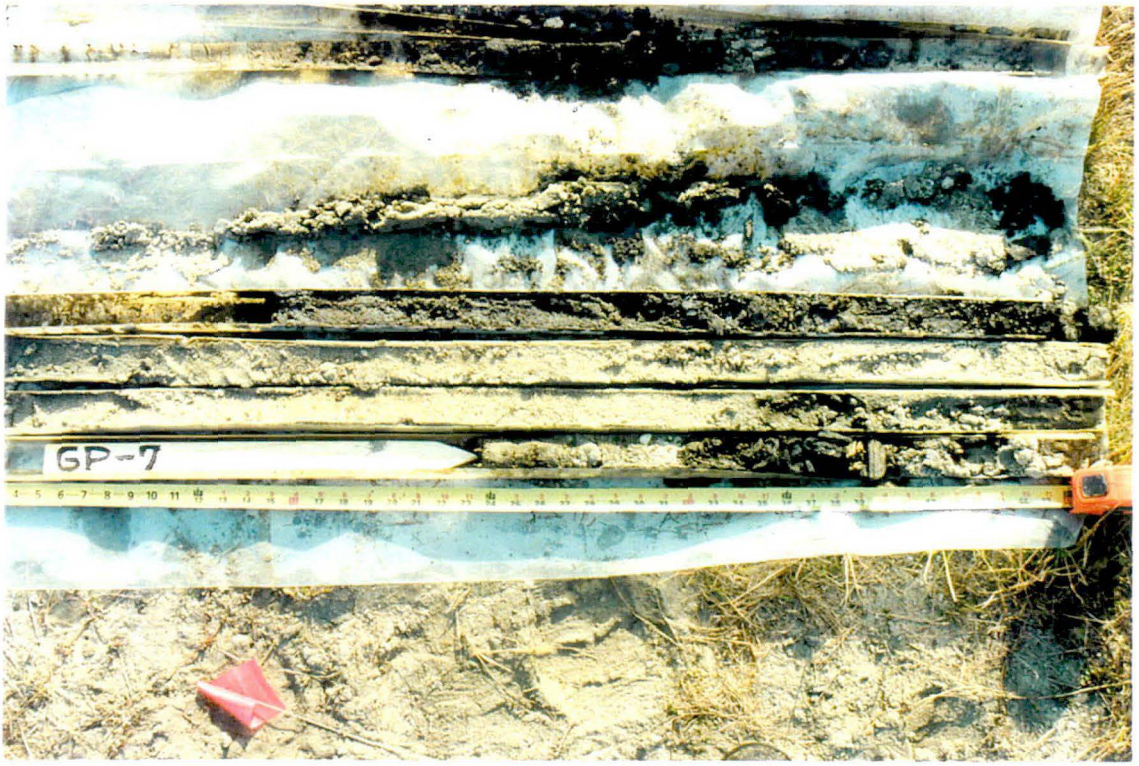
GP-2

GP-3

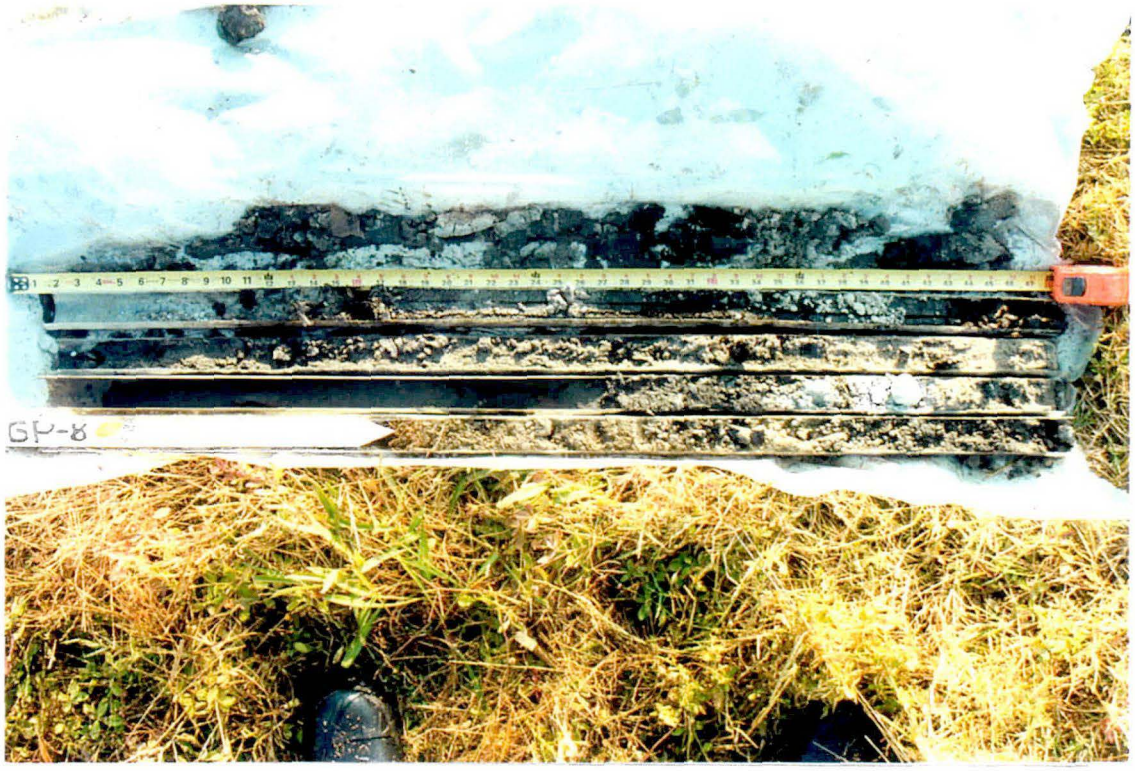
GP-4

GP-5

GP-6



GP-7



GP-8

GP-9

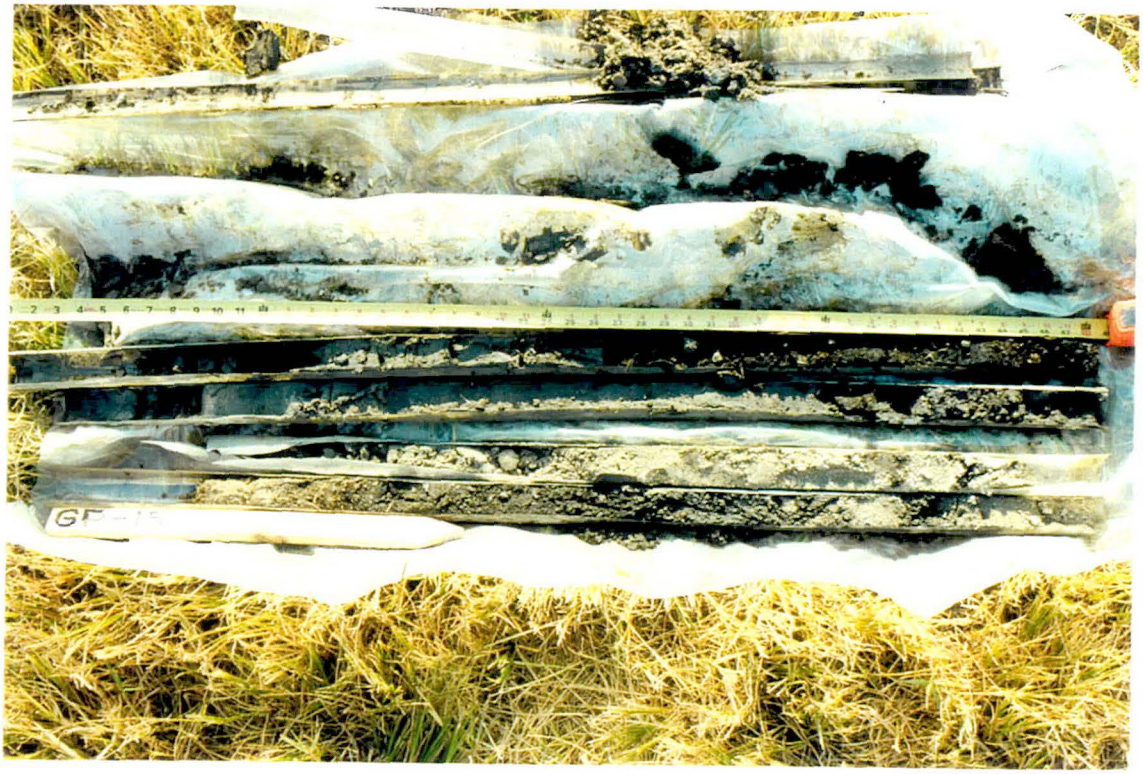
GP-10

GP-11

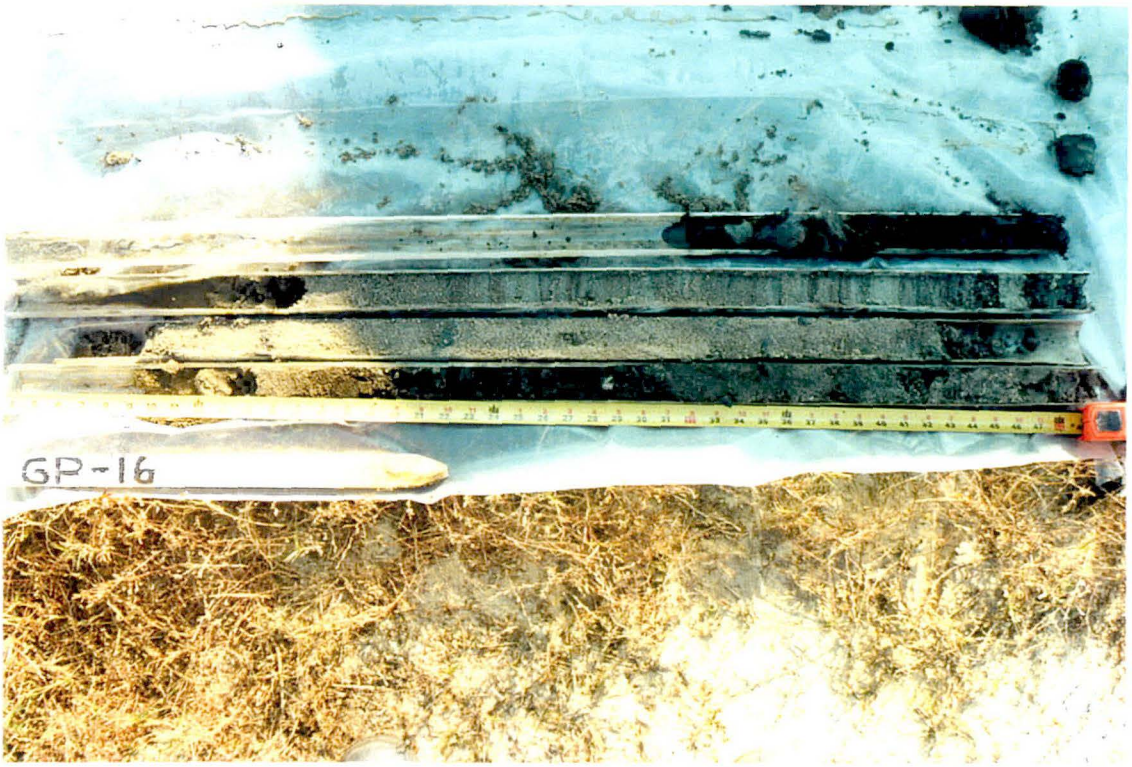
GP-12

GP-13

GP-14



GP-15



GP-16

GP-17

GP-18

GP-19

GP-20

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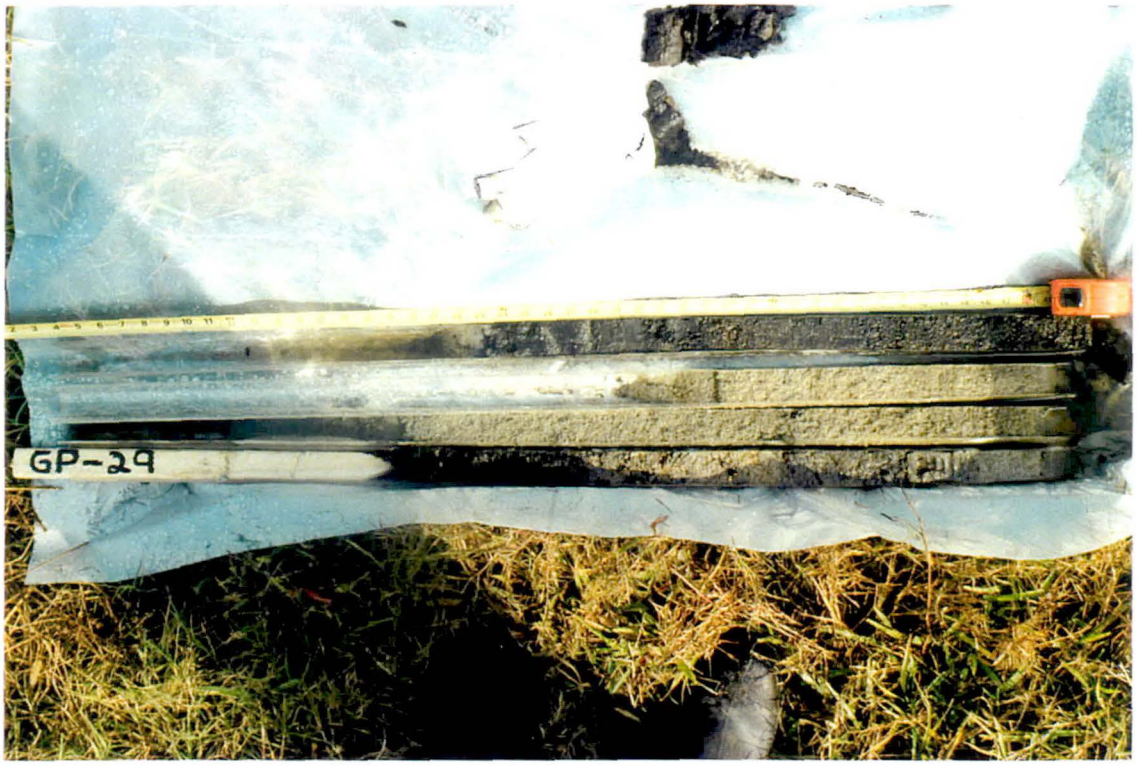
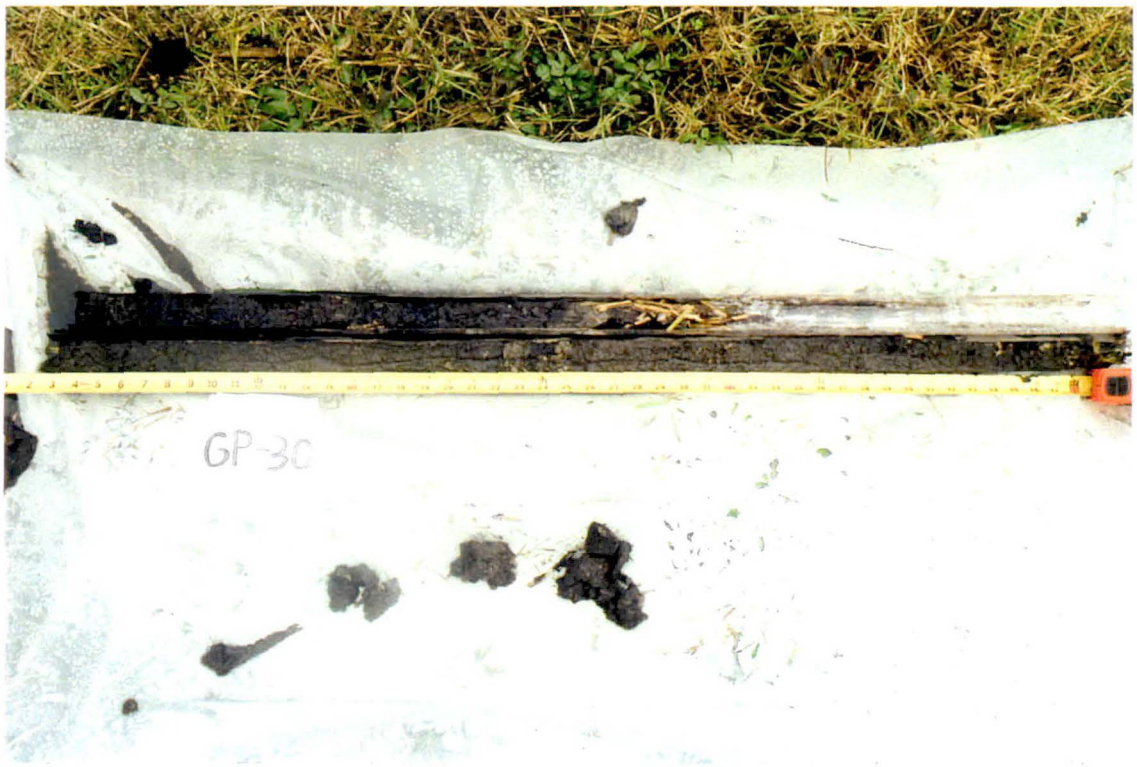
GP-26

GP-27

GP-28



GP-29



GP-30

GP-31

GP-32

GP-33

GP-34

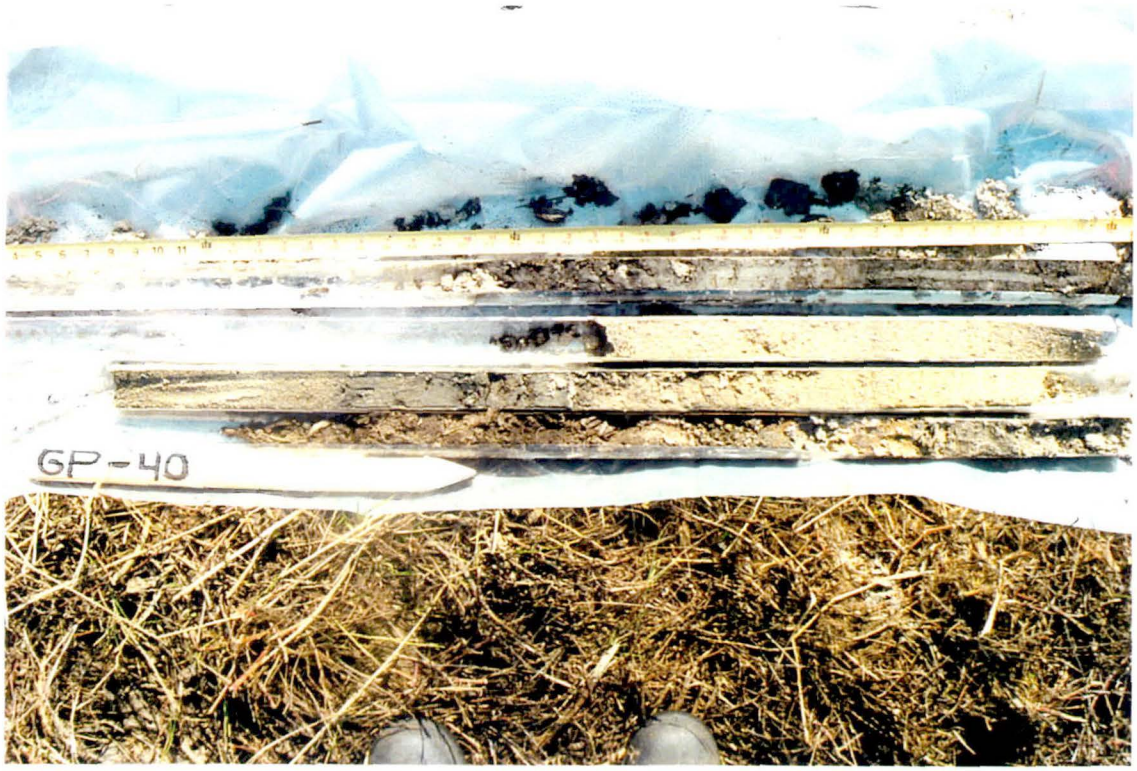
GP-35

GP-36

GP-37

GP-38

GP-39



GP-40

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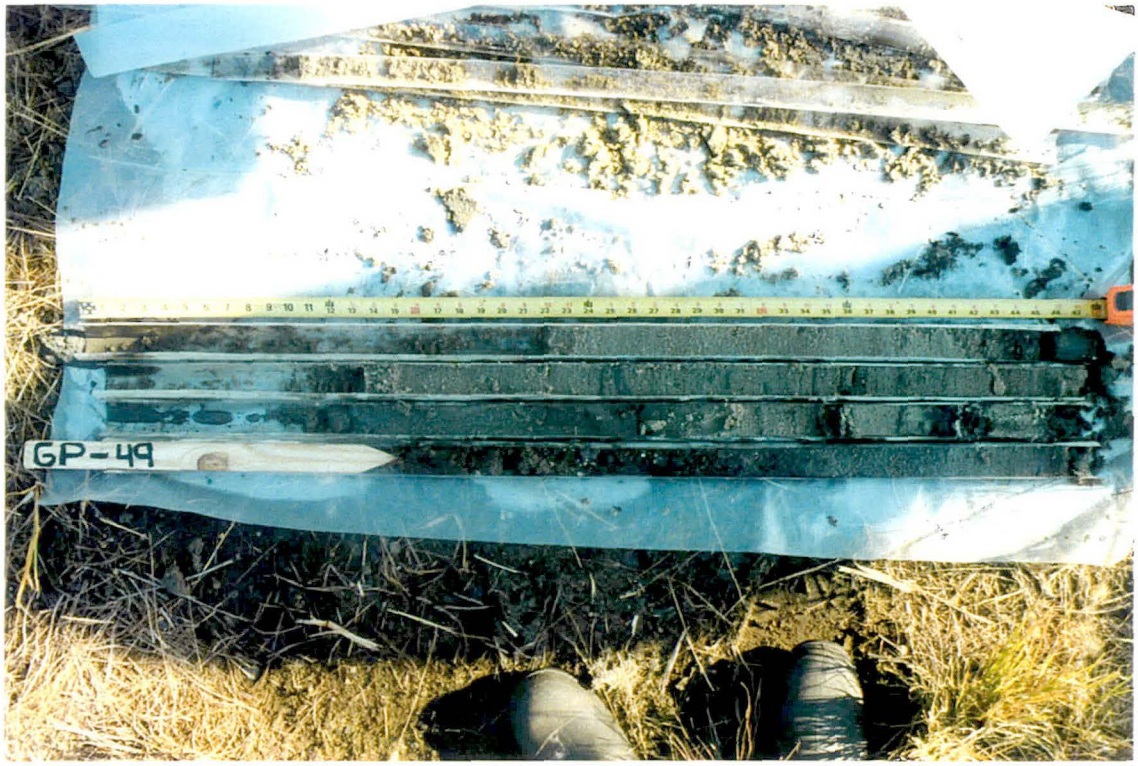
GP-48



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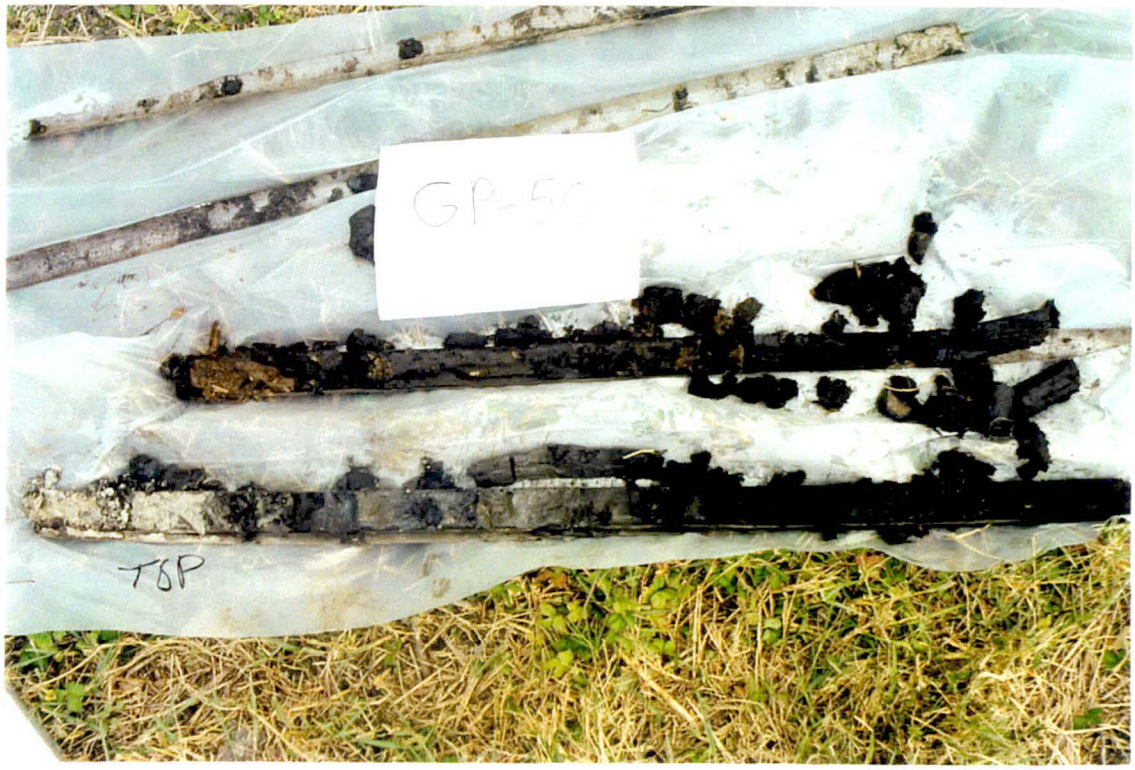

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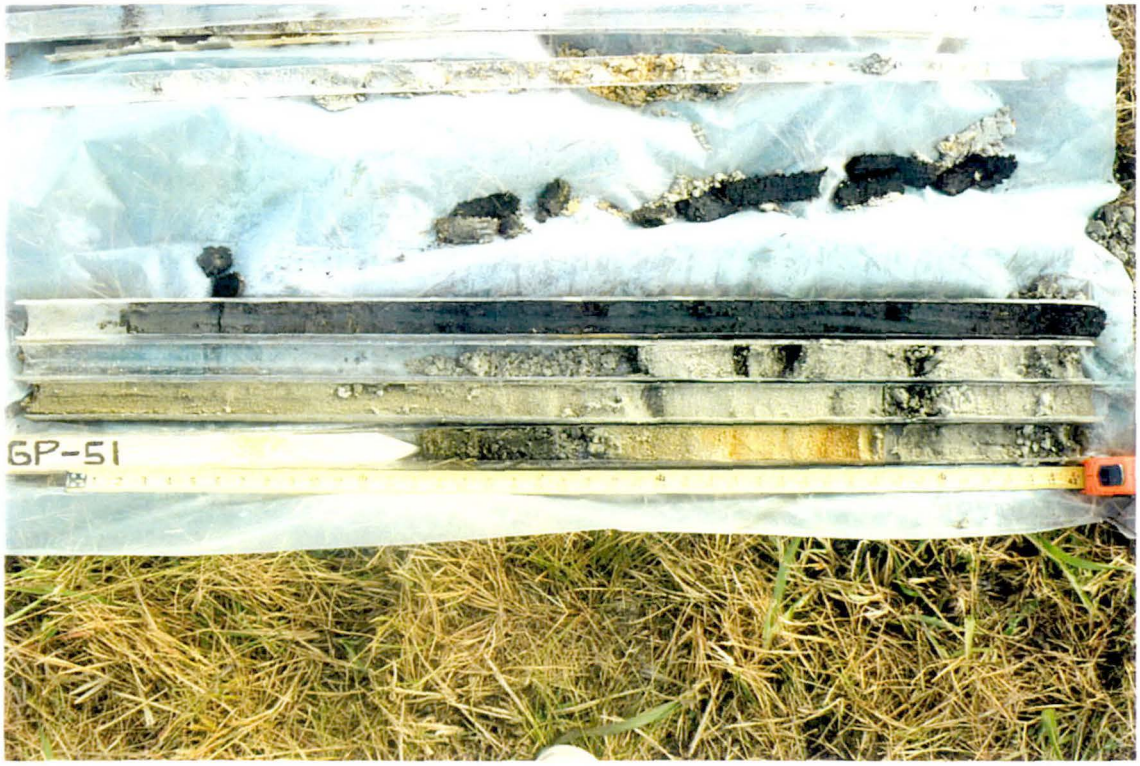

GP-51

GP-52

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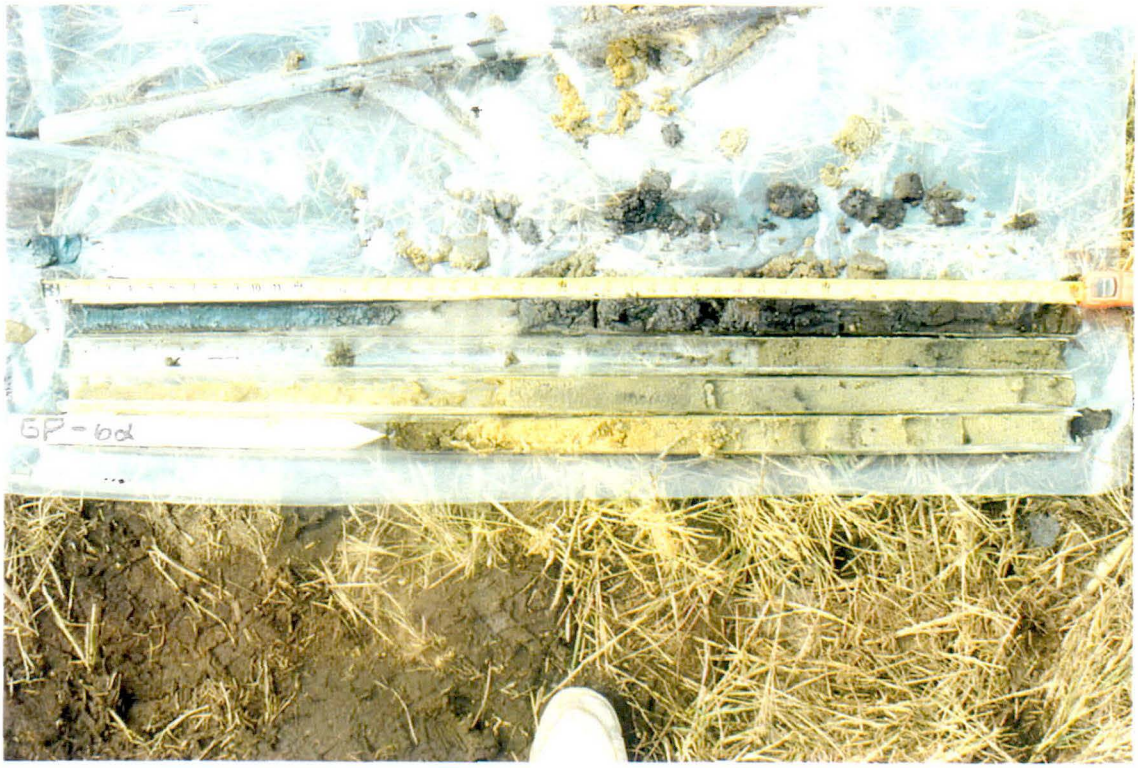
GP-61

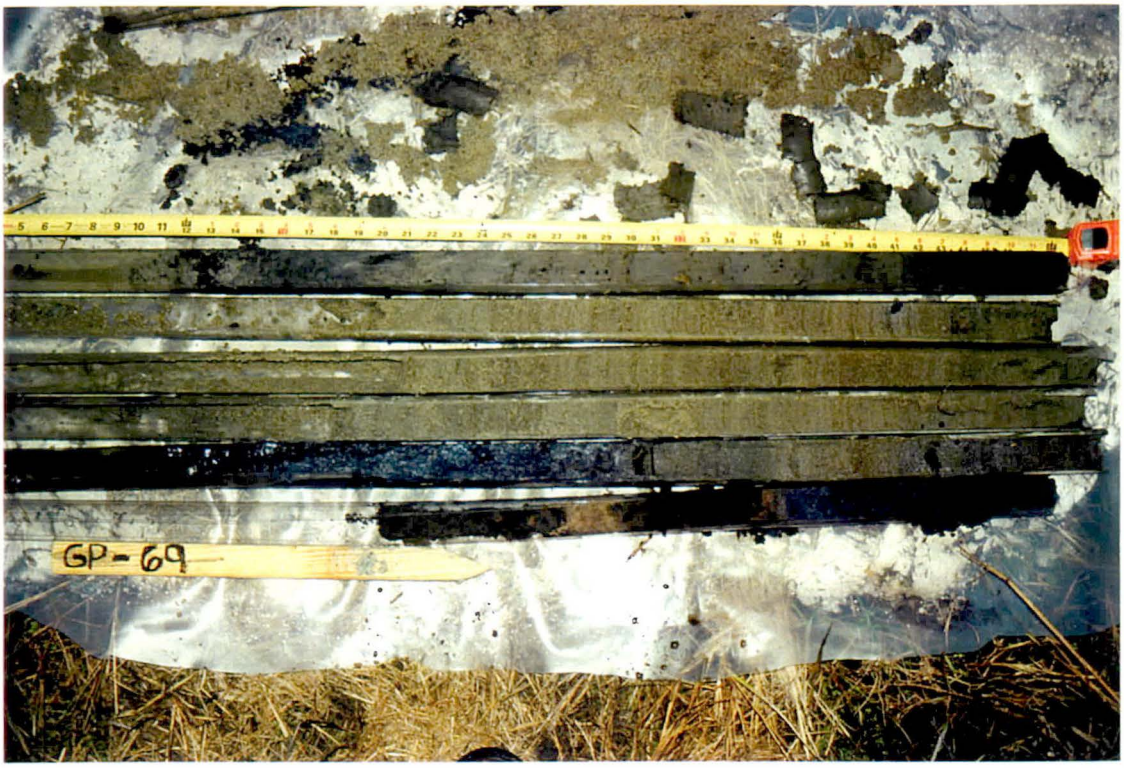


GP-62

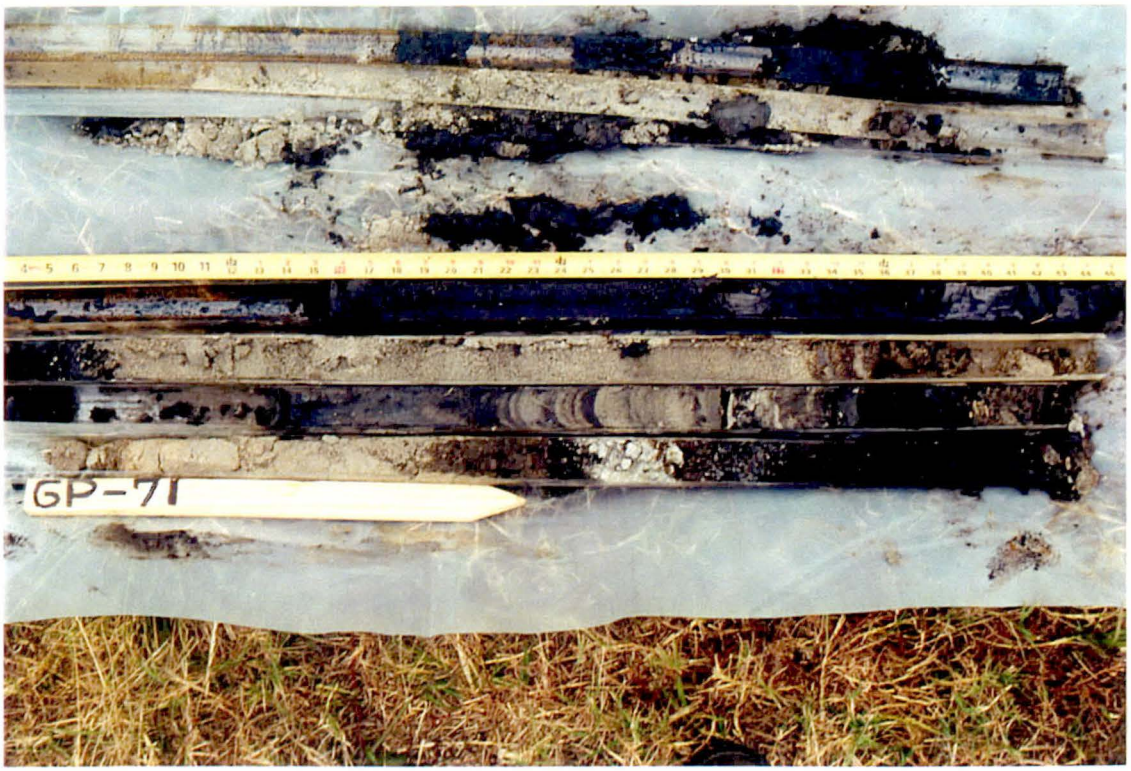
GP-63

GP-64

GP-65 - GP-70



GP-69A



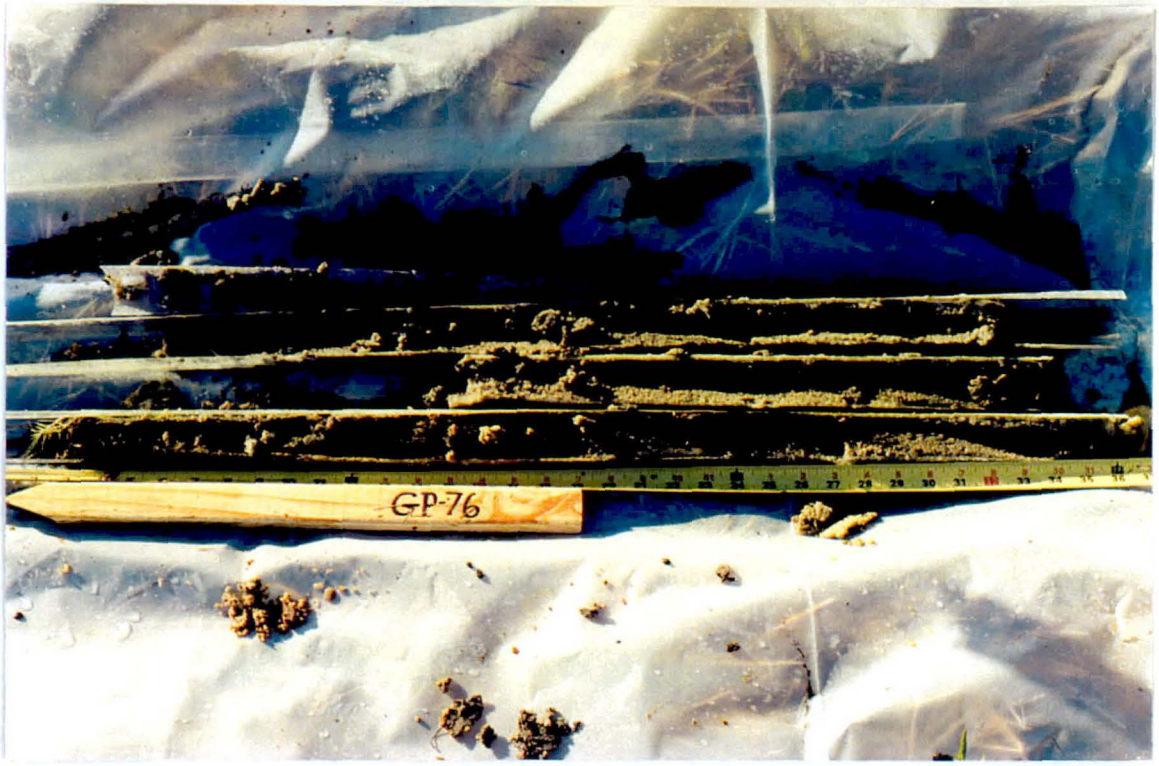
GP-71

GP-72

GP-73

GP-74

GP-75



GP-76

ATTACHMENT B

GENERAL NOTES FOR TEST BORING LOGS

1. NUMBERS IN SAMPLING DATA COLUMN (3+6+27) INDICATE BLOWS REQUIRED TO DRIVE A 2 INCH O.D., 1-3/8 INCH I.D. SAMPLING SPOON 6 INCHES USING A 140 POUND HAMMER FALLING 30 INCHES ACCORDING TO ASTM D1586.

2. VISUAL CLASSIFICATION OF SOIL IS IN ACCORDANCE WITH TERMINOLOGY SET FORTH IN THE ATTACHED "IDENTIFICATION OF SOIL." THE GROUP CLASSIFICATION SYMBOLS SHOWN IN THE CLASSIFICATION COLUMN ARE BASED ON VISUAL INSPECTION AND AVAILABLE LABORATORY DATA.

3. GROUNDWATER OBSERVATIONS: THE DEPTH OF WATER BELOW GRADE WAS MEASURED AT THE TIMES INDICATED. THE DEPTHS MAY VARY WITH PRECIPITATION, POROSITY OF THE SOIL, SITE TOPOGRAPHY, ETC.

4. REFUSAL AT THE SURFACE OF ROCK, BOULDER, OR OBSTRUCTION IS DEFINED AS A RESISTANCE OF 100 BLOWS FOR 2 INCHES PENETRATION OR LESS.

5. THE BORING LOGS AND RELATED INFORMATION DEPICT SUBSURFACE CONDITIONS ONLY AT THE SPECIFIC LOCATIONS AND AT THE PARTICULAR TIME WHEN DRILLED. SOIL CONDITIONS AT OTHER LOCATIONS MAY DIFFER FROM CONDITIONS OCCURRING AT THESE BORING LOCATIONS. ALSO, THE PASSAGE OF TIME MAY RESULT IN A CHANGE IN THE SUBSURFACE SOIL AND GROUNDWATER CONDITIONS AT THESE BORING LOCATIONS.

6. THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL AND ROCK TYPES AS DETERMINED FROM THE DRILLING AND SAMPLING OPERATION. SOME VARIATION MAY ALSO BE EXPECTED VERTICALLY BETWEEN SAMPLES TAKEN. THE SOIL PROFILE, WATER LEVEL OBSERVATIONS, AND PENETRATION RESISTANCES PRESENTED ON THESE BORING LOGS HAVE BEEN MADE WITH REASONABLE CARE AND ACCURACY AND MUST BE CONSIDERED ONLY AS AN APPROXIMATE REPRESENTATION OF SUBSURFACE CONDITIONS TO BE ENCOUNTERED AT THE PARTICULAR LOCATION.

7. TEST BORINGS DRILLED BY **RICHARD SIMMONS DRILLING, MOORESVILLE, NORTH CAROLINA,** UNDER THE INSPECTION OF **SCHNABEL ENGINEERING ASSOCIATES.**

8. KEY TO SYMBOLS AND ABBREVIATIONS:

	GEOPROBE CONTINUOUS CORE	DO =	DITTO
	GROUT	▼	GROUNDWATER ELEVATION
	BENTONITE SEAL		SAND FILTER
	SCREEN		

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS GRAPH	SYMBOLS LETTER	TYPICAL DESCRIPTIONS
COARSE GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
				GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
				SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES
				SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE GRAINED SOILS MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

SCHNABEL ENGINEERING ASSOCIATES
Consulting Engineers and Geologists
IDENTIFICATION OF SOIL

I. DEFINITION OF SOIL GROUP NAMES — ASTM D2487

			Symbol	Group Name
Coarse-Grained Soils More than 50% retained on No. 200 sieve	Gravels - More than 50% of coarse fraction retained on No. 4 sieve Coarse, : to 3" Fine, No. 4 to :"	Clean Gravels Less than 5% fines	GW	Well graded gravel
			GP	Poorly graded gravel
		Gravels with Fines More than 12% fines	GM	Silty gravel
			GC	Clayey gravel
	Sands - 50% or more of coarse fraction passes No. 4 sieve Coarse, No. 10 to No. 4 Medium, No. 40 to No. 10 Fine, No. 200 to No. 40	Clean Sands Less than 5% fines	SW	Well graded sand
			SP	Poorly graded sand
		Sands with Fines More than 12% fines	SM	Silty sand
			SC	Clayey sand
Fine-Grained Soils 50% or more passes the No. 200 sieve	Silts and Clays - Liquid Limit less than 50 Low to medium plasticity	Inorganic	CL	Lean clay
			ML	Silt
		Organic		Organic clay
			OL	Organic silt
	Silts and Clays - Liquid Limit 50 or more Medium to high plasticity	Inorganic	CH	Fat clay
			MH	Elastic silt
		Organic		Organic clay
			OH	Organic silt
Highly Organic Soils	Primarily organic matter, dark in color, and organic odor		PT	Peat

II. DEFINITION OF MINOR COMPONENT PROPORTIONS

Minor Component	Approximate Percentage of Fraction by Weight
Adjective Form	
Gravelly, Sandy	30 % or more coarse grained
With	
Sand, Gravel	15% or more coarse grained
Silt, Clay	5% to 12% fine grained
Trace	
Sand, Gravel	Less than 15% coarse grained
Silt, Clay	Less than 5% fine grained

III. GLOSSARY OF MISCELLANEOUS TERMS

SYMBOLS: Unified Soil Classification Symbols are shown above as group symbols. Use A Line Chart for laboratory identification. Dual symbols are used for borderline classifications.

BOULDERS & COBBLES: Boulders are considered rounded pieces of rock larger than 12 inches, while cobbles range from 3 to 12 inch size.

DISINTEGRATED ROCK: Residual rock material with Standard Penetration Resistance (SPT) of more than 60 blows per foot, and less than refusal. Refusal is defined as a SPT of 100 blows for 2" or less penetration.

ROCK FRAGMENTS: Angular pieces of rock, distinguished from transported gravel, which have separated from original vein or strata and are present in a soil matrix.

QUARTZ: A hard silica mineral often found in residual soils.

IRONITE: Iron oxide deposited within a soil layer forming cemented deposits.

CEMENTED SAND: Usually localized rock-like deposits within a soil stratum composed of sand grains cemented by calcium carbonate or other materials.

MICA: A soft plate of silica mineral found in many rocks, and in residual or transported soil derived therefrom.

ORGANIC MATERIALS (Excluding Peat):
- Topsoil - Surface soils that support plant life and which contain considerable amounts of organic matter;
- Organic Matter - Soil containing organic colloids throughout its structure;
- Lignite - Hard, brittle decomposed organic matter with low fixed carbon content (a low grade of coal).

FILL: Man-made deposit containing soil, rock and often foreign matter.

PROBABLE FILL: Soils which contain no visually detected foreign matter but which are suspect with regard to origin.

LENSES: 0 to 2 inch seam of minor soil component.

LAYERS: 2 to 12 inch seam of minor soil component.

POCKET: Discontinuous body of minor soil component.

COLOR SHADES: Light to dark to indicate substantial difference in color.

MOISTURE CONDITIONS: Wet, moist, or dry to indicate visual appearance of specimen.

WELL LOG DATABASE
SOUTHERN WOOD PIEDMONT AND NORTH CAROLINA STATE PORTS AUTHORITY WILMINGTON, NORTH CAROLINA FACILITY

WELL	INSTALL DATE	BORING TERM BLS	LAND SURFACE ELEV	TOC RISER ELEV	BOTTOM ELEV	WELL DEPTH BLS	RISER DEPTH	SCREEN INTERVAL ELEV	COORDINATES	
									NORTHING	EASTING
CW-1	11/03/81	44.80	2.90	5.62	-12.20	15.10	17.72	-12.20 to -7.20	170683.30	2317738.95
CW-2	11/04/81	48.90	4.70	7.61	-8.00	12.70	15.61	-8.00 to -3.00	170945.31	2317363.89
CW-3	11/03/81	50.00	4.20	7.12	-3.10	7.30	10.22	-3.10 to 1.90	170899.84	2316990.55
CW-4	11/04/81	49.00	4.10	6.75	-14.00	18.10	20.75	-14.00 to -9.00	171308.68	2316913.61
CW-5	11/04/81	44.00	4.20	6.57	-11.00	15.20	17.57	-11.00 to -6.00	171615.03	2318061.36
MW-6	09/05/85	20.00	3.40	5.96	-16.38	19.78	21.45	-16.38 to -6.38	171759.04	2317555.49
MW-7	09/06/85	19.80	3.87	6.63	-15.65	19.52	21.68	-15.65 to -5.65	171516.87	2317057.66
MW-8	09/09/85	19.20	4.16	7.00	-14.86	19.02	21.66	-14.86 to -4.86	171308.46	2317048.69
MW-8A	10/01/92	51.00	4.12	6.43	-26.63	30.75	33.06	-26.63 to -8.63	171307.81	2317034.99
MW-9	09/10/85	19.40	4.26	7.00	-14.96	19.22	21.39	-14.96 to -4.96	171324.83	2317300.56
MW-10	02/18/92	13.00	3.63	7.41	-6.87	10.50	14.28	-6.87 to 3.13	171060.33	2317416.43
MW-11	02/18/92	13.00	4.31	8.02	-6.19	10.50	14.21	-6.19 to 3.81	170769.34	2317497.46
MW-11A	10/01/92	50.00	4.10	6.38	-29.79	33.89	36.17	-29.79 to -24.79	170771.95	2317484.42
MW-11B	10/31/93	46.00	4.13	6.26	-38.06	42.19	44.32	-38.06 to -33.06	170762.69	2317489.76
MW-12	02/18/92	12.00	4.60	8.22	-5.90	10.50	14.12	-5.90 to 4.10	170782.73	2317389.15
MW-13	02/18/92	12.00	3.31	6.97	-7.19	10.50	14.16	-7.19 to 2.81	170721.30	2317066.52
MW-14	02/19/92	22.00	2.62	6.30	-13.38	16.00	19.68	-13.38 to -3.38	170565.41	2317675.19
MW-14A	11/02/93	42.00	2.76	5.05	-28.39	31.15	33.44	-28.39 to -23.39	170564.17	2317685.19
MW-15	02/19/92	13.00	3.26	7.07	-7.24	10.50	14.31	-7.24 to 2.76	170641.86	2317249.76
MW-16	02/19/92	13.00	3.88	7.69	-6.62	10.50	14.31	-6.62 to 3.38	170875.45	2317059.82
MW-17	02/19/92	15.00	3.86	7.65	-6.64	10.50	14.29	-6.64 to 3.36	170899.08	2317118.35
MW-18	10/07/92	14.00	4.26	6.61	-6.87	11.13	13.48	-6.87 to 3.13	171744.30	2317083.05
MW-19	10/06/92	14.00	3.19	5.44	-9.68	12.87	15.12	-9.68 to -4.68	170439.85	2317232.30
MW-19A	10/02/92	43.17	3.15	5.25	-28.02	31.17	33.27	-28.02 to -23.02	170443.47	2317244.14
MW-20	10/07/92	14.00	3.17	5.44	-9.13	12.30	14.57	-9.13 to -4.13	170921.86	2317799.93
MW-20A	11/08/93	42.00	3.10	5.23	-27.88	30.98	33.11	-27.88 to -22.88	170913.19	2317797.41
MW-21	10/07/92	10.00	3.17	5.34	-3.62	6.79	8.96	-3.62 to 1.38	171260.09	2317881.59
MW-22	10/07/92	14.00	3.02	5.26	-8.09	11.11	13.35	-8.09 to -3.09	170728.25	2316945.44
MW-22A	11/02/93	42.00	3.07	5.32	-28.79	31.86	34.11	-28.79 to 23.79	170726.23	2316955.36
MW-23	10/08/92	12.00	2.67	4.96	-6.39	9.06	11.35	-6.39 to -1.39	170355.68	2316972.19
MW-24	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned	Abandoned
MW-24R	11/12/93	14.00	3.77	5.98	-9.63	13.40	15.61	-9.63 to -4.63	170242.09	2317324.15
MW-24A	11/01/93	42.00	3.64	5.81	-30.64	34.28	36.45	-30.64 to -25.64	170240.18	2317313.97
MW-25	10/08/92	13.00	1.78	4.96	-10.27	12.05	15.23	-10.27 to -5.27	170374.77	2317662.47
MW-26	10/05/92	18.00	2.48	4.91	-15.14	17.62	20.05	-15.14 to -10.14	170529.26	2317951.33
MW-26A	11/20/00	42.0	2.5	5.11	-39.5	41.0	44.61	-33.5 to -38.5	170528.49	2317961.785
MW-27	11/13/93	9.00	3.22	5.41	-1.90	5.12	7.31	-1.90 to 3.10	171848.14	2317846.63
MW-28	11/10/93	14.00	2.97	5.18	-8.10	11.07	13.28	-8.10 to -3.10	170473.09	2318157.25
MW-28A	11/10/93	40.00	3.26	5.47	-22.42	25.68	27.89	-22.42 to -17.42	170465.44	2318161.94
MW-29	11/12/93	7.00	3.19	5.32	-4.04	7.23	9.36	-4.04 to 0.96	169681.45	2317783.77
MW-29A	11/09/93	40.00	3.15	5.14	-35.83	38.98	40.97	-35.83 to -30.83	169673.28	2317782.13
MW-30	11/12/93	10.00	4.07	6.26	-4.95	9.02	11.21	-4.95 to 0.05	169874.49	2317618.08
MW-31	11/23/96	17.00	4.25	6.63	-10.69	14.94	17.32	-10.69 to -0.69	169951.98	2316779.11
MW-32	11/24/96	44.20	3.90	6.22	-39.17	43.07	45.39	-39.17 to -34.17	169953.81	2316792.20
MW-33	12/03/96	55.00	3.65	5.92	-49.35	53.00	55.27	-49.35 to -44.35	169955.36	2316804.70
MW-34	12/03/96	15.00	5.69	8.13	-8.11	14.00	16.24	-8.11 to 1.89	169570.98	2317481.37
MW-35	12/05/96	37.00	5.27	7.71	-31.23	36.50	38.94	-31.23 to -26.23	169556.77	2317481.23
MW-36	12/08/96	52.00	5.63	7.93	-43.09	48.72	51.02	-43.09 to -38.09	169547.97	2317468.74
MW-37	12/10/96	17.00	3.40	5.97	-10.70	14.10	16.67	-10.70 to -0.70	169975.46	2318325.83
MW-38	12/10/96	27.50	3.31	5.91	-20.73	24.04	26.64	-20.73 to -15.73	169989.83	2318326.13
MW-39	12/11/96	52.00	3.28	5.75	-46.72	50.00	52.47	-46.72 to -41.72	170005.12	2318326.32
MW-40	11/20/96	16.00	5.89	8.20	-8.08	13.97	16.28	-8.08 to 1.92	171548.40	2317308.18
MW-41	11/20/96	39.50	5.48	7.66	-32.52	38.00	40.18	-32.52 to -27.52	1715477.42	2317321.99
MW-42	12/11/96	66.50	5.35	7.68	-59.22	64.57	66.90	-59.22 to -54.22	171546.36	2317337.17
MW-43	11/14/00	20.0	3.3	5.86	-16.7	19.0	22.56	-5.7 to -15.7	170746.81	2317090.98
MW-44	11/14/00	16.0	1.5	3.98	-14.5	13.0	18.48	-1.5 to -11.5	170523.84	2317586.25
MW-44A	11/21/00	41.0	1.8	4.34	-39.2	40.0	43.54	-33.2 to -38.5	170524.33	2317576.21
MW-45	11/14/00	16.0	4.7	7.25	-11.3	16.0	18.55	-1.3 to 11.3	170774.99	2317440.49
ORW-1	11/16/00	18.0	4.6	7.18	-13.4	18.0	20.58	-3.4 to -13.4	170773.81	2317447.09
SG-DD	11/21/00	-	-	2.08	-1.24	-	-	-	170523.10	2318025.06
SG-CFR T-HEAD	11/21/00	-	-	3.48	-3.16	-	-	-	171167.80	2316465.36
SG-CFR GATE	11/21/00	-	-	4.05	-2.59	-	-	-	169800.66	2316402.11
SC-GFC GATE	11/21/00	-	-	2.31	-1.01	-	-	-	169787.59	2316426.10
SC-GFC	11/21/00	-	-	2.24	-1.08	-	-	-	169517.23	2317470.63

Note:
ELEV = Elevation
TOC = Top of Casing, Top of Staff Guage
BLS = Below Land Surface
GW = Groundwater
- = Not Measured
All depths and elevations area in feet.

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **MW-26A** Contract Number: 979007.A0.26 Sheet: 1 of 2

Boring Contractor: RICHARD SIMMONS DRILLING
MOORESVILLE, NORTH CAROLINA

Boring Foreman: R. PHILLIPS #2209

Drilling Method: HOLLOW STEM AUGER

Drilling Equipment: SHRAM DEEP ROCK

SEA Representative: G. KUNTZ

Dates Started: 11/15/00 **Finished:** 11/20/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 2.40± (feet)

Groundwater Observations

	Date	Time	Depth	Casing	Caved
24 hours	11/21/00	11:30	3.66'	—	—
	2/20/01	12:00	3.67'	—	—

DEPTH (ft)	STRATA DESCRIPTION	CLASS.	ELEV. (ft)	STRATUM	SAMPLING DEPTH	SAMPLING DATA	SYMBOL	WELL CONSTRUCTION
	6" SURFACE CASING TO 20' SEE LOG FOR MW-26							
				A	5 10			Grout
16.00			-13.60		15			
				B				
20.00	GROUT		-17.60		20	GEOPROBE CONTINUOUS CORE		
20.60	DECOMPOSED WOOD, WET		-18.20					
21.30	VERY FINE TO FINE SAND, WET-DARK BROWN	SP	-18.90	C	25			Grout

continued on next page

Comments:

Schnabel Engineering Associates, Inc.

TEST BORING LOG

Project: SOUTHERN WOOD PIEDMONT
WILMINGTON, NORTH CAROLINA

Boring Number: MW-26A
Contract Number: 979007.A0.26
Sheet: 2 of 2

DEPTH (ft)	STRATA DESCRIPTION	CLASS.	ELEV. (ft)	STRATUM	SAMPLING DEPTH	SAMPLING DATA	SYMBOL	WELL CONSTRUCTION
	VERY FINE TO FINE SAND, WET-DARK BROWN *(continued)*	SP						
26.60	VERY FINE TO FINE SAND, WET-TAN		-24.20					
27.20	VERY FINE TO FINE SAND WITH ROOT MAT @ 27.6-27.8', WET-DARK BROWN		-24.80					Grout
27.80	FINE SAND, WET-TAN TO GRAY		-25.40		30			
32.00	VERY FINE TO FINE SAND, WET-LT. GRAY		-29.60	C				Bentonite
34.20	FINE TO COARSE SAND, WET-LT. GRAY		-31.80		35			Sand
								2" Stainless Steel Screen
40.00	SANDY LEAN CLAY, MOIST-DARK GRAY	SC	-37.60		40			
41.00	LEAN CLAY WITH TRACE FINE SAND, DRY-DARK GRAY	CL	-38.60	D				
42.00	BOTTOM OF BORING @ 42.00 FT.		-39.60					

SWP BORING LOG 97900799.GPJ SCHNABEL.GDT 10/18/01

Comments:

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **MW-43** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: RICHARD SIMMONS DRILLING MOORESVILLE, NORTH CAROLINA
Boring Foreman: R. PHILLIPS #2209
Drilling Method: HOLLOW STEM AUGER
Drilling Equipment: SHRAM DEEP ROCK
SEA Representative: G. KUNTZ
Dates Started: 11/14/00 **Finished:** 11/14/00
Location: SEE SITE LOCATION MAP
Ground Surface Elevation: 3.50± (feet)

Groundwater Observations

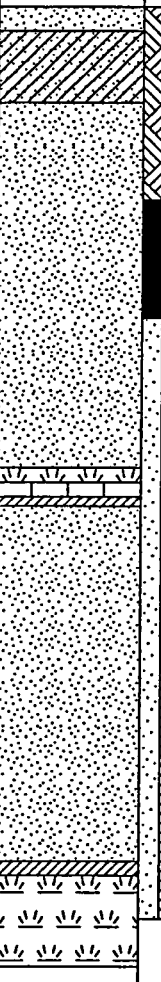
	Date	Time	Depth	Casing	Caved
24 hours	11/15/00	11:30	3.96'	—	—
	2/20/01	12:00	3.96'	—	—

DEPTH (ft)	STRATA DESCRIPTION	CLASS.	ELEV. (ft)	STRATUM
0.50	FINE SAND WITH SILT & ROOT, MOIST-DARK BROWN	SP	3.00	
	FINE TO MEDIUM CLAYEY SAND, MOIST-TAN, ORANGE & GRAY	SC		
2.00	FINE TO MEDIUM SAND, MOIST-LT. BROWN	SP	1.50	
2.90			0.60	
3.10	FINE SAND, WET-BLACK TO DARK GRAY		0.40	
	FINE TO MEDIUM SAND, WET-BROWN GRAY			
7.20			-3.70	
8.00	FINE TO COARSE SAND, WET-GRAY, CLAY BALL 8.8-8.9'		-4.50	
	MEDIUM SAND, WET-BROWN			A
9.60			-6.10	
9.90	PEAT, MOIST-DARK BROWN	PT	-6.40	
10.20	SILT WITH TRACE SAND, MOIST-DARK BROWN	ML	-6.70	
10.40	LEAN CLAY, MOIST-DARK GRAY	CL	-6.90	
	FINE TO MEDIUM SAND, WET-TAN	SP		
15.00	FINE TO MEDIUM SAND, WET-DARK BROWN		-11.50	
17.80			-14.30	
18.10	LEAN CLAY, MOIST-DARK BROWN	CL	-14.60	
	PEAT WITH CLAY, MOIST-DARK BROWN	PT		B
20.00	BOTTOM OF BORING @ 20.00 FT.		-16.50	

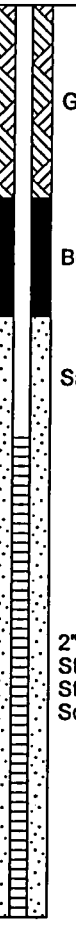
SAMPLING

DEPTH	DATA
5	GEOPROBE CONTINUOUS CORE
10	
15	
20	

SYMBOL



WELL CONSTRUCTION



Comments:

SWP BORING LOG 97900799.GPJ SCHNABEL.GDT 10/18/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **MW-44** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: RICHARD SIMMONS DRILLING
MOORESVILLE, NORTH CAROLINA

Boring Foreman: R. PHILLIPS #2209

Drilling Method: HOLLOW STEM AUGER

Drilling Equipment: SHRAM DEEP ROCK

SEA Representative: G. KUNTZ

Dates Started: 11/14/00 **Finished:** 11/14/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 1.17± (feet)

Groundwater Observations

	Date	Time	Depth	Casing	Caved
24 hours	11/15/00	11:30	2.46'	—	—
	2/22/01	12:00	2.48'	—	—

DEPTH (ft)	STRATA DESCRIPTION	CLASS.	ELEV. (ft)	STRATUM	SAMPLING DEPTH	SAMPLING DATA	SYMBOL	WELL CONSTRUCTION
0.20	PEAT, MOIST-DARK BROWN	PT	0.97			GEOPROBE CONTINUOUS CORE		Grout
0.80	FINE SAND, MOIST-LT. GRAY	SP	0.37					Bentonite
	FINE TO COARSE SAND, WET-TAN TO BROWN (FILL)							Sand
				A	5			
7.00	FINE SAND, WET-GRAY, PEAT SEAM @ 11.0-11.4'		-5.83					2" Stainless Steel Screen
					10			
12.00	CLAYEY PEAT, MOIST-DARK BROWN	PT/CL	-10.83					
				B				
14.50	PEATY LEAN CLAY WITH WOOD/ROOT, MOIST-DARK BROWN	CL/PT	-13.33		15			
16.00	BOTTOM OF BORING @ 16.00 FT.		-14.83					

Comments:

SWP BORING LOG 97900799.GPJ SCHNABEL.GDT 10/18/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **MW-44A** Contract Number: 979007.A0.26 Sheet: 1 of 2

Boring Contractor: RICHARD SIMMONS DRILLING
MOORESVILLE, NORTH CAROLINA

Boring Foreman: R. PHILLIPS #2209

Drilling Method: HOLLOW STEM AUGER

Drilling Equipment: SHRAM DEEP ROCK

SEA Representative: G. KUNTZ

Dates Started: 11/15/00 **Finished:** 11/21/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 1.80± (feet)

Groundwater Observations

	Date	Time	Depth	Casing	Caved
24 hours	11/22/00	10:40	2.62'	—	—
	2/20/01	12:00	2.60'	—	—

DEPTH (ft)	STRATA DESCRIPTION	CLASS.	ELEV. (ft)	STRATUM	SAMPLING DEPTH	SAMPLING DATA	SYMBOL	WELL CONSTRUCTION
	6" SURFACE CASING TO 16' SEE LOG FOR GP-28			A	5, 10			Grout
12.00			-10.20					
16.00	PEAT, WET-DARK BROWN	PT	-14.20	B	15, 20, 25	GEOPROBE CONTINUOUS CORE		Grout

continued on next page

Comments:

Schnabel Engineering Associates, Inc.

TEST BORING LOG

Project: SOUTHERN WOOD PIEDMONT
WILMINGTON, NORTH CAROLINA

Boring Number: MW-44A
Contract Number: 979007.A0.26
Sheet: 2 of 2

DEPTH (ft)	STRATA DESCRIPTION	CLASS.	ELEV. (ft)	STRATUM	SAMPLING DEPTH	SAMPLING DATA	SYMBOL	WELL CONSTRUCTION
	PEAT, WET-DARK BROWN *(continued)*	PT		B				Grout
28.00	FINE TO MEDIUM SAND, WET-TAN	SP	-26.20	C	30 35			Bentonite Sand 2" Stainless Steel Screen
39.00	LEAN CLAY WITH FINE SAND, MOIST-DARK GRAY	CL	-37.20	D	40			
41.00	BOTTOM OF BORING @ 41.00 FT.		-39.20					

Comments:

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **MW-45** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: RICHARD SIMMONS DRILLING
MOORESVILLE, NORTH CAROLINA

Boring Foreman: R. PHILLIPS #2209

Drilling Method: HOLLOW STEM AUGER

Drilling Equipment: SHRAM DEEP ROCK

SEA Representative: G. KUNTZ

Dates Started: 11/14/00 **Finished:** 11/14/00

Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 4.70± (feet)

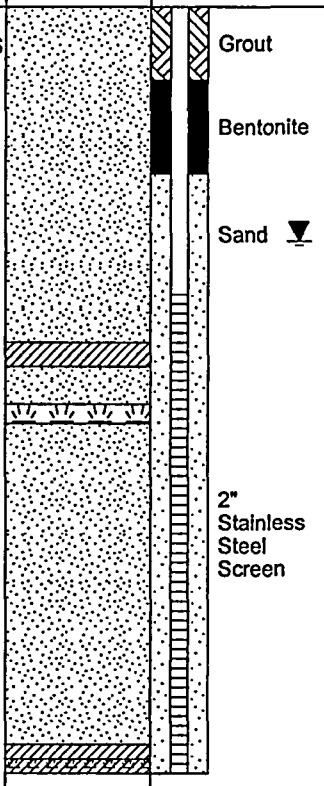
Groundwater Observations

	Date	Time	Depth	Casing	Caved
24 hours	11/15/00	11:00	4.90'	—	—
	2/20/01	12:00	4.90'	—	—

DEPTH (ft)	STRATA DESCRIPTION	CLASS.	ELEV. (ft)	STRATUM
	FINE TO MEDIUM SAND WITH ROOT, MOIST-TAN TO BROWN	SP		
1.80			2.90	
2.70	FINE SILTY SAND WITH CHARRED WOOD, MOIST-DARK BROWN TO BLACK		2.00	
2.90	FINE SAND WITH CEMENTED SHELL, MOIST-GRAY		1.80	
5.40	FINE TO COARSE SAND WITH ROCK & CHARRED WOOD, WET-DARK BROWN & BLACK		-0.70	
6.30	FINE TO MEDIUM SAND, WET-DARK BROWN		-1.60	
7.00	FINE TO VERY FINE SAND, WET-GRAY	CL	-2.30	
7.50		SP	-2.80	A
7.80	LEAN CLAY, MOIST TO WET	PT	-3.10	
8.30		SP	-3.60	
8.70	FINE TO COARSE SAND WITH WOOD, WET-DARK BROWN		-4.00	
	FINE TO MEDIUM SAND, WET-TAN TO BROWN			
11.00	PEAT, MOIST-DARK BROWN		-6.30	
	FINE TO COARSE SAND, WET-GRAY			
12.00	FINE TO MEDIUM SAND WITH SANDY CLAY SEAMS		-7.30	
	FINE TO COARSE SAND WITH WOOD, WET-DARK BROWN			
15.40			-10.70	
15.70	LEAN CLAY, MOIST-DARK BROWN	CL	-11.00	B
16.00	CLAYEY PEAT, MOIST TO WET-DARK BROWN	CL/PT	-11.30	
	BOTTOM OF BORING @ 16.00 FT.			

SAMPLING

DEPTH	DATA
5	GEOPROBE CONTINUOUS CORE
10	
15	



Comments:

SWP BORING LOG 97900799.GPJ SCHNABEL.GDT 10/18/01

Schnabel Engineering Associates, Inc.	TEST BORING LOG	Project: SOUTHERN WOOD PIEDMONT WILMINGTON, NORTH CAROLINA	Boring Number: **ORW-1** Contract Number: 979007.A0.26 Sheet: 1 of 1

Boring Contractor: RICHARD SIMMONS DRILLING MOORESVILLE, NORTH CAROLINA
Boring Foreman: R. PHILLIPS #2209
Drilling Method: HOLLOW STEM AUGER
Drilling Equipment: SHRAM DEEP ROCK
SEA Representative: G. KUNTZ
Dates Started: 11/16/00 **Finished:** 11/16/00
Location: SEE SITE LOCATION MAP

Ground Surface Elevation: 4.60± (feet)

Groundwater Observations

	Date	Time	Depth	Casing	Caved
24 hours	11/17/00	10:10	4.90'	—	—
	2/20/01	12:00	4.94'	—	—

DEPTH (ft)	STRATA DESCRIPTION	CLASS.	ELEV. (ft)	STRATUM
	FINE TO MEDIUM SAND WITH ROOT, MOIST-TAN TO BROWN	SP		
1.80	FINE SILTY SAND WITH CHARRED WOOD, MOIST-DARK BROWN TO BLACK		2.80	
2.70	FINE SAND WITH CEMENTED SHELL, MOIST-GRAY		1.90	
2.90	FINE TO COARSE SAND WITH ROCK & CHARRED WOOD, WET-DARK BROWN & BLACK		1.70	
5.40	FINE TO MEDIUM SAND, WET-DARK BROWN		-0.80	
6.30	FINE TO VERY FINE SAND, WET-GRAY		-1.70	
7.00	LEAN CLAY, MOIST TO WET	CL	-2.40	
7.50	FINE TO COARSE SAND WITH WOOD, WET-DARK BROWN	SP	-2.90	A
7.80	FINE TO MEDIUM SAND, WET-TAN TO BROWN		-3.20	
8.30	PEAT, MOIST-DARK BROWN	PT	-3.70	
8.70	FINE TO COARSE SAND, WET-GRAY	SP	-4.10	
11.00	FINE TO MEDIUM SAND WITH SANDY CLAY SEAMS		-6.40	
12.00	FINE TO COARSE SAND WITH WOOD, WET-DARK BROWN		-7.40	
15.40	LEAN CLAY, MOIST-DARK BROWN	CL	-10.80	
15.70	CLAYEY PEAT, MOIST TO WET-DARK BROWN	CL/PT	-11.10	B
18.00	BOTTOM OF BORING @ 18.00 FT.		-13.40	

SAMPLING — DEPTH: 5, 10, 15 — DATA: GEOPROBE CONTINUOUS CORE

SYMBOL

WELL CONSTRUCTION: Grout; Bentonite; Sand; 6" Stainless Steel Screen

Comments:

SWP BORING LOG 97900799.GPJ SCHNABEL.GDT 10/18/01

ATTACHMENT C

CONTENTS

PAGE NO.	REFERENCE	DATE
979007.A.23	Phase I Dioxin/Furan Sediment Sampling	10/23

Page 1 10/23/00

Project Leader: Gregory B. Kuntz

Field Sample Custodian: Gregory B. Kuntz

Sample Team Leader: Jim Massey
Danny Rawl

Sampler: Gregory B. Kuntz
Jim Massey
Danny Rawl

Transferee: Paradigm Analytical
Savannah Laboratories
Schnabel
FedEx

Laboratory Sample Custodian: Paradigm Analytical
Savannah Labs.

10/23/00

7:00 Complete Logbook and setup document control procedures.

7:45 Health and Safety Tailgate meeting.

Took Health and Safety Plan to Hospital and Fire Department

Pickup drums for waste disposal

Setup water meter on fire hydrant

Picked up sample containers at Paradigm.

11:00 Prep for sampling. Organizing bottles, set up of decon etc...

12:00 Locating sample locations and planning how to access sample locations

2:30 Finished marking sample locations.

3:00 Left site.

GBK 10/23/00

 10/24/00

7:00 Prep to sample Greenfield Creek in upstream direction using stainless steel spoon and glass bowls. Chest waders used to access sample point

10:00 Sampling Drainage ditch. Samp method as above

11:00 Stuart Parker arrived on-site. SP observed all background sampling locations and Cape Fear River at tidal gate.

12:00 Decon spoons and bowls

13:00 Sampling Cape Fear River

17:55 Left site for day.

GBK 10/24/00

7:00 Decon equipment. Fill out chain-of-custody for sample and prep for shipment to lab. Complete paperwork.

10:00 Lay out grid for geoprobe and sediment sample locations and determining area for clearing.

13:00 Taking samples to lab and FedEx. Picked up drums at Hughes Supply for disposal of Decon liquids. Went to Speak to Kenneth Todd of City of Wilmington about water meter for upcoming geoprobe and well drilling.

15:00 Back at site adding decon liquids to drum and labeling drum.

16:00 Done for day

GBK 10/25/00

7:30 Left site for Gulf rut repair.

10:00 At Gulf. Repairing ruts on Oldham's property.

15:45 Left Gulf for Columbia. Mr. Oldham approved rut repair except for 2 drainage swales and a few rough spots. Agreed to repair remaining areas and agreed to Mr. Oldham getting a tractor and disking the roads. Approved $200 to disk the roads.

19:30 At Columbia

GBK
10/26/00

7:00 Left Columbia for Wilmington to complete the DNAPL extent determination using geoprobe rig and macro core tool (2"x4') to continuously core soil and sediment to the top of peat in the vicinity of the wood treatment area, covered ditch and large storage tank area. Describing cores for visual residual and pumpable DNAPL and for soil type and odor. The depth to the top of peat will be determined and each geoprobe location will be surveyed (Horizontal and vertical). Locations will be staked until surveyed.

11:00 At site. Prep for geoprobing. NCSPA security come by and did not know about activities. I gave them my card and

they verified authorization with Layton Bedsole.

Working with Ken Todd of City of Wilmington in obtaining access to water through onsite hydrant. Ken Todd said ok to use hydrant if make application with City of Wilmington and purchase a backflow preventor and water meter to go on hydrant. He said to set it up a give him a call so he could inspect it.

13:00 ARM Environmental arrived at site and prepping to geoprobe.

Mr. Whitehead arrived onsite and I showed him areas I needed cleared. He quoted me $3000 to clear 700 linear feet

into wetland areas. He also quoted me $1,000/day for landing mats, if necessary. I called Mike Pruett for authorization. Mike Pruett gave his approval.

14:00 Had tailgate safety meeting with ARM and Schnabel.

14:30 Began first geoprobe core hole. Jim Massey observing geoprobe work and logging results while I get water meter and hydrant.

At 11:00 Henry Philips visited site and we discussed storage of hazardous materials. Mr. Philips will do weekly inspections and sent waste generation forms to Bob Lewis at SWP. I will complete forms and turn to H. Philips.

Page 10 11/1/00

15:00 Stuart Parker arrived on site.

17:30 Completed geoprobes 1-5. In production area.

18:00 Left site for day.

GBK 11/1/00

11/2/00 Page 11

7:00 At site. Continuing to geoprobe DNAPL extent determination. Will try hand operated geoprobe in marsh area today.

Clearing in marsh area beginning.

Locating buried product pipelines today with Henry Philips.

8:00 Left to get water meter supplies. Jim staying and logging geoprobe.

9:00 Back at site. Locating pipelines w/ Henry Philips.

- T-head to large storage tank
- large storage to diesel tank to boiler house.
- large storage tank to transfer pump chipper house (2 lines) Diesel & creosote

they verified authorization with Leyton Bedsole.

Working with Ken Todd of City of Wilmington in obtaining access to water through onsite hydrant. Ken Todd said ok to use hydrant if make application with City of Wilmington and purchase a backflow preventor and water meter to go on hydrant. He said to set it up a give him a call so he could inspect it.

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Page 10 11/1/00

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18:00 Left site for day.

GBK 11/1/00

11/2/00 Page 11

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Clearing in marsh area beginning.

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9:00 Back at site. Locating pipelines w/ Henry Philips.

- T-head to large storage tank
- large storage to diesel tank to boiler house.
- large storage tank to transfer pump chipper house (2 lines) Diesel & creosote

13:15 Finished locating pipeline. Jim Massey and ARM are geoprobing.

Left to go to Hugher Supply to get water meter and backflow preventer

15:30 Back at site w/water meter setup. Hookup to fire hydrant.

16:30 Left site for day. Stuart Parker at site 15:30 - 16:30

GP-C-15

GBK 11/2/00

7:00 At site. Geoprobe beginning with GP-16

8:00 Billy Whitehead here to clear and place mats in wetlands for geoprobe.

City of Wilmington arrived to inspect meter. Meter passed their inspection. Must go and make application for water service and hire an inspector to verify meter calibration.

Taking pictures of cores and double checking logs prepared by Jim Massey.

12:00 Billy Whitehead crew arrived with landing mats and excavator placing mats in wetlands for geoprobe access.

12:00 Stuart Parker on-site describing cores and photographing.

Geoprobing in wetland.

Had to go 200' into wetland to define extent.

City of Wilmington called and said I need to get water inspected.

Completed geoprobes GP-16-GP-26 today

17:00 Left site for day.

11/3/00

GBK

7:00 At site geoprobing in marsh area.

geoprobe all day

GP-27 - GP-38

GBK
11/4/00

Call SP
Call Crystal

Page 16 11/5/00

7:00 Geoprobe DNAPL extent determination. Beginning with geoprobe GP-39

Dearal Rodgers
M-206-7837 Days Inn
B-503-3333

Andy Wilson
H-799-2705
M-603-5534

16:00 Completed GP-39 - GP-49

GBK
11/5/00

11/6/00 Page 17

7:00 Geoprobing DNAPL extent. Water meter inspection today. Stuart Parker will be here today to confirm extent definition and to inspect pipelines.
Billy Whitehead crew to help with access to wetland area and to bury excavated pipeline areas.

16:00 Geoprobed GP-50 - GP-55. Hand Augered GP-56. Stuart Parker approved hand augering of GP-56 due to access.

Stuart Parker agreed that we did not need additional geoprobe south of GP-50 because it is inaccessible.

Paid City of Wilmington water application.

Page 18 11/6/00

Setup backflow prevention inspection for Monday NOV. 13 at 16:00.

Geoprobing GP-57 + GP-59.

18:00 Done for day.

GBK 11/6/00

11/7/00 Page 19

7:00 At site

13:30 Completed GP-60 — GP-70
Picked up cores and placed on plastic.

Explored the pipeline from the T-head to the large storage tanks.

Picked up trash.

14:00 left for Columbia

18:00 At Columbia

GBK
11/7/00

7:00 Left for Wilmington from Columbia

10:45 At site - Robbie D. Woods here with roll-off. Henry Phillips present

Setup roll-off with Valve system and felt liner

11:30 Went to Lowes to pick up supplies. Polyethylene tubing, barb fittings, stainless steel washers & stencils.

12:30 Back at site. Richard Simmons Drilling and Jim Maxey at site.

Setup decon pit. Picked up well materials and drums.

Attempted to turn of water and no water at hydrant. Called City of Wilmington and they said hydrant was broken

and they set up up on hydrant next to railroad track.

Gave health and safety meeting at decon area to drillers and they signed plan.

City of Wilmington arrived to check hydrant.

Decon augers and setup next to GP-46.

Started product recovery test at MW-26.

16:00 Coastline Plumbing arrived to certified the backflow preventer and the fire hydrant

Stuart Parker on site.

Having difficulty measuring product thickness in MW-26.

18:30 Done for day

GBK 11/13/00

7:00 Continuing with installation of shallow DNAPL well next to GP-46. Topot peat 17.8

Randy Phillips #2209

GP-46 - MW-43

18'8" Bottom of screen
19' Bottom of well
6.5 Top of sand
4.0 Top of bentonite
10' SS screen Deconed auger and rig

8:30 Moved to install MW-44 next to ~~MW~~ GP-28.

12'11" Bottom of well
12'7" of screen
2.0 Top of sand
1.0 of bentonite
10' SS screen

9:30 Decon auger and rig

- no spoon are collected during shallow well install because we have geoprobe locations.

Shallow wells set by drilling borehole with hollow stem augers with wood plug in lead auger. Well placed in augers to knock out plug and sand placed while pulling augers.

Shallows constructed of 10' stainless steel, #10 slot screen and PVC riser

11:30 Finished MW-45 between MW-12 and MW-13.

Deconing to set deep casing next to MW-43 that may potentially become MW-43A.

MW-45
15'10" bottom of well
15'6" bottom of screen
3.5' Top of sand
1.5 Top of bentonite

13:00 Starting surface casing at MW-43A using 8 1/4 ID & 12 1/4 OD HSA. Setting 22' of 6" PVC. Grouting using a grout shoe. Alternating between pumping grout and pulling 5' of auger.

15:15 Finished grouting MW-43A move to decon

16:00 Finish Decon
Beginning to replace casing on MW-9

17:45 left site done for day

11/14/00

GBK

7 gallons Jon

7:00 Finishing casing repair at MW-9. Driller went Hughes to pick well casing and protective casings.

Drillers helpers finishing MW-9 well repair.

Continuing with free product recovery tests in MW-26 & 14.

Starting free product test in MW-43.

Called geoprobe (ARM) and are having them come out and geoprobe through the surface casings. I decided this because it is faster, more accurate and generates less cuttings for disposal. The alternative is continuous split spooning using mud rotary. Spooning is slow, not as accurate and generates alot of waste. If no visual staining

is present in the deep geoprobes then we can abandon the geoprobes and no deep well will be installed.

Spoke with Bob Lewis of SWP about disposal of liquids. Based on anticipated volumes of liquids we decided drums are better than a frac tank.

I spoke with Stuart Parker and he agreed with me that new wells with product do not have to be developed due to the waste volume that would be generated.

Bob Lewis said that I need to collect a sample from the roll-off at end of project to create a waste profile. All organics are total analysis and metals are TCLP. Analysis is F032 & F035 for 10 times the UTS.

Bob Lewis also stated that only one waste generation form is required for all drums with the same accumulation start date.

8:00 Drill crew working on MW-8 to repair casing. Well repair is more difficult than anticipated because a six inch diameter surface casing was set to 5' at each well. Had to dig down 3' and cut casing off and protective casing. Repaired by placing 2" and 6" coupling on each pipe and placed grout and protective casing inside 6" surface casing, and then built pad and normal well completion.

9:30 Spoke to Bill Arrants, Bob Lewis and Stuart Parker. Stuart Parker approved the use of the geoprobe for the

deep exploration. Bill Arrantz said it sounds ok also.

Bob Lewis and Bill said to make effort to not get any sandy/gritty material into liquids for disposal. To accomplish this all water will be ran through the filter in the roll-off and then pumped into the drum for disposal. Need to collect three samples for disposal purposes. One sample from the solids in the roll-off, one sample from decontamination liquids and one sample from drum with free product and water.

10:30 Placed plastic with sediment trap below roll-off.

Working on replacing protector cover at MW-6 – MW-9

13:00 Setting 6-inch casing at MW-26A
Set casing to 20'

16:00 Moving to set deep casing at MW-44A
Continuing with DNAPL recovery tests.

17:00 Starting 6"-casing for MW-44A
Set casing to 16'

19:00 Done for day

11/15/00
GBK

7:00 At site. Filtering water through roll-off. Deconing from MW-44A. Washing out drum and placing filtered water back into drums. Finishing DNAPL Recovery Tests.

9:30 Building Pad at MW-8
Geoprobes GP-71 near MW-45 to set recovery well

GP-72 is through MW-43A beginning at 24'

Installed ORW-1

Bottom 17' 10 1/2" } inches
Bottom screen 17' 5"
Top of sand ~~[illegible]~~" 5.8' } 10 1/2"
Top of bent 3.5'

GP-73 by MW-26 top lower clay 41' with 2' FP on it.

Completed GP-74 next to MW-44
Residual on top of clay

Completed GP-69, 75 & 76 around pipeline - stopping to 6' at 6.9'

Deconed from ORW-1 and placed liquid in roll-off to filter

18:00 Done for day

GBK
11/16/00

7:00 At site. It is raining. Secured everything and left for Columbia

11:00 At Columbia

GBK 11/17/00

7:00 Left for Wilmington

11:00 At site. Installing staff gauge and installed deep DNAPL well MW-26A.

MW-26A

Bottom of well	40.8
Bottom screen	40.5
Top of sand	33.7
Top bentonite	29.8

5' screen stainless steel and PVC riser.

Stuart Parker on-site

Steam MW-6 & MW-7

Decon from MW-26A.

Put drilling mud in drums to let solids settle out. Will then pump into roll-off to filter out silt and place filtered water in drums.

17:30 Done for day

GBK 11/20/00

7:00 Install MW-44A

Bottom well 40'
Bottom screen 39.7'
Top of sand 32.9'
Top of bentonite 29.7'

5' screen stainless steel PVC riser

9:30 check for product in MW-26A.
No product.
Developing MW-26A in case drill mud is preventing DNAPL from entering well.
Pumped 55 gallons of water from MW-26A. Still stained water coming from well.
BB sized globules also came from well while pumping.
Sheen on water

Decon from MW-44A.

11:30 Developing MW-44A

Installing Staff gauges

MW-44A produces product.
About 50/50 product and water.

Doing product recovery test on MW-44A.

Drillers building well pads.

Solidified liquid in bottom of roll-off with bentonite.

Began solidifying the four drums of drilling mud with concrete.
Rented a concrete mixer and dumped concrete into roll-off.
Labeled all drums.
Picked up decontamination plastic and put in roll-off.

19:00 Done for day

GBK
11/21/00

7:00 At site. Product Recovery Test MW-26A. Building well pads. Site clean up. Stencil wells Solidify waste.

13:30 Left site
17:30 At Home

11/22/00
GBK

Randy Phillips NC #2209

- turn off Sun Lyght
Grout inside of MW-49 and center well inside casing which grouting
Also MW-45 & DRW-1, MW-26A

9:30 Left for Wilmington to complete Phase 2 sediment sampling

13:30 At Wilmington Picking up sample containers from Paradigm and Savannah Labs. Picked up sampling supplies from Lowe's and Wal-mart.

15:00 At Henry Phillips house sorting samples into planned sampling tasks. Labeled stakes.

17:30 Done for day

1/8/01
GBK

8:00 At site.
Unload.
Placing stakes and determining accessibility along Greenfield Creek & Drainage ditch.

Relabeled drums due to fading labels.

SS-10A and SD-45 locations need to be switched based on actual measurements in creek. SS-10A was collected during Phase I sediment sampling. SD-45 was collected during Phase II

17:30 Done for day

1/9/01
GBK

8:00 At site

Placing stakes at sample locations

Showed Bill Arnold the site

10:00 Decon for sediment sampling EPA method

12:00 Sampling sediments in Greenfield Creek

18:00 Placing waste in drum. Put labels on drum

18:30 Left for day

1/10/01
GBK

8:00 At site.

Decon, sample Cape Fear River, install staff guage and took sampler to Fedex.

Stuart Parker on site.

18:45 Done for day

GBK
1/11/01

8:00 Raining. Took sampler to Paradigm loaded up and left for Columbia.

Deconed at Columbia for next sampling event.

17:00 Done for day.

GBK.

Page 42 1/18/01

8:00 At site.
Collected Bulk composite samples SD-46, 45, 44, 43, 42 & 47.
Shipped samples.

Stuart Parker on-site 2:30-4:30.

17:00 Done for day

GBK

1/19/01 Page 43

8:00 Collecting Bulk Sediment Sample in Greenfield Park and drainage ditch

The upgradient background sample below greenfield lake had a sheen in sediments next to bank.

13:30 Left for Columbia

17:30 At Columbia

GBK

1/22/09

18:00 Left for Wilmington
22:00 At Wilmington

GBK

7:00 Prep to collect sediment samples from Greenfield Creek, drainage ditch & tributary to Greenfield Creek

15:30 Decon for tomorrow sediment sampling
Shipped sampler and took sampler to Paradigm

17:30 Done for day

GBK

8:00 Collecting sediment samples from drainage ditch

Decon

shipped samples

17:00 Done for day

GBK

7:00 Sediment sampling drainage ditch and wetland areas

16:00 Dioxin-Furan subsurface soils 55-02DF hit water at 1' so could not sample subsurface soil >2'. Will wait until Stuart Parker can select another background location

-Background wetland sample SP-39 was collected 125' west of corner of Burnett & Myers at entrance to UOPAK and NCSPA on north side of road. Sample appeared ok but a tar like substance was observed on glass bowl and spoon after sampling. Decided not to submit sample to Lab and wait until Stuart Parker can help locate a suitable background wetland location.

18:30 done for day

GBK

1/26/01

7:30 Pack up sampler for shipment to lab. Dropped off sampler to Pandrum.

11:00 Left for Columbia
15:00 At Columbia

CBK

2/12/01

12:00 Left for Wilmington
16:00 Prepping for ground water sampling
18:00

2/13/01 Ground water sampling
2/14/01 Groundwater sampling

CBK

Page 50 3/7/01

8:00 Left for Wilmington to complete field recon with Stuart Parker to decide where fish sampling activities will occur.

13:00 At site. Recon with Stuart Parker.
Mark Hale
Bryn Tracy

Salinity Greenfield Creek 0.1
Salinity

may collect only 1 yr
in Greenfield 3 trophic levels

IBI - Indentification
of Biological
creatures

- Burnt Mill at Market good
reference location

16:30 At Barnards Creek is brackish
4.0 ppt salinity
Salinity in Greenfield Creek
0.1 - 0.2 ppt

Left for Columbia

3/22/01

2:30 Resample SD-40 & SD-40-Dup.
Sample was out of hold at lab.

3/23/01
8:00 showing surveyors what needs to be surveyed.

Surveying completed 3/23 & 3/24/01.

11:00 left for Columbia.

4/23/01

8:00 Fish Tissue Sampling with John Boaze of Fish and ~~wildlife~~ Wildlife Associates.

Stuart Parker will be providing oversight activities

Mark Hale provided Oversight also

4/25/01

GBK

SWP-Wilmington - DNAPL Recovery Tests

Initial FP 1.95
Cross-coil Pump
SWP Wilmington MW-26

Time	FP	
0.00	0.10	11-14-00
0923	0.10	
0930	0.12?	
0940	0.12	0.90'/22.55 hour
1020	0.14	
1120	0.26	
1245	0.30	
1445	0.44	
0756	0.90	11-15-00
1645	0.91	
0840	1.20	11-16-00
0909	1.40	11-17-00
1405	1.95	11-21-00

$$\frac{0.9'}{22.55 \text{ hour}} = \frac{x}{24 \text{ hour}}$$

$x = 0.96'/\text{day}$

$2^{1/2}$" = .163 gal/ft × .96'

= 0.17 gal/day

11-14-00

	FP	T
	0.26	1204
	0.82	1545
44 ⊕		11-15-00
	1.55	0808
	2.70	1456

	FP	T
	3.62	1300 11/14
	3.80	1533 11/14
	3.92	0811 11/15
45 ⊕		

	FP	T
	2.75	11/14 1228
43 ⊕	3.90	1540

PP	SWP Wilmington		11-14		
5.80	MW-14	Cresote Pump			
1339	Inital FP 5.80				
Time					
1345					
0	0.18	11-14-00			
1350	0.10?				
1400	0.40?				
1410	0.30?			18 hours 50 mins	
1540	0.35				
				6.41' / 18.83 hours	
0802	0.48	11-15-00			
1641	0.32?				
0835	0.50	11-16-00			
		What's going on at MW-14?			
0902	0.45	11-17-00			
1400	0.45	11-21-00			

$$\frac{0.48'}{18.83} = \frac{x}{24} = 0.61 \frac{ft}{day} \times .163 = .10$$

SWP Wilmington 11-15-00

Creosote Pump MW-43 Initial FP 4.99

Time	FP	Date
0	4.99'	11-15-00
0850	1.25	
0853	2.91?	
0855	1.75	
0905	2.45	10 min
0915	3.08	
0925	3.67	
0935	3.85	
0945	3.98	1 hr 10 min
1000	4.10	
1030	4.23	3 hours 5 min
1155	4.47	
1439	5.09	11-21-00
0932	5.10	11-22-00

TD = 21.50

$\frac{4.47}{3.083\ hr} = \frac{x}{24} = 34.80\ \frac{ft}{hour} \times .163 = 5.67$ gal/day

$\frac{4.1'}{1.167} = \frac{x}{24} = \frac{84.32'}{day} \times .163 = 13.74$ gal/day

$\frac{4.23}{1.67} = \frac{x}{24} = \frac{60.79'}{day} \times .163 = 9.9$ gal/day

SWP Wilmington 11-15-00
Creosote Pump MW-45
Initial 3.92 TD=18.40

Time	FP	Date	
0	.47	11-15-00	
1227	.47		
1229	1.02		
1232	1.64		10 min
1237	2.58		
1242	3.00		1 hr 5 min
1252	3.30		
1302	3.41		1 hr 10 min
1332	3.70		Approx
1426	3.92	11-21-00	
0919	3.80	11-22-00	

$\frac{3.7'}{1.083 hrs} = x = \frac{81.99'}{day} \times .163 = 13.36$ gal/day

TD= 20.20

Recovery/Well/Original

11-21-00

Time	FP	Date
0835	5.90	11-21-00
1430	5.77	11-22-00
0920		

MW-26A 11-21-00

Time	FP
1411	1.45

SWP Wilmington HISW0
Cresote Pump MW-44
Initial FP 2.70 TD = 15.40

Time	FP	Date	
1525.0	0.27	11-15-00	
1530	0.60		
1535	0.82		
1540	1.28		
1550	1.59		
1600	1.70		
1630	1.92		
1745	2.32	2hr 20min	2.33hrs
0825	4.65	11-16-00	17 hour
0858	5.40	11-17-00	
1350	6.35	11-21-00	
0857	6.10	11-22-00	

$\frac{2.32}{2.33} = \frac{x}{24} = \frac{23.90'}{day} \times .163 = 3.90$ gal/day

$\frac{4.65}{17} = \frac{x}{24} = \frac{6.54'}{day} \times .163 = 1.07$ gal/day

SWP Wilmington MW-44A
Cresote Recovery Test
no Initial

TD = 47.60

Time	FP	Date
1252	0.27	11-21-00
1253	0.32	
1300	0.52	
1310	0.55	
1320	0.81	
1330	0.78?	
1345	0.85	
1415	0.87	1 hr 23 min
0855	2.90	11-22-00

$\frac{0.87'}{1.38\,hr} = \frac{x}{24} = \frac{15.13'}{day} \times .163 = 2.46$ gal/day

SWP Wilmington MW-26A

Creosote Pump 11-22-00

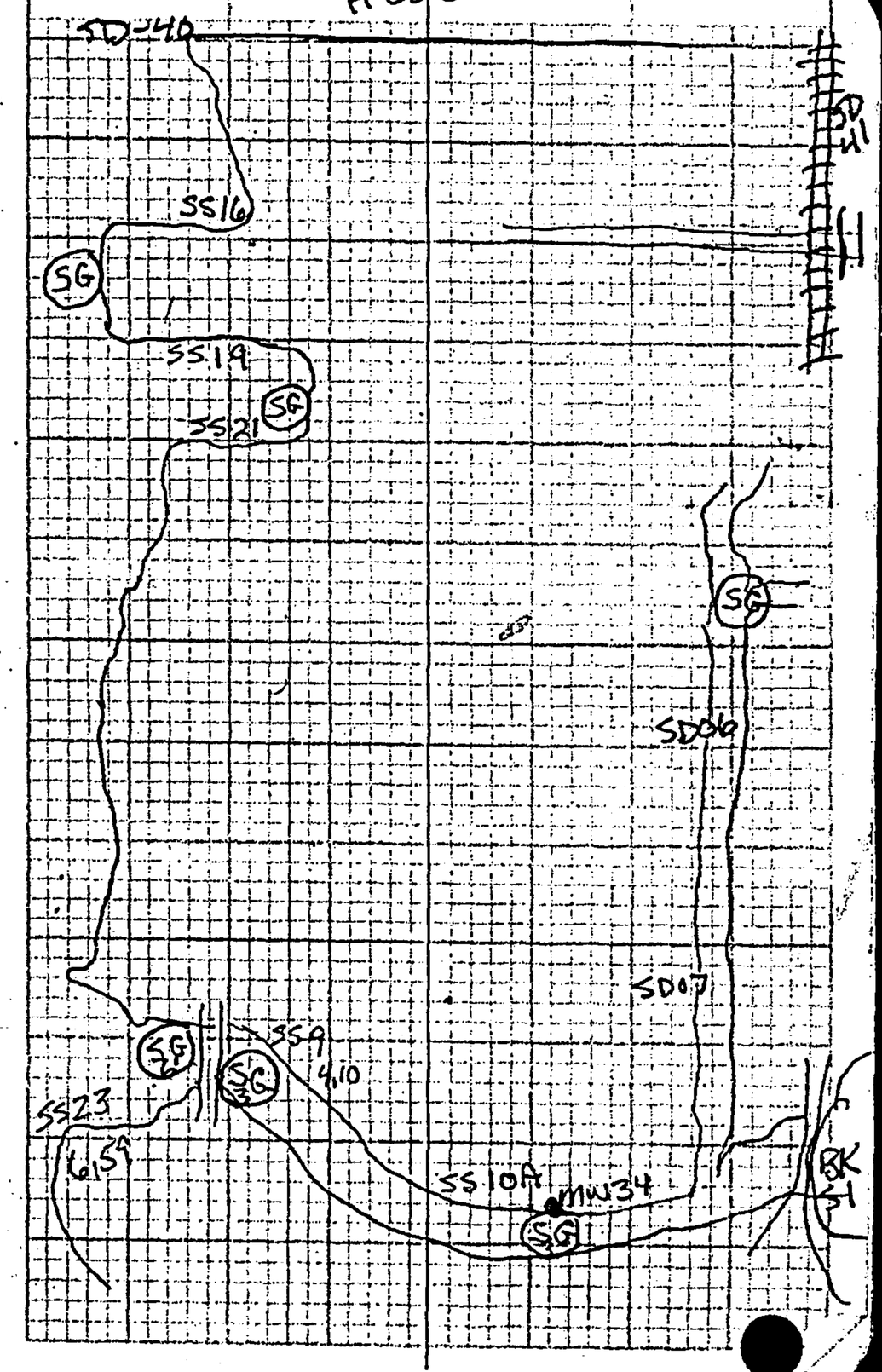
Initial = 3.29

TD = 42.90

Time	FP	Date
0810	>0.10	11-22-00
0815	0.20	
0820	0.25	
0830	0.35	
0905	0.53	

$\frac{.53'}{0.924} = \frac{x}{24} = \frac{13.83'}{day} \times .163 = 2.25$ gal/day

HESS



SOIL/SEDIMENT SAMPLE COLLECTION FIELD DATA SHEET

PROJECT NAME: SWP- Wilmington

PROJECT NUMBER: 979007.A0.23

WEATHER: clear 50°-75° F

SAMPLING METHOD: Stainless Steel Spoon & Glass Bowl

DECONTAMINATION METHOD: EPA Region IV

WASTE DISPOSAL METHOD: 55 gallon drum - labeled & placards

SAMPLE ID	DATE	TIME	DEPTH	ODOR	STAIN	FIELD SCREENING	SAMPLE DESCRIPTION	LOCATION/ DESCRIPTION	SAMP. INT.	pH	Ox
SS 9 DF	10/24 2000	8:00	0" 1 3"	very slight	little	11.5	Top 1/2" leaf matte and sediments. 1/2"-3" silty fine to medium sand, gray -wet	Greenfield Creek 50' upstream of Tidal Gate	GBK JHM	6.4	02
SS 10A DF	10/24 2000	8:55	0" 1 3"	Moderate	Yes	>1999	DO, except 6"-10" leaf matte and sediments >10" fine to medium silty sand, gray-wet	Greenfield Creek 100' downstream of creek bend	GBK JHM	7.3	-04
SD 07 DF	10/24 2000	10:10	0" 1 3"	Moderate	Yes	443	Top 1/2" leaf matte and roots, Silt w trace fine sand, brown-wet	Drainage Ditch at pipe crossing	GBK JHM	6.7	19
SD 06 DF	10/24 2000	11:00	0" 1 3"	Moderate	Yes	1211	Top 1" leaf matte. Silty fine to medium sand, dark brown-wet	Drainage Ditch 75' feet upstream of confluence with ditch south of covered ditch	GBK JHM	7.0	-0
SD 41 DF	10/24 2000	12:45	0" 1 3"	no	no	4.8	Top 2" leaf matte and roots. Silty sediment w/ fine to medium sand, dark brown-wet	Wooded area north side of entrance road to site 100' down railroad track to north. 30' east into woods. Background Drainage Ditch Sample	GBK JHM	6.7	-0

Check When Complete:

- X Bottles Labeled
- X Samples Iced
- X Sample Location Staked
- X Copy Of All Field Notes Sent With Sample To Lab
- X Lot Numbers Obtained For Samples
- X Samples Shipped For Overnight Delivery
- ___ Confirmed Samples Arrived At Lab
- X Data Recorded With Indelible Pen
- X Custody Form Completed
- X Sample Shipper Sealed
- X All Sampling Derived Waste Disposed Of Properly

Collector's Signature: Gregg B. Kuth

Date: 10/24/00

PAGE 1 OF 3

SOIL/SEDIMENT SAMPLE COLLECTION FIELD DATA SHEET

PROJECT NAME: SWP-Wilmington

PROJECT NUMBER: 979001.A0.23

WEATHER: clear 50°-70°

SAMPLING METHOD: Stainless Steel Spoon & Glass Bowl

DECONTAMINATION METHOD: EPA Region IV

WASTE DISPOSAL METHOD: 55-gallon drums - labeled & placards

SAMPLE ID	DATE	TIME	DEPTH	ODOR	STAIN	FIELD SCREENING	SAMPLE DESCRIPTION	LOCATION/ DESCRIPTION	SAMP. INT.	pH	ORP
BK 51 DF	10/24 2000	13:40	0" 1 3"	No	No	13.5	Fine Sand trace silt, brown-wet	Below Greenfield Lake Dam next to road 10' above block weir on south side	GBK JHM	6.6	-016
Equip 102400 DF	10/24 2000	14:45	← Equipment Blank →					Performed at Gate to site.	GBK JHM		
SS 23 DF	10/24 2000	1540	0" 1 3"	NO	NO	1190	0"-2" Silty CLAY w/ Trace SAND - WET - DARK GRAY 2"-3" F SAND. WET - GRAY	Cape Fear River. 150' downstream of tidal gate off south bank near concrete.	GBK JHM	7.0	007
SS 21 DF	10/24 2000	1615	0" 1 3"	NO	NO	21.7	fine to medium sand brown-gray-wet	South slip on south bank 200' from east end of slip	GBK JHM	6.7	057
SS 19 DF	10/24 2000	1640	0" 1 3"	slight	NO	7.2	fine to medium sand brown-gray-wet	South slip on north bank 200' from east end of slip	GBK JHM	6.8	093

Check When Complete:

- _____ Bottles Labeled
- _____ Samples Iced
- _____ Sample Location Staked
- _____ Copy Of All Field Notes Sent With Sample To Lab
- _____ Lot Numbers Obtained For Samples
- _____ Samples Shipped For Overnight Delivery
- _____ Confirmed Samples Arrived At Lab
- _____ Data Recorded With Indelible Pen
- _____ Custody Form Completed
- _____ Sample Shipper Sealed
- _____ All Sampling Derived Waste Disposed Of Properly

Collector's Signature: Gregory B. Kirby

Date: 10/24/00

SOIL/SEDIMENT SAMPLE COLLECTION FIELD DATA SHEET

PROJECT NAME: SWP-Wilmington

SAMPLING METHOD: Stainless Steel Spoon & Glass Bowl

PROJECT NUMBER: 979007.A0.23

DECONTAMINATION METHOD: EPA Region IV

WEATHER: Clear 50°-70°F

WASTE DISPOSAL METHOD: 55-gallon drum - labeled and placarded

SAMPLE ID	DATE	TIME	DEPTH	ODOR	STAIN	FIELD SCREENING	SAMPLE DESCRIPTION	LOCATION/ DESCRIPTION	SAMP. INT.	pH	OR
SS 16 DF	10/24 2000	1700	0" 1 3"	no	NO	4.6	Silty, fine to medium sand, brown - wet	North slip on south bank 75' from east end of slip	GBK JHM	6.2	04
SD 40 DF	10/24 2000	17:30	0" 1 3"	no	NO	25.5	fine to medium sand with roots, brown - wet	Background Cape Fear River. 500' North of north drainage ditch in front of Hess facility	GBK JHM	6.5	04
SD 40 DF-DUP	10/24 2000	17:30	6" 1 3"	no	no	"	"	"	GBK JHM	6.5	048
SS 2 DF	2/19/01	16:30	2.2'	no	no	—	Silt with sand, dark brown - moist	Optimist Park - next to Williams Field sign at south end of park	GBK		

Check When Complete:

- _____ Bottles Labeled
- _____ Samples Iced
- _____ Sample Location Staked
- _____ Copy Of All Field Notes Sent With Sample To Lab
- _____ Lot Numbers Obtained For Samples
- _____ Samples Shipped For Overnight Delivery
- _____ Confirmed Samples Arrived At Lab
- _____ Data Recorded With Indelible Pen
- _____ Custody Form Completed
- _____ Sample Shipper Sealed
- _____ All Sampling Derived Waste Disposed Of Properly

Collector's Signature: Gregg B. Kurtz

Date: 10/24/00

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SOIL/SEDIMENT SAMPLE COLLECTION FIELD DATA SHEET

PROJECT NAME: SWP-Wilmington

PROJECT NUMBER: 979007.A0-27

WEATHER: clear - 50°

SAMPLING METHOD: Stainless Steel Spoon & Glass Bowl

DECONTAMINATION METHOD: Region IV EPA Method

WASTE DISPOSAL METHOD: Drum & off-site Disposal

SAMPLE ID	DATE	TIME	DEPTH	ODOR	STAIN	FIELD SCREENING pH	FIELD SCREENING ORP	SAMPLE DESCRIPTION	LOCATION/ DESCRIPTION	SAMP. INT.
SD 35	1/10/01	13:00	0-3"	—	—	6.8	346 ~~1008~~	Fine sand with silt, dark brown-wet 30% organics	Greenfield Creek 200' upstream of tidal gate	GBK
SD 34	1/10/01	14:05	0-3"	—	—	6.1	213	"	Greenfield Creek 400' upstream from tidal gate	GBK
SD 09	1/10/01	14:30	0-3"	slight	sheen	6.4	258	Fine to medium sand, with ~~trace~~ silt - brown - wet 5% organics	Greenfield Creek 600' upstream from Tidal Gate	GBK
SD 33	1/10/01	14:55	0-3"	—	—	6.6	258	Fine to medium sand, brown-wet trace organics	Greenfield Creek 1000' upstream of tidal Gate	GBK
SD 32	1/10/01	15:20	0-3"	—	small patch sheen	6.3	277	fine sand with silt, dark brown-wet 20% organics	Greenfield Creek 1200' upstream of tidal gate	GBK

Check When Complete:

- X Bottles Labeled
- X Samples Iced
- X Sample Location Staked
- X Copy Of All Field Notes Sent With Sample To Lab
- X Lot Numbers Obtained For Samples
- X Samples Shipped For Overnight Delivery
- ___ Confirmed Samples Arrived At Lab
- X Data Recorded With Indelible Pen
- X Custody Form Completed
- X Sample Shipper Sealed
- X All Sampling Derived Waste Disposed Of Properly

Collector's Signature: Gregory B. Kuntz

Date: 1/10/01

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SOIL/SEDIMENT SAMPLE COLLECTION FIELD DATA SHEET

PROJECT NAME: SWP-Wilmington

PROJECT NUMBER: 979007.A0-27

WEATHER: clear - 45°

SAMPLING METHOD: Stainless Steel Spoon & Glass Bowl

DECONTAMINATION METHOD: Region IV EPA Method

WASTE DISPOSAL METHOD: Drum & off-site Disposal

SAMPLE ID	DATE	TIME	DEPTH	ODOR	STAIN	FIELD SCREENING pH	FIELD SCREENING ORP	SAMPLE DESCRIPTION	LOCATION/ DESCRIPTION	SAMP. INT.
~~SD~~ SS 11	1/10/01	~~15:35~~ 16:10	0"-3"	—	—	6.8	332	fine to medium sand, trace silt, brown-wet trace gravel 1% organics	Greenfield Creek 1400' upstream of tidal gate	GBK
SD 31	1/10/01	15:35	0"-3"	—	—	6.9	313	Fine to medium sand, trace silt, brown-wet 5% organics	Greenfield Creek 1500' upstream of tidal gate	GBK
SD 30	1/10/01	16:50	0"-3"	—	—	6.2	177	Silt with fine sand, dark brown-wet 5% organics	Greenfield Creek 1700' upstream of tidal gate	GBK
SS 24	1/11/01	12:30	0"-3"	—	—	7.0	300	Fine sand, trace silt brown-wet	Cape Fear River downstream end of NC State Ports	GBK
SD 10	1/11/01	13:10	0"-3"	—	little sheen	6.8	243	Silt, trace sand, root matt dark brown-wet 30% organics	Cape Fear River 50' downstream of tidal gate	GBK

Check When Complete:

- X Bottles Labeled
- X Samples Iced
- X Sample Location Staked
- X Copy Of All Field Notes Sent With Sample To Lab
- X Lot Numbers Obtained For Samples
- X Samples Shipped For Overnight Delivery
- ___ Confirmed Samples Arrived At Lab
- X Data Recorded With Indelible Pen
- X Custody Form Completed
- X Sample Shipper Sealed
- X All Sampling Derived Waste Disposed Of Properly

Collector's Signature: Gregory B. Kurtz

Date: 1/11/01

SOIL/SEDIMENT SAMPLE COLLECTION FIELD DATA SHEET

PROJECT NAME: SWP-Wilmington

PROJECT NUMBER: 979007.A0-27

WEATHER: clear 60°

SAMPLING METHOD: Stainless Steel Spoon & Glass Bowl

DECONTAMINATION METHOD: Region IV EPA Method

WASTE DISPOSAL METHOD: Drum & off-site Disposal

SAMPLE ID	DATE	TIME	DEPTH	ODOR	STAIN	FIELD SCREENING pH	FIELD SCREENING ORP	SAMPLE DESCRIPTION	LOCATION/ DESCRIPTION	SAMP. INT.
SS 22	1/11/01	13:35	0-3"	—	—	7.3	230	Fine sand with silt, root matte, brown-wet, 5% organics	Cape Fear River 150' south of south slip	GBK
SS 20	1/11/01	14:00	0"-3"	—	—	7.3	~~67~~ -67	Silt, trace fine sand, br & 6" Baby EEL found in sample alive, healthy	Cape Fear River in mouth of south slip	GBK
SD 11	1/11/01	14:20	0"-3"	—	—	7.3	-51	"	Cape Fear River in middle of south slip	GBK
SS 18	1/11/01	14:45	0"-3"	very slight	Sheen	7.3	17	Silty sand, dark brown-wet	Cape Fear River at T-head	GBK
SS 17	1/11/01	15:10	0"-3"	—	—	7.6	128	Fine sand, brown-wet	Cape Fear River in north slip at mouth.	GBK

Check When Complete:

- _____ Bottles Labeled
- _____ Samples Iced
- _____ Sample Location Staked
- _____ Copy Of All Field Notes Sent With Sample To Lab
- _____ Lot Numbers Obtained For Samples
- _____ Samples Shipped For Overnight Delivery
- _____ Confirmed Samples Arrived At Lab
- _____ Data Recorded With Indelible Pen
- _____ Custody Form Completed
- _____ Sample Shipper Sealed
- _____ All Sampling Derived Waste Disposed Of Properly

Collector's Signature: Gregory B. Kurtz

Date: 1/11/01

PAGE 3 OF 13

SOIL/SEDIMENT SAMPLE COLLECTION FIELD DATA SHEET

PROJECT NAME: SWP-Wilmington

PROJECT NUMBER: 979007.A0-27

WEATHER:

SAMPLING METHOD: Stainless Steel Spoon & Glass Bowl

DECONTAMINATION METHOD: Region IV EPA Method

WASTE DISPOSAL METHOD: Drum & off-site Disposal

SAMPLE ID	DATE	TIME	DEPTH	ODOR	STAIN	FIELD SCREENING pH	FIELD SCREENING ORP	SAMPLE DESCRIPTION	LOCATION/ DESCRIPTION	SAMP. INT.
SS 15	1/11/01	15:45	0"-3"	—	—	7.4	159	Silty fine sand, brown wet	Cape Fear River at mouth of North drainage ditch	GBK
SD 40	1/11/01	16:15	0"-3"	—	—	7.0	-69	Silt, trace fine sand brown-wet	Cape Fear River 500' north of north drainage ditch	GBK
SD 40 Dup	1/11/01	16:30	0"-3"	—	—	7.0	-69	"	"	GBK
SD 46 Comp	1/18/01	9:45	0"-3"	slight	sheen	6.8	252	Sand f-c, brown, wet	Greenfield Creek 30' upstream of tidal Gate	GBK
SD 45 Comp	1/18/01	11:00	0"-3"	slight	sheen	6.2	-17	Silty fine to medium sand, brown, wet	Greenfield Creek 20' downstream of SD09	GBK

Check When Complete:

- _____ Bottles Labeled
- _____ Samples Iced
- _____ Sample Location Staked
- _____ Copy Of All Field Notes Sent With Sample To Lab
- _____ Lot Numbers Obtained For Samples
- _____ Samples Shipped For Overnight Delivery
- _____ Confirmed Samples Arrived At Lab
- _____ Data Recorded With Indelible Pen
- _____ Custody Form Completed
- _____ Sample Shipper Sealed
- _____ All Sampling Derived Waste Disposed Of Properly

Collector's Signature: Gregory B. Kurtz

Date: 1/18/01

SOIL/SEDIMENT SAMPLE COLLECTION FIELD DATA SHEET

PROJECT NAME: SWP-Wilmington

PROJECT NUMBER: 979007.A0-27

WEATHER:

SAMPLING METHOD: Stainless Steel Spoon & Glass Bowl

DECONTAMINATION METHOD: Region IV EPA Method

WASTE DISPOSAL METHOD: Drum & off-site Disposal

SAMPLE ID	DATE	TIME	DEPTH	ODOR	STAIN	FIELD SCREENING pH	FIELD SCREENING ORP	SAMPLE DESCRIPTION	LOCATION/ DESCRIPTION	SAMP. INT.
SD 44 comp	1/18/01	12:30	0"-3"	slight	sheen	6.7	-74	Fine to medium sand, ~~[illegible]~~ 5% organics brown, wet	Greenfield Creek 100' downstream of drainage ditch	GBK
SD 43 comp	1/18/01	13:30	0"-3"	strong	abundant	6.4	102	fine sandy silt, 20% organics, dark gray wet	Drainage ditch 100' upstream of Greenfield Creek	GBK
SD 42 comp	1/19/01	14:30	0"-3"	strong	abundant	6.5	-71	silt & peat, 50% organics, dark gray to black - wet	Drainage ditch 100' down stream from MW-26	GBK
SD 47 comp	1/18/01	15:35	0"-3"	no	sheen	7.6	103	fine silty sand, 5% organics - brown, wet	Greenfield Creek 100' below dam on Greenfield Lake	GBK
SD 30 Dup	1/23/01	9:30	0"-3"	no	no	5.9	69	Silt with fine sand, 30% organics, dark brown, wet	Greenfield Creek 100' downstream of confluence with drainage ditch	GBK

Check When Complete:

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- _____ Samples Shipped For Overnight Delivery
- _____ Confirmed Samples Arrived At Lab
- _____ Data Recorded With Indelible Pen
- _____ Custody Form Completed
- _____ Sample Shipper Sealed
- _____ All Sampling Derived Waste Disposed Of Properly

Collector's Signature: Gregory B. Kurtz

Date: 1/23/01

SOIL/SEDIMENT SAMPLE COLLECTION FIELD DATA SHEET

PROJECT NAME: SWP-Wilmington

PROJECT NUMBER: 979007.A0-27

WEATHER: cloudy 45°

SAMPLING METHOD: Stainless Steel Spoon & Glass Bowl

DECONTAMINATION METHOD: Region IV EPA Method

WASTE DISPOSAL METHOD: Drum & off-site Disposal

SAMPLE ID	DATE	TIME	DEPTH	ODOR	STAIN	FIELD SCREENING pH	FIELD SCREENING ORP	SAMPLE DESCRIPTION	LOCATION/ DESCRIPTION	SAMP. INT.
SD 29	1/23/01	10:00	0"-3"	—	—	6.6	157	silty fine sand, brown-wet 5% organics	Drainage ditch 100' upstream from confluence with Greenfield Creek	GBK
SD 8	1/23/01	10:25	0"-3"	—	—	6.1	66	Silt with fine sand dark brown-wet, 10% organics	Greenfield Creek at confluence with drainage ditch	GBK
SS 12	1/23/01	10:45	0"-3"	—	—	6.2	109	Silt with fine sand, dark brown-wet 10% organics	Tributary Creek to Greenfield Creek 100' upstream of drainage ditch. Sample collected 50' up tributary	GBK
SS 13	1/23/01	11:10	0"-3"	—	—	6.1	120	Sandy silt, fine, dark brown-wet 10% organics	" Sample collected 450' up tributary	GBK
SS 1	1/23/01	12:15	0"-3"	—	—	6.7	135	fine sandy silt, dark brown-wet, 10% organics	Greenfield Creek adjacent to east side of railroad tracks	GBK

Check When Complete:

- _____ Bottles Labeled
- _____ Samples Iced
- _____ Sample Location Staked
- _____ Copy Of All Field Notes Sent With Sample To Lab
- _____ Lot Numbers Obtained For Samples
- _____ Samples Shipped For Overnight Delivery
- _____ Confirmed Samples Arrived At Lab
- _____ Data Recorded With Indelible Pen
- _____ Custody Form Completed
- _____ Sample Shipper Sealed
- _____ All Sampling Derived Waste Disposed Of Properly

Collector's Signature: Gregory B. K[illegible]

Date: 1/23/01

SOIL/SEDIMENT SAMPLE COLLECTION FIELD DATA SHEET

E: SWP-Wilmington

BER: 979007.A0-27

cloudy 45°

SAMPLING METHOD: Stainless Steel Spoon & Glass Bowl

DECONTAMINATION METHOD: Region IV EPA Method

WASTE DISPOSAL METHOD: Drum & off-site Disposal

SAMPLE TIME	SAMPLE DEPTH	SAMPLE ODOR	SAMPLE STAIN	FIELD SCREENING pH	FIELD SCREENING ORP	SAMPLE DESCRIPTION	LOCATION/ DESCRIPTION	SAMP. INT.
12:35	0"-3"	—	—	6.3	68	Silt with fine sand, dark brown-wet, 10% organics	In wetland adjacent to drainage ditch where sewer pipe crosses ditch	GBK
13:05	0"-3"	strong	abundant	6.1	33	fine sandy silt, dark brown-wet, 10% organics	Drainage ditch 100' upstream of sewer pipe	GBK
13:30	0"-3"	strong	abundant	6.3	35	silt with fine sand, dark brown-wet, 15% organics	Drainage ditch 300' upstream of sewer pipe	GBK
14:20	0"-3"	strong	abundant	6.3	60	fine sandy silt & peat 40% organics - dark brown-wet	Drainage ditch 50' downstream of confluence with other on site drainage ditch	GBK
8:15	0"-3"	strong	abundant	7.2 6.9	~~314~~ -108	fine sandy silt, 20% organics, dark brown-wet	Drainage ditch at confluence with other on-site drainage ditch	GBK

omplete:

- Labeled
- es Iced
- e Location Staked
- f All Field Notes Sent With Sample To Lab
- mbers Obtained For Samples
- es Shipped For Overnight Delivery
- ed Samples Arrived At Lab
- ecorded With Indelible Pen
- y Form Completed
- e Shipper Sealed
- mpling Derived Waste Disposed Of Properly

Collector's Signature: Gregory B. Kirby

Date: 1/24/01

PAGE 7 OF 13

SOIL/SEDIMENT SAMPLE COLLECTION FIELD DATA SHEET

PROJECT NAME: SWP-Wilmington

PROJECT NUMBER: 979007.A0-27

WEATHER:

SAMPLING METHOD: Stainless Steel Spoon & Glass Bowl

DECONTAMINATION METHOD: Region IV EPA Method

WASTE DISPOSAL METHOD: Drum & off-site Disposal

SAMPLE ID	DATE	TIME	DEPTH	ODOR	STAIN	FIELD SCREENING pH	FIELD SCREENING ORP	SAMPLE DESCRIPTION	LOCATION/ DESCRIPTION	SAMP. INT.
SS 2	1/24/01	8:45	0"-3"	slight faint diesel	moderate	7.0	-167	fine sandy silt, 30% organics, dark brown-wet	Optimist Park drainage ditch 50' upstream of railroad tracks	GBK
SD 22	1/24/01	9:25	0"-3"	no	little sheen	7.2	7	fine sand with silt, 2% organics, brown-wet	Optimist Park drainage ditch 250' upstream of railroad tracks	GBK
SD 21	1/24/01	10:00	0"-3"	no	no	7.4	21	fine to coarse sand, 5% granular, trace shells, brown-wet	Optimist Park drainage ditch 450' upstream of railroad tracks	GBK
SD 03	1/24/01	10:20	0"-3"	no	no	7.3	15	fine to coarse sand, 5% granular, trace shells brown-wet	Optimist Park drainage ditch 650' upstream of railroad tracks	GBK
SS 3	1/24/01	10:45	0"-3"	sewer odor	no	6.8	-55	fine sandy sand, 5% organics, dark brown-wet	Drainage ditch of south side of entrance road to site. Corner of Front & Greenfield Street	GBK

Check When Complete:

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- _____ Confirmed Samples Arrived At Lab
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- _____ Custody Form Completed
- _____ Sample Shipper Sealed
- _____ All Sampling Derived Waste Disposed Of Properly

Collector's Signature: Gregory B. Kurtz

Date: 1/24/01

SOIL/SEDIMENT SAMPLE COLLECTION FIELD DATA SHEET

PROJECT NAME: SWP-Wilmington

PROJECT NUMBER: 979007.A0-27

WEATHER:

SAMPLING METHOD: Stainless Steel Spoon & Glass Bowl

DECONTAMINATION METHOD: Region IV EPA Method

WASTE DISPOSAL METHOD: Drum & off-site Disposal

SAMPLE ID	DATE	TIME	DEPTH	ODOR	STAIN	FIELD SCREENING pH	FIELD SCREENING ORP	SAMPLE DESCRIPTION	LOCATION/ DESCRIPTION	SAMP. INT.
SS 4	1/24/01	11:10	0"-3"	strong	abundant	7.0	-50	clay & peat with fine sand, 20% organics dark brown-wet	Confluence of Drainage ditch and drainage ditch south side of covered ditch	GBK
SS 6	1/24/01	11:30	0"-3"	strong	abundant	6.8	-36	Silt with fine sand, 5% organics, black-wet	Drainage ditch south of covered ditch.	GBK
SS 5	1/24/01	11:55	0"-3"	slight	little	7.1	-134	medium to coarse sand, trace organics, brown-wet	Drainage ditch south of covered ditch	GBK
SD 25	1/24/01	12:30	0"-3"	slight	little	6.7	-60	gravelly fine to coarse sand, 5% organics dark brown-wet	Drainage ditch north of covered ditch adjacent to pipe under former railroad spur	GBK
SD 13	1/25/01	7:30	0"-3"	no	no	5.2	287	Silt, trace fine sand, dark brown-moist	Wetland area west of drainage ditch in non-treated wood storage area B	GBK

Check When Complete:

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- _____ Custody Form Completed
- _____ Sample Shipper Sealed
- _____ All Sampling Derived Waste Disposed Of Properly

Collector's Signature: Gregory B. Kurtz

Date: 1/25/01

SOIL/SEDIMENT SAMPLE COLLECTION FIELD DATA SHEET

PROJECT NAME: SWP-Wilmington

SAMPLING METHOD: Stainless Steel Spoon & Glass Bowl

PROJECT NUMBER: 979007.A0-27

DECONTAMINATION METHOD: Region IV EPA Method

WEATHER:

WASTE DISPOSAL METHOD: Drum & off-site Disposal

SAMPLE ID	DATE	TIME	DEPTH	ODOR	STAIN	FIELD SCREENING pH	FIELD SCREENING ORP	SAMPLE DESCRIPTION	LOCATION/ DESCRIPTION	SAMP. INT.
SD 24	1/25/01	7:50	0"-3"	no	little sheen	6.4	49	Silt with fine sand, 20% organics; brown-wet	Drainage ditch 350' north of covered ditch	GBK
SD 23	1/25/01	8:30	0"-3"	no	no	6.4	26	fine sandy silt, 10% organics, dark brown-wet	Drainage ditch 550' north of covered ditch	GBK
SD 05	1/25/01	8:50	0"-3"	no	no	7.1	-165	Silt & Peat, trace fine sand, dark brown-wet	Drainage ditch 750' north of covered ditch, adjacent to site entrance road.	GBK
SD 41	1/25/01	9:30	0"-3"	no	no	6.9	-54	Silt w/fine sand, 5% organics dark brown, wet	Background wetland area east side of railroad track east of non-treated wood storage area A.	GBK
SD 38	1/25/01	9:55	0"-3"	no	no	5.8	235	Silt with very fine sand, 10% organics, brown-wet	Wetland area 350' south of covered ditch and 100' west of drainage ditch	GBK

Check When Complete:

- _____ Bottles Labeled
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- _____ Lot Numbers Obtained For Samples
- _____ Samples Shipped For Overnight Delivery
- _____ Confirmed Samples Arrived At Lab
- _____ Data Recorded With Indelible Pen
- _____ Custody Form Completed
- _____ Sample Shipper Sealed
- _____ All Sampling Derived Waste Disposed Of Properly

Collector's Signature: Gregory B. Kurtz

Date: 1/25/01

SOIL/SEDIMENT SAMPLE COLLECTION FIELD DATA SHEET

PROJECT NAME: SWP-Wilmington

PROJECT NUMBER: 979007.A0-27

WEATHER:

SAMPLING METHOD: Stainless Steel Spoon & Glass Bowl

DECONTAMINATION METHOD: Region IV EPA Method

WASTE DISPOSAL METHOD: Drum & off-site Disposal

SAMPLE ID	DATE	TIME	DEPTH	ODOR	STAIN	FIELD SCREENING pH	FIELD SCREENING ORP	SAMPLE DESCRIPTION	LOCATION/ DESCRIPTION	SAMP. INT.
SD 36	1/25/01	10:40	0"-3"	no	no	5.7	102	silt with fine sand, 10% organics, dark brown-wet	Wetland area 350' south of covered ditch and 250' west of drainage ditch	GBK
SD 37	1/25/01	11:00	0"-3"	no	no	5.7	214	silt with very fine sand, 10% organics, brown-wet	Wetland area 150' south of covered ditch and 250' west of drainage ditch	GBK
SD 14	1/25/01	11:25	0"-3"	no	no	5.8	145	Silt, 25% organics dark brown, wet	Wetland area 150' south of covered ditch and 100' west of drainage ditch	GBK
SD 19	1/25/01	12:10	0"-3"	no	no	6.1	72	fine sandy silt, brown-moist	Wetland area 200' east of tidal gate adjacent to Greenfield Creek	GBK
SD 18	1/25/01	13:20	0"-3"	no	no	5.6	285	silty fine sand, 20% organics, brown-moist	Wetland area 80' north of tidal gate	GBK

Check When Complete:

- _____ Bottles Labeled
- _____ Samples Iced
- _____ Sample Location Staked
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- _____ Lot Numbers Obtained For Samples
- _____ Samples Shipped For Overnight Delivery
- _____ Confirmed Samples Arrived At Lab
- _____ Data Recorded With Indelible Pen
- _____ Custody Form Completed
- _____ Sample Shipper Sealed
- _____ All Sampling Derived Waste Disposed Of Properly

Collector's Signature: Gregory B. Kirby

Date: 1/25/01

SOIL/SEDIMENT SAMPLE COLLECTION FIELD DATA SHEET

PROJECT NAME: SWP-Wilmington

PROJECT NUMBER: 979007.A0-27

WEATHER:

SAMPLING METHOD: Stainless Steel Spoon & Glass Bowl

DECONTAMINATION METHOD: Region IV EPA Method

WASTE DISPOSAL METHOD: Drum & off-site Disposal

SAMPLE ID	DATE	TIME	DEPTH	ODOR	STAIN	FIELD SCREENING pH	FIELD SCREENING ORP	SAMPLE DESCRIPTION	LOCATION/ DESCRIPTION	SAMP. INT.
SD 17	1/25/01	13:45	0"-3"	no	no	5.1	340	fine to coarse sand & Peat, brown ~~wet~~ moist	Wetland area 250' northeast of tidal gate	GBK
SD 16	1/25/01	14:05	0"-3"	no	no	5.1	420	fine to coarse sand & peat, brown moist	Wetland area 600' northeast of tidal gate	GBK
SD 15	1/25/01	14:30	0"-3"	no	no	5.8	175	Silt & Peat, brown - wet	Wetland area 800' northeast of tidal gate	GBK
SD 48	1/25/01	15:20	0"-3"	no	Little sheen	6.5	74	fine to coarse sand with silt, brown - wet trace gravel	Greenfield Creek 100' downstream of ~~to~~ Greenfield Lake dam Same as BK-S1 - Background	GBK
SD 39	1/25/01	15:55	0"-3"	no	Yes tar ~~No~~ like material	6.2	67	silty fine sand, 10% organics, brown-wet	Wetland Reference Area 125' west of Burnett and Myers ~~to~~ North side of Myers	GBK

on sampling tool - not observable in sample

entrance road to UOPAK and NCSPA

Check When Complete:

- _____ Bottles Labeled
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- _____ Samples Shipped For Overnight Delivery
- _____ Confirmed Samples Arrived At Lab
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- _____ Sample Shipper Sealed
- _____ All Sampling Derived Waste Disposed Of Properly

* Did not submit SD-39 sample to lab because observed tar substance at sample location.

Collector's Signature: Gregory B. Kurtz

Date: 1/25/01

PAGE 12 OF 13

SOIL/SEDIMENT SAMPLE COLLECTION FIELD DATA SHEET

PROJECT NAME: SWP-Wilmington

PROJECT NUMBER: 979007.A0-27

WEATHER:

SAMPLING METHOD: Stainless Steel Spoon & Glass Bowl

DECONTAMINATION METHOD: Region IV EPA Method

WASTE DISPOSAL METHOD: Drum & off-site Disposal

SAMPLE ID	DATE	TIME	DEPTH	ODOR	STAIN	FIELD SCREENING pH	FIELD SCREENING ORP	SAMPLE DESCRIPTION	LOCATION/ DESCRIPTION	SAMP. INT.
Did not collect → SS 02 DF	~~1/25/01~~	~~16:30~~	>2' <4'	no	no	–	–	~~fine to coarse sand, trace gravel, brown-dry~~	Background area 400' north of Greenfield Street east of non-treated wood storage area A adjacent to railroad track	~~GBK~~
SS 14 DF	1/25/01	16:45	3'	no	no	–	–	fine to coarse sand, trace gravel, brown-dry	Land farm Area 1 20' west of MW-40	GBK
SS 06 DF	1/25/01	17:05	3'	strong	yes	–	–	fine to medium sand, brown-moist	Production Area 30' North of MW-45 next to Cedar tree	GBK
SS 13 DF	1/25/01	17:30	2'2"	slight	no	–	–	fine to medium sand brown, wet water table at 2'2"	Covered ditch Area 15' west of MW-14	GBK
SS 17 DF	1/25/01	18:10	3'	no	no	–	–	fine to medium sand, brown-dry	Adjacent to Greenfield Creek 75' east of MW-35	GBK

Check When Complete:

- _____ Bottles Labeled
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- _____ Samples Shipped For Overnight Delivery
- _____ Confirmed Samples Arrived At Lab
- _____ Data Recorded With Indelible Pen
- _____ Custody Form Completed
- _____ Sample Shipper Sealed
- _____ All Sampling Derived Waste Disposed Of Properly

Collector's Signature: Gregory B. Kirby

Date: 1/25/01

SOIL/SEDIMENT SAMPLE COLLECTION FIELD DATA SHEET

PROJECT NAME: SWP-Wilmington

PROJECT NUMBER: 979007.A0-27

WEATHER: clear 50°

SAMPLING METHOD: Stainless Steel Spoon & Glass Bowl

DECONTAMINATION METHOD: Region IV EPA Method

WASTE DISPOSAL METHOD: Drum & off-site Disposal

SAMPLE ID	DATE	TIME	DEPTH	ODOR	STAIN	FIELD SCREENING pH	FIELD SCREENING ORP	SAMPLE DESCRIPTION	LOCATION/ DESCRIPTION	SAMP. INT.
SD 39	2/19/01	15:30	0"-3"	—	—	4.0	308	silt, dark brown-moist	Background wetland. Greenfield Park east side wetland area next to boardwalk across from 2111 East Lakeshore.	GBK

Check When Complete:

_____ Bottles Labeled
_____ Samples Iced
_____ Sample Location Staked
_____ Copy Of All Field Notes Sent With Sample To Lab
_____ Lot Numbers Obtained For Samples
_____ Samples Shipped For Overnight Delivery
_____ Confirmed Samples Arrived At Lab
_____ Data Recorded With Indelible Pen
_____ Custody Form Completed
_____ Sample Shipper Sealed
_____ All Sampling Derived Waste Disposed Of Properly

Collector's Signature: _____

Date: _____

PAGE _____ OF _____

STANDARDIZED GROUNDWATER PURGING AND SAMPLING FIELD DATA SHEET

WELL ID	WATER LEVEL DATE TIME	WATER LEVEL DEPTH (TOC)	WELL DEPTH (TOC)	FLOATER THICKNESS (FT)	SINKER THICKNESS (FT)	ODOR*	CALIBRATION pH	CALIBRATION COND	PURGING DATE	PURGING TIME	PURGE METHOD	CALC. PURGE VOL.	VOL. PURGED (GAL)	TEMP (C)	COND (UMHOS)	pH	TURB**	SAMPLING DATE	SAMPLING TIME	SAMP. INT.	DO OR REMARKS
MW-27	2/13 8:40	1.94	7.18			z	4/7	1410	2/13	8:45	Bailer	.85	1.0 1.0 1.0	9.4 10.2 10.2	331 335 334	6.31 6.36 6.37	838 412 412	2/13	8:55	GBK	*Bar oil 2.4 diesel odor in 1. oil water separator
MW-6	2/13 7:02	3.54	22.16						2/13	9:40	Peristaltic	3.03	3.0 3.0 4.0	14 14 14	2400 2390 2460	6.22 6.23 6.31	33 16 9	2/13	10:10	GBK	10' away 1.59 -003 1.64 -018 1.51 -023
MW-7	2/13 6:57	5.01	22.15						2/13	10:30	Peri	2.79	3.0 2.0	14 13.5	658 624	5.80 5.93	143 60	2/13	10:45	GBK	1.83 044 2.29 028 Dry 5gallon
MW-5	2/13 6:51	5.20	21.81						2/13	11:00	Peri	2.71	3.0 2.0	14 14.5	385 405	5.59 5.73	111 149	2/13	11:30	GBK	2.11 074 2.08 056 Dry 5gallon
MW-8A	2/13 6:53	4.41	32.63						2/13	11:05	Sub	4.60	5 5 7	16 16 16	274 269 267	6.11 6.14 6.14	10.69 7 6.2	2/13	11:25	GBK	1.74 043 1.35 037 1.20 032
MW-9	2/13 6:47	5.07	21.99						2/13	11:50	Peri	2.76	3 2	13 14	325 326	5.63 5.65	19.9 15.1	2/13	12:10	GBK	1.81 063 1.92 054 Dry 5gallons
MW 21	2/13 7:15	2.78	9.81						2/13	13:05	Peri	1.15	1.25 1.25 2.5	12 12 12	389 396 398	6.19 6.25 6.23	19.4 12.3 10.0	2/13	13:25	GBK	1.97 002 2.06 013 1.98 -025
MW 19	2/13 7:11	4.10	14.14						2/13	12:25	Peri	1.64	2 2 2	10 10 10	222 235 244	6.49 6.43 6.51	11 9 7	2/13	12:55	GBK	3.61 062 3.56 024 3.39 007
MW 20	2/13 7:18	2.69	14.49	very little sheen		no			2/13	13:45	Peri	1.92	2 2 2	13 13 13	625 612 586	6.19 6.19 6.15	14.4 13.0 12.6	2/13	14:05	GBK	1.68 002 1.47 005 1.05 007

Note descrepancies from below comments in the remarks section for each well:
- Well Locked
- Bailer Present
- Bottles Labeled
- Samples Iced
- Reference Point Inspected
- Well Casing Inspected
- Well Pad Inspected

Check When Complete:
- ____ Copy of All Notes Sent with Samples To Lab
- ____ Log Numbers Obtained For Samples
- ____ Samples Shipped FedEx Priority Overnight Daily
- ____ Confirmed Samples Arrived At Lab
- ____ All Data Recorded With An Indelible Waterproof Pen
- ____ Custody Form Completed
- ____ Cooler Sealed
- ____ All Purge Water Disposed Of At Designated Location
- ____ All Sampling Derived Waste Disposed as Potentially Hazardous Waste (i.e. gloves, plastic, twine, etc..)

SITE: SWP-Wilmington
WEATHER: Cloudy 40°
COLLECTOR'S SIGN.: Gregory B. Smith
DATE/TIME: 2/13/01 15:00 2001

*Very slight (VS), Slight (S), Moderate (M), Strong (ST), Very Strong (VST)
**Clear (C), Slight Turbid (ST), Turbid (T), Very Turbid (VT)

STANDARDIZED GROUNDWATER PURGING AND SAMPLING FIELD DATA SHEET

WELL ID	WATER LEVEL DATE TIME	WATER LEVEL DEPTH (TOC)	WELL DEPTH (TOC)	FLOATER THICKNESS (FT)	SINKER THICKNESS (FT)	ODOR*	CALIBRATION pH	CALIBRATION COND	PURGING DATE	PURGING TIME	PURGE METHOD	CALC. PURGE VOL.	VOL. PURGED (GAL)	TEMP (C)	COND (UMHOS)	pH	TURB**	SAMPLING DATE	SAMPLING TIME	SAMP. INT.	DO	REMARKS	ORP
MW 20A	2/13 7:19	2.98	32.97				4/7	1410	2/13	13:42	Sub	4.89	10	17	232	6.70	7.0	2/13	14:15	GBK	1.87		-023
													5	17	231	6.80	5.98				1.45		-017
													10	17	235	6.70	6.01				1.23		-024
MW 23	2/13 7:25	2.69	11.64						2/13	14:30	Bailer	1.46	1.5	13	710	6.98	591	2/13	14:55	GBK	2.21		-041
													1.5	13	724	6.52	141				1.57		-036
													1.5	13	730	6.57	159				2.01		-058
MW 31	2/13 7:40	4.77	16.09						2/13	15:15	Peri	1.85	2	15	265	6.70	40.7	2/13	15:50	GBK	1.25		-024
													4	15	278	6.78	12.1				1.33		-052
													3	15	293	6.75	9.44				1.31		-046
MW 32	2/13 7:42	4.73	46.71			slight			2/13	15:15	Peri	6.84	7	16.5	334	7.08	6.44	2/13	16:20	GBK	2.06		-093
													7	16.5	319	7.05	6.82				2.24		-071
													7	16.5	302	7.00	6.09				1.47		017
MW 33	2/13 7:44	4.63	55.88						2/13	15:15	Sub	8.35 Sh	18	17	346	6.72	10.8	2/13	15:40	GBK	1.78		-021
													9	17	349	7.73	6.35				1.97		-086
													18	17	349	7.80	6.01				1.35		-094
MW 30	2/13 7:48	4.15	11.0						2/13	16:40	Bail	1.12	130	13	358	6.17	105.6	2/13	16:55	GBK	1.25		057
													2.5	12	369	6.21	95.9				1.76		034
													1.25	12	374	6.22	97.2				1.81		033
MW 25	2/14 10:40	2.22	15.05				4/7	1410	2/14	10:50	Bail	2.09	2.25	15	522	5.82	99.3	2/14	16:30	GBK	2.73		096
																					Dry 2.25 gallons		
MW 28	2/14 8:14	2.82	15:06						2/14	8:15	Bailer	2.0	2.0	12	743	6.57	310	2/14	8:30	GBK	3.31		071
													4.0	12.5	735	6.56	93.1				1.35		-022
													2.0	12.5	733	6.59	80.0				1.44		-031
MW 28A	2/14 8:16	4.09	27.45						2/14	8:40	Bailer	3.80	4.0	16	186	6.74	45.5	2/14	8:55	GBK	3.40		-028
													4.0	16	176	6.66	20.6				1.96		009
													4.0	16	164	6.61	10.0				1.55		026

Note descrepencies from below comments in the remarks section for each well:

- Well Locked
- Bailer Present
- Bottles Labeled
- Samples Iced
- Reference Point Inspected
- Well Casing Inspected
- Well Pad Inspected

Check When Complete:

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- ____ Cooler Sealed
- ____ All Purge Water Disposed Of At Designated Location
- ____ All Sampling Derived Waste Disposed as Potentially Hazardous Waste (i.e. gloves, plastic, twine, etc..)

SITE: SWP-Wilmington

WEATHER: cloudy 60°

COLLECTOR'S SIGN.: Gregory Bikundy

DATE/TIME: 2/14/01 16:30 2001

PAGE 2 + 7 OF 2

*Very slight (VS), Slight (S), Moderate (M), Strong (ST), Very Strong (VST)

**Clear (C), Slight Turbid (ST), Turbid (T), Very Turbid (VT)

STANDARDIZED GROUNDWATER PURGING AND SAMPLING FIELD DATA SHEET

WELL ID	WATER LEVEL DATE TIME	WATER LEVEL DEPTH (TOC)	WELL DEPTH (TOC)	FLOATER THICKNESS (FT)	SINKER THICKNESS (FT)	ODOR*	CALIBRATION pH	CALIBRATION COND	PURGING DATE	PURGING TIME	PURGE METHOD	CALC. PURGE VOL.	VOL. PURGED (GAL)	TEMP (C)	COND (UMHOS)	pH	TURB**	SAMPLING DATE	SAMPLING TIME	SAMP. INT.	DO	ORP REMARKS
MW 37	2/14 9:05	4.42	17.10				4/7	1410	2/14	9:10	Peri	2.06	2.25	16.5	532	6.37	11.1	2/14	9:45	GBK	1.54	035
													2.25	16.5	566	6.41	8.74				1.53	019
													2.25	16.5	586	6.51	7.59				1.47	007
MW 38	2/14 9:03	4.47	27.00						2/14	9:10	Peri	3.67	4.0	18	185	5.89	16.6	2/14	10:00	GBK	1.16	050
													4.0	18	205	5.93	13.2				1.09	037
													4.0	18	196	5.95	9.23				0.96	058
MW 39	2/14 9:01	1.43	52.45						2/14	9:10	Sub	8.32	9.0	18	210	7.12	126	2/14	10:15	GBK	1.82	001
													9.0	18	218	7.24	24.4				1.39	-026
													9.0	18	211	7.17	22.2				0.94	038
MW 40	2/14 7:40	6.25	16.60			slight yellow color			2/14	11:20	Low Flow Peri	1.69	2.0	14.6	340	6.6	21.3	2/14	11:55	GBK	2.58	026
													2.0	14.6	350	6.5	8.56				2.10	-014
													2.0	14.6	350	6.5	7.31				1.97	-005
MW 41	2/14 7:38	5.37	40.28						2/14	11:45	Sub	5.70	6.0	18	198	6.22	9.38	2/14	12:20	GBK	1.01	-008
													6.0	18	197	6.21	6.89				1.07	-006
													12.0	18	197	6.31	6.50				1.02	-003
MW 42	2/14 7:36	5.29	67.13						2/14	11:25	Sub	10.08	11	17	292	6.87	6.15	2/14	12:10	GBK	1.89	-028
													11	17	292	7.07	4.20				.77	-023
													11	17	296	7.04	6.06				1.08	-042
MW 18	2/14 7:07	4.58	13.43						2/14	13:10	Bail	1.44	2.0	13	1859	6.13	52.2	2/14	13:25	GBK	1.76	076
													2.0	13	1929	6.19	48.9				1.59	054
													2.0	13	1930	6.26	60.6				1.88	035
MW 22A	2/14 13:45	3.28	33.70						2/14	14:00	Sub	4.96	5	19	194	5.48	7.88	2/14	14:25	GBK	1.93	078
													10	19	196	5.45	7.55				1.74	078
													10	19	200	5.51	6.59				1.58	059
MW 16	2/14 14:51	5.35	14.10						2/14	14:57	Peri	1.42	2.0	15	1472	5.99	18.1	2/14	15:20	GBK	1.98	083
													4.0	15	1440	6.05	9.13				1.65	038
													2.0	15	1447	6.09	8.36				1.17	032

Note descrepencies from below comments in the remarks section for each well:

- Well Locked
- Baller Present
- Bottles Labeled
- Samples Iced
- Reference Point Inspected
- Well Casing Inspected
- Well Pad Inspected

Check When Complete:

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- ____ All Sampling Derived Waste Disposed as Potentially Hazardous Waste (i.e. gloves, plastic, twine, etc..)

SITE: SWP-W. Livingston

WEATHER: cloudy 60°

COLLECTOR'S SIGN.: Gregory B. Kurtz

DATE/TIME: 2/14/01 16:30 2021

*Very slight (VS), Slight (S), Moderate (M), Strong (ST), Very Strong (VST)

**Clear (C), Slight Turbid (ST), Turbid (T), Very Turbid (VT)

STANDARDIZED GROUNDWATER PURGING AND SAMPLING FIELD DATA SHEET

WELL ID	WATER LEVEL DATE TIME	WATER LEVEL DEPTH (TOC)	WELL DEPTH (TOC)	FLOATER THICKNESS (FT)	SINKER THICKNESS (FT)	ODOR*	CALIBRATION pH	CALIBRATION COND	PURGING DATE	PURGING TIME	PURGE METHOD	CALC. PURGE VOL.	VOL. PURGED (GAL)	TEMP (C)	COND (UMHOS)	pH	TURB**	SAMPLING DATE	SAMPLING TIME	SAMP. INT.	DO	ORP	REMARKS
MW-13	2/14 13:47	4.55	13.94			slight	4/7	14/10	2/14	14:00	Peri	1.53	2.0	14	1036	6.22	53.9	2/14	14:40	GBK	1.87	059	
													4.0	14	1090	6.27	45.5				1.36	019	
													6.0	14	1114	6.34	37.5				1.31	000	
MW 17	2/14 14:48	5.23	14.50			slight Diesel	↓	↓	2/14	14:50	Low Flow Peri	1.51	2.0	12.8	1030	6.5	22	2/14	15:40	GBK	2.05	063	
													2.0	12.8	1010	6.3	9.55				1.75	024	
													2.0	12.8	1020	6.3	8.98				1.30	019	
MW 29	2/14 7:19	3.64	9.18				4/7	14/10	2/15	7:45	Peri	0.98	1.0	13	1815	5.48	65.1	2/15	8:10	GBK	1.98	124	
													1.0	13	1792	5.55	16.9				1.60	088	
													1.0	13	1797	5.54	24.1				1.26	086	
MW 29A	2/14 7:21	3.57	40.35			slight			2/15	7:45	Sub	6.00	6.0	18	288	6.64	10.11	2/15	8:25	GBK	1.30	065	
													6.0	18	272	6.65	7.11				1.01	039	
													12.0	18	276	6.62	6.77				1.04	037	
MW 34	2/14 7:25	7.45	16.59						2/15	8:40	Low Flow Peri	1.49	1.5	16.8	360	5.8	20.6	2/15	9:30	GBK	1.70	060	
													1.5	16.8	370	5.9	13.3				1.20	028	
													1.5	16.8	370	5.8	10.9				1.09	048	
MW 35	2/14 7:27	5.87	38.03						2/15	9:05	Sub	5.24	5.5	19	233	6.75	8.6	2/15	9:50	GBK	1.68	012	
													5.5	19	230	6.70	5.6				.98	000	
													11.0	19	229	6.68	5.55				.91	004	
MW 36	2/14 7:29	6.12	59.21						2/15	8:40	Sub	8.65	8.75	19	234	7.52	7.71	2/15	9:40	GBK	2.0	073	
													9	19	234	7.57	6.63				0.80	049	
													18	19	235	7.59	6.36				0.81	026	
MW 24R	2/13 7:35	3.74	18.32			slight			2/15	10:10	Peri	1.89	[illegible]	14.7	966	5.95	18.7	2/15	10:35	GBK	1.68	133	
													[illegible]	14.6	905	5.97	9.8				0.98	067	
													[illegible]	14.7	898	5.97	8.9				0.76	048	
MW 24A	2/13 7:35	3.93	35.92						2/15	10:15	Sub	5.21	6.0	18.6	266	5.74	11.1	2/15	10:45	GBK	1.09	097	
													6.0	18.6	286	5.80	7.5				0.88	057	
													12.0	18.6	280	5.75	6.75				0.78	052	

Note descrepencies from below comments in the remarks section for each well:
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- Bailer Present
- Bottles Labeled
- Samples Iced
- Reference Point Inspected
- Well Casing Inspected
- Well Pad Inspected

Check When Complete:
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SITE: SWP-Wilmington
WEATHER: Sunny - 65°
COLLECTOR'S SIGN.: Gregory B. Kurtz
DATE/TIME: 2/15/01 12:00

*Very slight (VS), Slight (S), Moderate (M), Strong (ST), Very Strong (VST)
**Clear (C), Slight Turbid (ST), Turbid (T), Very Turbid (VT)

STANDARDIZED GROUNDWATER PURGING AND SAMPLING FIELD DATA SHEET

WELL ID	WATER LEVEL DATE TIME	WATER LEVEL DEPTH (TOC)	WELL DEPTH (TOC)	FLOATER THICKNESS (FT)	SINKER THICKNESS (FT)	ODOR*	CALIBRATION pH	CALIBRATION COND	PURGING DATE	PURGING TIME	PURGE METHOD	CALC. PURGE VOL.	VOL. PURGED (GAL)	TEMP (C)	COND (UMHOS)	pH	TURB**	SAMPLING DATE	SAMPLING TIME	SAMP. INT.	DO / ORP REMARKS
MW 19	2/15 7:28	2.93	15.06			slight	4/7	1410	2/15	11:00	Peri	1.98	2.0 2.0 2.0	15.4 15.4 15.5	671 684 678	6.01 6.00 6.00	12.6 13.9 6.99	2/15	11:20	GBK	1.15 075 0.77 056 1.17 045
MW 19A	2/15 7:30	3.31	32.26						2/15	11:00	Sub	4.72	5.0 5.0 5.0	20 20 20	237 242 240	5.78 5.68 5.65	13.3 7.14 6.82	2/15	11:30	GBK	1.14 052 0.59 063 0.96 053
MW 15	2/15 6:51	4.35	13.80			slight			2/15	11:50	Peri	1.54	2.0 2.0 4.0	16 16 16	257 296 318	6.08 6.05 6.08	17.5 9.62 7.74	2/15	12:25	GBK	1.71 112 1.71 084 1.22 063
MW 12	2/15 6:56	5.41	13.85			moderate			2/15	12:05	Low Flow Peri	1.38	2.0 2.0 2.0	13.9 14.0 14.0	130 130 140	5.7 5.8 5.7	19.6 13.2 11.5	2/15	12:45	GBK	2.40 054 0.98 019 0.82 057
MW 11A	2/15 6:59	4.12	36.02			slight			2/15	12:35	Sub	5.20	6.0 6.0 6.0	20 20 20	268 277 279	6.17 6.16 6.13	8.1 6.79 6.99	2/15	12:55	GBK	0.95 030 1.30 020 1.36 018
MW 14A	2/15 7:04	3.10	33.05			slight			2/15	13:25	Sub	4.88	5.0 5.0 5.0	20 20 20	217 208 208	6.06 5.96 5.93	14.7 7.41 7.02	2/15	14:00	GBK	1.44 008 1.09 004 1.03 002
MW 14	2/15 13:35	4.22	19.50			strong	↓	↓	2/15	13:45	Low Flow Peri	2.49	2.5 2.5 2.5	15.6 15.5 15.5	1050 1040 1030	6.1 6.1 6.1	8.01 10.78 12.2	2/15	14:30	GBK	0.72 055 0.46 017 0.65 011

Note descrepencies from below comments in the remarks section for each well:
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SITE: SWP-Wilmington
WEATHER: Sunny - 60°s
COLLECTOR'S SIGN.: Gregory B. Tsuda
DATE/TIME: 2/15/01 15:00

*Very slight (VS), Slight (S), Moderate (M), Strong (ST), Very Strong (VST)
**Clear (C), Slight Turbid (ST), Turbid (T), Very Turbid (VT)

STANDARDIZED GROUNDWATER PURGING AND SAMPLING FIELD DATA SHEET

WELL ID	WATER LEVEL DATE TIME	WATER LEVEL DEPTH (TOC)	WELL DEPTH (TOC)	FLOATER THICKNESS (FT)	SINKER THICKNESS (FT)	ODOR*	CALIBRATION pH	CALIBRATION COND	PURGING DATE	PURGING TIME	PURGE METHOD	CALC. PURGE VOL.	VOL. PURGED (GAL)	TEMP (C)	COND (UMHOS)	pH	TURB**	SAMPLING DATE	SAMPLING TIME	SAMP. INT.	REMARKS
MW 22	2/14 13:50				0.2'																
MW 43	2/14 13:55				4.88'																
MW 14	2/15 14:08				1.05'																
MW 11	2/15 14:10				0.01'																
MW 11B	2/15 14:12				0.59'																
MW 26	2/15 14:20				3.85'																
MW 26A	2/15 14:23				3.67'																
MW 44	2/15 14:30				6.92'																
MW 44A	2/15 14:35				2.96'																

Note descrepencies from below comments in the remarks section for each well:
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- Baller Present
- Bottles Labeled
- Samples Iced
- Reference Point Inspected
- Well Casing Inspected
- Well Pad Inspected

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- ____ Samples Shipped FedEx Priority Overnight Daily
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- ____ Custody Form Completed
- ____ Cooler Sealed
- ____ All Purge Water Disposed Of At Designated Location
- ____ All Sampling Derived Waste Disposed as Potentialy Hazardous Waste (i.e. gloves, plastic, twine, etc..)

SITE: SWP-Wilmington
WEATHER: Sunny - 65°
COLLECTOR'S SIGN.: Gregory B. Rusty
DATE/TIME: 2/15/01 17:00

*Very slight (VS), Slight (S), Moderate (M), Strong (ST), Very Strong (VST)
**Clear (C), Slight Turbid (ST), Turbid (T), Very Turbid (VT)

MW-45 3.66'
OPW-1 5.48'

STANDARDIZED GROUNDWATER PURGING AND SAMPLING FIELD DATA SHEET

WELL ID	WATER LEVEL DATE TIME	WATER LEVEL DEPTH (TOC)	WELL DEPTH (TOC)	FLOATER THICKNESS (FT)	SINKER THICKNESS (FT)	ODOR*	CALIBRATION pH	CALIBRATION COND	PURGING DATE	PURGING TIME	PURGE METHOD	CALC. PURGE VOL.	VOL. PURGED (GAL)	TEMP (C)	COND (UMHOS)	pH	TURB**	SAMPLING DATE	SAMPLING TIME	SAMP. INT.	REMARKS
MW 45	2/15 14:45				3.66'																
OPW 1	2/15 14:48				5.48'																

Note descrepencies from below comments in the remarks section for each well:
- Well Locked
- Baller Present
- Bottles Labeled
- Samples Iced
- Reference Point Inspected
- Well Casing Inspected
- Well Pad Inspected

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- ____ Copy of All Notes Sent with Samples To Lab
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- ____ Cooler Sealed
- ____ All Purge Water Disposed Of At Designated Location
- ____ All Sampling Derived Waste Disposed as Potentially Hazardous Waste (i.e. gloves, plastic, twine, etc..)

SITE: SWP-Wilmington
WEATHER: Sunny - 65°
COLLECTOR'S SIGN.: [illegible]
DATE/TIME: 2/15/01 17:00

*Very slight (VS), Slight (S), Moderate (M), Strong (ST), Very Strong (VST)
**Clear (C), Slight Turbid (ST), Turbid (T), Very Turbid (VT)

Greenfield Lake
Page 1 of 2

Sample Time 2538 sec
504 Volts DC
Pulsing 60 secs
Pulse width 4.5 ms
Amps 7

FISH TISSUE SAMPLE DATA LOG
SOUTHERN WOOD PIEDMONT COMPANY AND NORTH CAROLINA STATE PORTS AUTHORITY
WILMINGTON, NEW HANOVER COUNTY, SOUTH CAROLINA

FISH TISSUE SAMPLE	DATE SAMPLE COLLECTED	TIME SAMPLE COLLECTED	SAMPLE COLLECTION METHOD	FISH SPECIES	FISH WEIGHT	FISH LENGTH	FISH LESIONS OR ABNORMALITIES	COMPOSITE OR SINGLE FISH	LOCATION AND REMARKS
Bio-10A	4/23/01	14:00	Electro Fish Boat	Warmouth	74 g	157 mm	none	single	Savannah Labs } did no analy
				"	60 g	144 mm	"	"	Paradigm S
Bio-10B				Redear	28 g	117 mm	"	C	Paradigm
				"	22 g	107 mm	"	"	
				Bluegill	32 g	120 mm	"	"	
				"	32 g	122 mm	"	"	Savannah Labs
				Redear	22 g	108 mm	"	"	
				"	28 g	117 mm	"	"	
				"	8 g	85 mm	"	"	

Notes:
The fish tissue sample is to be rinsed with surface water from collection point.
The recommended weight per sample is 100 grams of filet.
The fish tissue sample is to be wrapped in aluminum foil and placed in waterproof freezer bag.
Sample to be placed immediately on ice and shipped priority overnight daily to laboratory.
Complete chain-of-custody.

Sampler: Greg Kuntz
Signature: Greg B. Kuntz
Date: 4/23/01

pH = 6.9
Temp = 23.9° C
ORP = 123

DO = 6.76 mg/L
Salinity = 0.1 ppt
Conductivity = 210 umhos

Greenfield Lake
Page 2 of 2

FISH TISSUE SAMPLE DATA LOG
SOUTHERN WOOD PIEDMONT COMPANY AND NORTH CAROLINA STATE PORTS AUTHORITY
WILMINGTON, NEW HANOVER COUNTY, SOUTH CAROLINA

FISH TISSUE SAMPLE	DATE SAMPLE COLLECTED	TIME SAMPLE COLLECTED	SAMPLE COLLECTION METHOD	FISH SPECIES	FISH WEIGHT	FISH LENGTH	FISH LESIONS OR ABNORMALITIES	COMPOSITE OR SINGLE FISH	LOCATION AND REMARKS
Bio-10C	4/23/01	14:00	Electrofish Boat	Lake chub Suckers	88 g	186 mm	none	C	Paradigm
				"	138 g	214 mm	"	"	
				"	~~157~~ 52 g	157 mm	"	"	
				"	48 g	150 mm	"	"	Savannah Labs
				"	76 g	177 mm	"	"	
				"	54 g	159 mm	"	"	
				"	26 g	204 mm	"	"	
Bio-10D				Largemouth	940 g	1.48 ft	"	"	Paradigm
				"	1486 g	1.60 ft	"	"	Savannah Labs
Bio-10E				Bowfin	224 g	fillet	"	Single	filet - Paradigm
				"	192 g	fillet	"	Single	filet Paradigm
				Total Fish	2556 g	2.28 ft	single fish filleted for samples		

Did not analyze

Notes:
The fish tissue sample is to be rinsed with surface water from collection point.
The recommended weight per sample is 100 grams of filet.
The fish tissue sample is to be wrapped in aluminum foil and placed in waterproof freezer bag.
Sample to be placed immediately on ice and shipped priority overnight daily to laboratory.
Complete chain-of-custody.

Sampler: Greg Kuntz
Signature: Gregory B. Kuntz
Date: 4/23/01

Burnt Mill Creek 500 feet south of Market Street to Metts Dr.

FISH TISSUE SAMPLE DATA LOG
SOUTHERN WOOD PIEDMONT COMPANY AND NORTH CAROLINA STATE PORTS AUTHORITY
WILMINGTON, NEW HANOVER COUNTY, SOUTH CAROLINA

FISH TISSUE SAMPLE	DATE SAMPLE COLLECTED	TIME SAMPLE COLLECTED	SAMPLE COLLECTION METHOD	FISH SPECIES	FISH WEIGHT	FISH LENGTH	FISH LESIONS OR ABNORMALITIES	COMPOSITE OR SINGLE FISH	LOCATION AND REMARKS
Bio-11A	4/25/01	11:00	Electroshock Boat	Largemouth	234g	270mm	none	S	Savannah Labs
				"	72g	177mm	"	"	Paradigm
Bio-11B				Stripped Mullet	372g	344mm	"	"	Savannah Labs
				"	176g	285mm	"	"	Paradigm
Bio-11C-Dup				Redear	22g	108mm	"	C	
				"	12g	88mm	"	C	
				"	8g	80mm	"	"	
				"	4g	68mm	"	"	
				"	4g	68mm	"	"	Savannah Labs
				"	4g	68mm	"	"	
				"	6g	65mm	"	"	
				"	4g	65mm	"	"	
				"	4g	65mm	"	"	
				Bluegill	5g	65mm			

Notes:
The fish tissue sample is to be rinsed with surface water from collection point.
The recommended weight per sample is 100 grams of filet.
The fish tissue sample is to be wrapped in aluminum foil and placed in waterproof freezer bag.
Sample to be placed immediately on ice and shipped priority overnight daily to laboratory.
Complete chain-of-custody.

Sampler: Greg Kuntz
Signature: Gregory B. Kuntz
Date: 4/25/01

Also saw large carp 2-3' 15-25 pounds

Salinity = 0.1 ppt
pH = 7.2
ORP = 121

Temp = 18.9° C
Conductivity = 220 umhos
D.O. = 7.80 mg/L

Sample Time: 1749 sec
504 volts DC
60 Pulses per second
4.5 milliseconds
7 amps

Burnt Mill Creek

FISH TISSUE SAMPLE DATA LOG
SOUTHERN WOOD PIEDMONT COMPANY AND NORTH CAROLINA STATE PORTS AUTHORITY
WILMINGTON, NEW HANOVER COUNTY, SOUTH CAROLINA

FISH TISSUE SAMPLE	DATE SAMPLE COLLECTED	TIME SAMPLE COLLECTED	SAMPLE COLLECTION METHOD	FISH SPECIES	FISH WEIGHT	FISH LENGTH	FISH LESIONS OR ABNORMALITIES	COMPOSITE OR SINGLE FISH	LOCATION AND REMARKS
Bio-11C-Dup	4/25/01	11:00	Electrofish Boat	Bluegill	30g	120mm	none	C	
				Redear	20g	110mm	"	"	
				"	12g	92mm	"	"	
				"	10g	85mm	"	"	Paradigm
				"	2g	58mm	"	"	
				"	2g	58mm	"	"	
Bio-11C				Redear	14g	94mm	"	"	
				"	24g	110mm	"	"	
				"	6g	77mm	"	"	
				"	8g	87mm	"	"	Savannah Labs
				"	10g	86mm	"	"	
				Bluegill	4g	67mm	"	"	
				"	2g	61mm	"	"	
				"	26g	118mm			

Notes:
The fish tissue sample is to be rinsed with surface water from collection point.
The recommended weight per sample is 100 grams of filet.
The fish tissue sample is to be wrapped in aluminum foil and placed in waterproof freezer bag.
Sample to be placed immediately on ice and shipped priority overnight daily to laboratory.
Complete chain-of-custody.

Sampler: Greg Kuntz
Signature: Gregory B. Kuntz
Date: 4/25/01

Burnt Mill Creek

FISH TISSUE SAMPLE DATA LOG
SOUTHERN WOOD PIEDMONT COMPANY AND NORTH CAROLINA STATE PORTS AUTHORITY
WILMINGTON, NEW HANOVER COUNTY, SOUTH CAROLINA

FISH TISSUE SAMPLE	DATE SAMPLE COLLECTED	TIME SAMPLE COLLECTED	SAMPLE COLLECTION METHOD	FISH SPECIES	FISH WEIGHT	FISH LENGTH	FISH LESIONS OR ABNORMALITIES	COMPOSITE OR SINGLE FISH	LOCATION AND REMARKS
Bio-11C	4/25/01	11:00	Electrofish Boat	Redear	28 g	124 mm	none	C	
				Bluegill	6 g	74 mm	"	"	
				Redear	14 g	94 mm	"	"	
				Bluegill	8 g	77 mm	"	"	
				Redear	6 g	72 mm	"	"	Paradigm
				"	6 g	80 mm	"	"	
				"	4 g	69 mm	"	"	
				"	4 g	69 mm	"	"	
				"	8 g	77 mm	"	"	
small fish avian receptor ← Bio-15-Comp		Gambusia, silverside			52 g		"	C	Savannah Labs
			Fluttefish Backpack		54 g		"	C	Paradigm
Bio-15-Comp-Dup		"	"		62 g		"	C	Savannah Labs
					64 g		"	C	Paradigm

Notes:
The fish tissue sample is to be rinsed with surface water from collection point.
The recommended weight per sample is 100 grams of filet.
The fish tissue sample is to be wrapped in aluminum foil and placed in waterproof freezer bag.
Sample to be placed immediately on ice and shipped priority overnight daily to laboratory.
Complete chain-of-custody.

Sampler: Greg Kuntz
Signature: Greg B. Kuntz
Date: 4/25/01

Greenfield Creek Between Front Street and 250 feet west toward Cape Fear River.

FISH TISSUE SAMPLE DATA LOG
SOUTHERN WOOD PIEDMONT COMPANY AND NORTH CAROLINA STATE PORTS AUTHORITY
WILMINGTON, NEW HANOVER COUNTY, SOUTH CAROLINA

FISH TISSUE SAMPLE	DATE SAMPLE COLLECTED	TIME SAMPLE COLLECTED	SAMPLE COLLECTION METHOD	FISH SPECIES	FISH WEIGHT	FISH LENGTH	FISH LESIONS OR ABNORMALITIES	COMPOSITE OR SINGLE FISH	LOCATION AND REMARKS
B10-12A	4/23/01	11:30	Electrofish Backpack	Redear	22g	106mm	none	C	Paradigm
				"	70g	160mm	"	"	
				"	28g	116mm	"	"	Savannah Labs
				"	2g	58 mm	"	"	
				"	8g	72mm	"	"	
				Bluegill	2g	60mm	"	"	
				Redear	2g	62mm	"	"	
				bluegill	2g	45mm	"	"	
				"	1g	48mm	"	"	
				Blue Spotted	2g	58mm	"	"	
B10-12B				Striped Mullet	370g	322mm	"	Single	Paradigm
B10-16-Comp	GBK 4/27/01			"	608g	400mm	"	Single	Savannah Labs
small fish Avian Receptor ← ~~B10-15~~-Comp		Gambusia, shad, inland silver side			56g		"	C	Paradigm
					48g		"	"	Savannah Labs

Notes:
The fish tissue sample is to be rinsed with surface water from collection point.
The recommended weight per sample is 100 grams of filet.
The fish tissue sample is to be wrapped in aluminum foil and placed in waterproof freezer bag.
Sample to be placed immediately on ice and shipped priority overnight daily to laboratory.
Complete chain-of-custody.

Sampler: Greg Kuntz
Signature: Greg B. Kuntz
Date: 4/23/01 fin GBK

pH = 6.0
Conductivity = 211 uhmos
Temp = 23° C

ORP = 106
DO = 6.6 mg/L
Salinity = 0.1 ppt

* Saw a bowfish and 2 Largemouth bass. Could not catch.

Greenfield Creek from railroad west to tidal gate.
Drainage Ditch- No fish located.

FISH TISSUE SAMPLE DATA LOG
SOUTHERN WOOD PIEDMONT COMPANY AND NORTH CAROLINA STATE PORTS AUTHORITY
WILMINGTON, NEW HANOVER COUNTY, SOUTH CAROLINA

FISH TISSUE SAMPLE	DATE SAMPLE COLLECTED	TIME SAMPLE COLLECTED	SAMPLE COLLECTION METHOD	FISH SPECIES	FISH WEIGHT	FISH LENGTH	FISH LESIONS OR ABNORMALITIES	COMPOSITE OR SINGLE FISH	LOCATION AND REMARKS
B10-13A	4/24/01	10:30	Electrofish Boat	Bowfin	1398 g	1.80 ft	none	S	Paradigm
	"	"	"	"	1532 g	1.86 ft	"	"	Savannah Labs
B10-13B				Gizzard Shad	606 g	380 mm	"	"	Paradigm
				"	480 g	370 mm	"	"	Savannah Labs
B10-13B-Dup				"	668 g	385 mm	-Total Fish	filleted	for samples
				"	120 g	fillet	"	"	Paradigm
				"	134 g	fillet	"	"	Savannah Labs
B10-13C				Largemouth	370 g	292 mm	-Total Fish	filleted	for samples
				"	74 g	fillet	"	"	Paradigm
				"	62 g	fillet	"	"	Savannah Labs

Notes:
The fish tissue sample is to be rinsed with surface water from collection point.
The recommended weight per sample is 100 grams of filet.
The fish tissue sample is to be wrapped in aluminum foil and placed in waterproof freezer bag.
Sample to be placed immediately on ice and shipped priority overnight daily to laboratory.
Complete chain-of-custody.

Sampler: Greg Kuntz
Signature: Gregory B. Kuntz
Date: 4/24/01

pH = 6.8
Temp = 20.7°C
ORP = 108

DO = 4.32 mg/L
Salinity = 0.1 ppt
Conductivity = 283 umhos

1892 sec
168 volts DC
60 ~~cycles~~ pulses per cycle
2.5 millisec pulsewidth
7 amps

Greenfield Creek and
Drainage Ditch

FISH TISSUE SAMPLE DATA LOG
SOUTHERN WOOD PIEDMONT COMPANY AND NORTH CAROLINA STATE PORTS AUTHORITY
WILMINGTON, NEW HANOVER COUNTY, SOUTH CAROLINA

FISH TISSUE SAMPLE	DATE SAMPLE COLLECTED	TIME SAMPLE COLLECTED	SAMPLE COLLECTION METHOD	FISH SPECIES	FISH WEIGHT	FISH LENGTH	FISH LESIONS OR ABNORMALITIES	COMPOSITE OR SINGLE FISH	LOCATION AND REMARKS
Bio-13D	4/24/01	10:30	Electrofish Boat	Pumpkinseed	30g	114mm	none	C	
				Blue Spotted	6g	60mm	eroded tail	C	
				"	2g	50mm	none	"	
				"	2g	50 mm	"	"	Paradigm only.
				"	1g	43mm	"	"	Not enough sample
				"	2g	52mm	"	"	to go to Savannah Labs
				"	2g	52mm	"	"	
Bio-13E				Stripped Mullet	394g	340mm	"	S	Paradigm
				"	412g	338mm	"	S	Savannah Labs
Bio-13E-Dup				"	340g	332mm	"	S	Paradigm
				"	526g	385mm	"	S	Savannah Labs
Bio-14-Comp		Gambusia, shad	Backpack	silver side; Darter		56g	"	C	Paradigm
			"	"		52g	"	C	Savannah Labs

small fish
avian
receptor

Notes:
The fish tissue sample is to be rinsed with surface water from collection point.
The recommended weight per sample is 100 grams of filet.
The fish tissue sample is to be wrapped in aluminum foil and placed in waterproof freezer bag.
Sample to be placed immediately on ice and shipped priority overnight daily to laboratory.
Complete chain-of-custody.

Sampler: Greg Kuntz
Signature: Gregory B. Kuntz
Date: 4/24/01

-also saw 1 carp 2' 12 pounds
1 gar 3' 4 pounds

ATTACHMENT D

FedEx USA Airbill FedEx Tracking Number 824136805100

1 From *Please print and press hard.*

Date 10/25/00 Sender's FedEx Account Number 2181-1829-1

Sender's Name Gregory B. Kurtz Phone (803) 796-6240

Company SCHNABEL ENGINEERING ASSOC

Address 104 CORPORATE BLVD STE 420 Dept./Floor/Suite/Room

City WEST COLUMBIA State SC ZIP 29169

2 Your Internal Billing Reference
First 24 characters will appear on invoice.

3 To

Recipient's Name Gloria Fulwood Phone (912) 354-7858

Company Savannah Lab

Address 5102 LaRoche Ave
To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

S Dept./Floor/Suite/Room

City Savannah State GA ZIP 31404

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Visit our Web site at www.fedex.com

By using this Airbill you agree to the service conditions on the back of this Airbill and in our current Service Guide, including terms that limit our liability.

0156288956

Form Ctl. No. 0215 **Sender's Copy**

4a Express Package Service — *Packages up to 150 lbs.* Delivery commitment may be later in some areas.

- [X] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

* FedEx Envelope/Letter Rate not available. Minimum charge: One-pound rate

4b Express Freight Service — *Packages over 150 lbs.* Delivery commitment may be later in some areas.

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation: _____

5 Packaging — * Declared value limit $500

- [ ] FedEx Envelope/Letter*
- [ ] FedEx Pak*
- [X] Other Pkg. — Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling — Include FedEx address in Section 3.

- [ ] SATURDAY Delivery — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] SUNDAY Delivery — Available for FedEx Priority Overnight to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available with FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [ ] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Dangerous Goods cannot be shipped in FedEx packaging.

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [X] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

FedEx Acct. No. / Credit Card No. Exp. Date

Total Packages	Total Weight	Total Declared Value†
	38	$ .00

†Our liability is limited to $100 unless you declare a higher value. See back for details.

FedEx Use Only

8 Release Signature — Sign to authorize delivery without obtaining signature.

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

402

Rev. Date 3/00 • Part #156912G • ©1994-2000 FedEx • PRINTED IN U.S.A. GBFE 9/00

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SEVERN TRENT SERVICES
STL Savannah
5102 LaRoche Avenue • Savannah, GA 31404 • Tel: 912 354 7858 • Fax: 912 352 0165 • www.stl-inc.com

LOG NO: S0-07357
Received: 26 OCT 00
Reported: 28 NOV 00
Revised: 30 JAN 01

RECEIVED FEB 02 2001

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: 979007.A0.23/WILMINGTON
Sampled By: Client
Code: 102310130

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
07357-1	17184 SS-9DF	10-24-00/08:00
07357-2	17185 SS-10A-DF	10-24-00/08:55
07357-3	17186 SD-07DF	10-24-00/10:10
07357-4	17187 SD-06DF	10-24-00/11:00
07357-5	17188 SD-41DF	10-24-00/12:45

PARAMETER	07357-1	07357-2	07357-3	07357-4	07357-5
Total Organic Carbon (9060), mg/kg dw	5200	25000	100000	11000	61000
Total Organic Carbon - SQL Total Organic Carbon, mg/kg dw	500	500	500	500	500
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	4.0	8.1	31	6.3	110
Ammonia - SQL Ammonia-N, mg/kg dw	0.74	1.3	2.1	0.82	7.7
Percent Solids	68	39	24	61	13

SEVERN TRENT SERVICES
STL Savannah
5102 LaRoche Avenue • Savannah, GA 31404 • Tel: 912 354 7858 • Fax: 912 352 0165 • www.stl-Inc.com

LOG NO: S0-07357
Received: 26 OCT 00
Reported: 28 NOV 00

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: 979007.A0.23/WILMINGTON
Sampled By: Client
Code: 161301128

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
07357-6	17189 BK-S1DF	10-24-00/13:40
07357-7	17190 SS-23DF	10-24-00/15:40
07357-8	17191 SS-21DF	10-24-00/16:15
07357-9	17192 SS-19DF	10-24-00/16:40
07357-10	17193 SS-16DF	10-24-00/17:00

PARAMETER	07357-6	07357-7	07357-8	07357-9	07357-10
Total Organic Carbon (9060), mg/kg dw	ND	23000	1900	ND	18000
Total Organic Carbon - SQL					
Total Organic Carbon, mg/kg dw	500	23000	1900	500	18000
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	3.2	4.2	1.3	0.67	3.0
Ammonia - SQL					
Ammonia-N, mg/kg dw	3.2	4.2	1.3	0.67	3.0
Percent Solids	73	47	77	83	66

SEVERN TRENT SERVICES
STL Savannah
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Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: 979007.A0.23/WILMINGTON
Sampled By: Client
Code: 161301128

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
07357-11	17194 SD-40DF	10-24-00/17:30

PARAMETER	07357-11
Total Organic Carbon (9060), mg/kg dw	2400
Total Organic Carbon - SQL Total Organic Carbon, mg/kg dw	2400
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	1.8
Ammonia - SQL Ammonia-N, mg/kg dw	1.8
Percent Solids	73

SEVERN TRENT SERVICES
STL Savannah
5102 LaRoche Avenue • Savannah, GA 31404 • Tel: 912 354 7858 • Fax: 912 352 0165 • www.stl-inc.com

LOG NO: S0-07357
Received: 26 OCT 00
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Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: 979007.A0.23/WILMINGTON
Sampled By: Client
Code: 161301128

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
07357-12	Method Blank	
07357-13	Practical Quantiation Limits	
07357-14	Method Detection Limits	
07357-15	Accuracy (mean % recovery)	
07357-16	Precision (%RPD)	

PARAMETER	07357-12	07357-13	07357-14	07357-15	07357-16
Total Organic Carbon (9060), mg/kg dw	ND	500	150	85 %	0 %
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	ND	0.50	0.075	87 %	7.3 %

SEVERN TRENT SERVICES
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Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: 979007.A0.23/WILMINGTON
Sampled By: Client
Code: 161301128

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
07357-17	Analyst Initials	
07357-18	Dates Extracted	
07357-19	Dates Analyzed	

PARAMETER	07357-17	07357-18	07357-19
Total Organic Carbon (9060)	TH	---	11.17.00
Ammonia (as N) (EPA/CE-81-1(3-140))	DM	---	10.30.00

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.
Methods: EPA SW-846 ND = Not Detected

Gloria D. Fulwood

Gloria D. Fulwood, Project Manager

Final Page Of Report

SOIL/SEDIMENT SAMPLE COLLECTION FIELD DATA SHEET

PROJECT NAME: SWP- Wilmington

PROJECT NUMBER: 979007.A0.23

WEATHER: Clear 50°-75° F

SAMPLING METHOD: Stainless Steel Spoon & Glass Bowl

DECONTAMINATION METHOD: EPA Region IV

WASTE DISPOSAL METHOD: 55 gallon drum - labeled & placards

SAMPLE ID	DATE	TIME	DEPTH	ODOR	STAIN	FIELD SCREENING	SAMPLE DESCRIPTION	LOCATION/ DESCRIPTION	SAMP. INT.
SS 9 DF	10/24 2000	8:00	0" 1 3"	very slight	little	11.5	Top 1/2" leaf matte and sediments. 1/2"-3" silty fine to medium sand, gray -wet	Greenfield Creek 50' upstream of Tidal Gate	GBK JHM
SS 10A DF	10/24 2000	8:55	0" 1 3"	Moderate	Yes	>1999	OO, except 6"-10" leaf matt and sediments >10" fine to medium silty sand, gray-wet	Greenfield Creek 100' downstream of creek bend	GBK JHM
SD 07 DF	10/24 2000	10:10	0" 1 3"	Moderate	Yes	443	Top 1/2" leaf matte and roots, Silt w/ trace fine sand, brown-wet	Drainage Ditch at pipe crossing	GBK JHM
SD 06 DF	10/24 2000	11:00	0" 1 3"	Moderate	Yes	1211	Top 1" leaf matte. Silty fine to medium sand, dark brown-wet	Drainage Ditch 75' feet upstream of confluence with ditch south of colored ditch	GBK JHM
SD 41 DF	10/24 2000	12:45	0" 1 3"	no	no	4.8	Top 2" leaf matt and roots. Silty sediment w/ fine to medium sand, dark brown-wet	Wooded area north side of entrance road to site 100' down railroad track to north. 30' east into woods. Background Drainage Ditch Sample	GBK JHM

Check When Complete:

- X Bottles Labeled
- X Samples Iced
- X Sample Location Staked
- X Copy Of All Field Notes Sent With Sample To Lab
- X Lot Numbers Obtained For Samples
- X Samples Shipped For Overnight Delivery
- ___ Confirmed Samples Arrived At Lab
- X Data Recorded With Indelible Pen
- X Custody Form Completed
- X Sample Shipper Sealed
- X All Sampling Derived Waste Disposed Of Properly

Collector's Signature: Gregg B. Kuch

Date: 10/24/00

SOIL/SEDIMENT SAMPLE COLLECTION FIELD DATA SHEET

PROJECT NAME: SWP-Wilmington

PROJECT NUMBER: 979001.A0.23

WEATHER: clear 50°-70°

SAMPLING METHOD: Stainless Steel Spoon & Glass Bowl

DECONTAMINATION METHOD: EPA Region IV

WASTE DISPOSAL METHOD: 55-gallon drum - labeled & placards

SAMPLE ID	DATE	TIME	DEPTH	ODOR	STAIN	FIELD SCREENING	SAMPLE DESCRIPTION	LOCATION/ DESCRIPTION	SAMP. INT.
BK 51 DF	10/24 2000	13:40	0" 1 3"	No	No	13.5	Fine Sand trace silt, brown-wet	Below Greenfield Lake Dam next to road 10' above block weir on south side	GBK JHM
Equip 102400 DF	10/24 2000	14:45	← Equipment Blank →					Performed at Gate to site.	GBK JHM
SS 23 DF	10/24 2000	1540	0" 1 3"	NO	NO	1190	0"-2" Silty CLAY w/ Trace SAND - WET - DARK GRAY 2"-3" F SAND. WET - GRAY	Cape Fear River. 150' downstream of tidal gate off south bank near concrete.	GBK JHM
SS 21 DF	10/24 2000	1615	0" 1 3"	NO	NO	21.7	fine to medium sand brown-gray-wet	South slip on south bank 200' from east end of slip	GBK JHM
SS 19 DF	10/20 2000	1640	0" 1 3"	slight	NO	7.2	fine to medium sand brown-gray-wet	South Slip on north bank 200' from east end of slip	GBK JHM

Check When Complete:

- _____ Bottles Labeled
- _____ Samples Iced
- _____ Sample Location Staked
- _____ Copy Of All Field Notes Sent With Sample To Lab
- _____ Lot Numbers Obtained For Samples
- _____ Samples Shipped For Overnight Delivery
- _____ Confirmed Samples Arrived At Lab
- _____ Data Recorded With Indelible Pen
- _____ Custody Form Completed
- _____ Sample Shipper Sealed
- _____ All Sampling Derived Waste Disposed Of Properly

Collector's Signature: Gregory B. Kirby

Date: 10/24/00

SOIL/SEDIMENT SAMPLE COLLECTION FIELD DATA SHEET

PROJECT NAME: SWP-Wilmington

PROJECT NUMBER: 979007.A0.23

WEATHER: Clear 50°-70°F

SAMPLING METHOD: Stainless Steel Spoon & Glass Bowl

DECONTAMINATION METHOD: EPA Region IV

WASTE DISPOSAL METHOD: 55-gallon drum - labeled and placard

SAMPLE ID	DATE	TIME	DEPTH	ODOR	STAIN	FIELD SCREENING	SAMPLE DESCRIPTION	LOCATION/ DESCRIPTION	SAMP. INT.
SS 16 DF	10/24 2000	1700	0" 1 3"	no	NO	4.6	Silty, fine to medium sand, brown - wet	North slip on south bank 75' from east end of slip	GBK JHM
SD 40 DF	10/24 2000	17:30	0" 1 3"	no	NO	25.5	fine to medium sand with roots, brown - wet	Background Cape Fear River. 500' North of north drainage ditch in front of Hexar facility	GBK JHM
SD 40 DF-Dup	10/24 2000	17:30	0" 1 3"	no	no	"	"	"	GBK JHM

Check When Complete:

- _____ Bottles Labeled
- _____ Samples Iced
- _____ Sample Location Staked
- _____ Copy Of All Field Notes Sent With Sample To Lab
- _____ Lot Numbers Obtained For Samples
- _____ Samples Shipped For Overnight Delivery
- _____ Confirmed Samples Arrived At Lab
- _____ Data Recorded With Indelible Pen
- _____ Custody Form Completed
- _____ Sample Shipper Sealed
- _____ All Sampling Derived Waste Disposed Of Properly

Collector's Signature: Gregory B. Kurtz

Date: 10/24/00

PAGE 3 OF 3

Serial Number 029731

STL Savannah Laboratories
a division of Severn Trent Laboratories, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

⊗ 5102 LaRoche Avenue, Savannah, GA 31404 — Phone: (912) 354-7858 — Fax: (912) 352-0165
○ 2846 Industrial Plaza Drive, Tallahassee, FL 32301 — Phone: (850) 878-3994 — Fax: (850) 878-9504
○ 900 Lakeside Drive, Mobile, AL 36693 — Phone: (334) 666-6633 — Fax: (334) 666-6696
○ 6712 Benjamin Rd., Suite 100, Tampa, FL 33634 — Phone: (813) 885-7427 — Fax: (813) 885-7049

PROJECT REFERENCE: SWP-Wilmington	PROJECT NO.: 979007.A0.23	PROJECT LOCATION (STATE): NC	PAGE 1 OF 1
STL (LAB) PROJECT MANAGER: Fulwood	P.O. NUMBER:	CONTRACT NO.:	STANDARD REPORT DELIVERY ⊗ DATE DUE ____
CLIENT (SITE) PM: Gregory B. Kuntz	CLIENT PHONE: 803-796-6240	CLIENT FAX: 796-6250	EXPEDITED REPORT DELIVERY (SURCHARGE) ○ DATE DUE ____
CLIENT NAME: Schnabel Eng. Assoc.	CLIENT EMAIL: gkuntz@schnabel-eng.com		
CLIENT ADDRESS: 104 Corporate Blvd. Suite 420 West Columbia, SC 29169			
COMPANY CONTRACTING THIS WORK (if applicable):			NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

REQUIRED ANALYSES: TOC-9060; Ammonia 350.1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ETC)	TOC-9060 (NUMBER OF CONTAINERS SUBMITTED)	Ammonia 350.1 (NUMBER OF CONTAINERS SUBMITTED)	REMARKS
10/24/00	8:00	SS-9DF ✓ SWP-Log# 17184	G		X			1	1	SWP- Supplemental
	8:55	SS-10A-DF ✓ 17185								Remedial Investigation
	10:10	SD-07DF ✓ 17186								Analytical Requirements
	11:00	SD-06DF ✓ 17187								PQL, MDL & SQL
	12:45	SD-41DF ✓ 17188								
	13:40	BK-S1DF ✓ 17189								
	15:40	SS-23DF ✓ 17190								
	16:15	SS-21DF ✓ 17191								
	16:40	SS-19DF ✓ 17192								
	17:00	SS-16DF ✓ 17193								
	17:30	SD-40DF ✓ 17194								

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Swafford	10/12/00		Gregory B. Kuntz	10/25/00	11:35			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
Gregory B. Kuntz	10/15/00							

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	STL-SL LOG NO.	LABORATORY REMARKS:
D. McDonald	10-26-00	9:30	YES ✕ NO		07357	

ORIGINAL

FedEx USA Airbill FedEx Tracking Number 824136805198

1 From *Please print and press hard.*

Date 1/11/01 Sender's FedEx Account Number 2181-1829-1

Sender's Name Greg Kuntz Phone (803) 796-6240

Company SCHNABEL ENGINEERING ASSOC

Address 104 CORPORATE BLVD STE 420 Dept./Floor/Suite/Room

City WEST COLUMBIA State SC ZIP 29169

2 Your Internal Billing Reference First 24 characters will appear on invoice. 979007.A0-27

3 To Recipient's Name Gloria Fulwood Phone (912) 354-7858

Company Severn Trent Services

Address 5102 LaRoche Avenue To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept./Floor/Suite/Room

City Savannah State GA ZIP 31404

Peel and Stick FedEx USA Airbill

See back for application instructions.

Questions? Call 1·800·Go·FedEx® (800-463-3339)

Visit our Web site at www.fedex.com

By using this Airbill you agree to the service conditions on the back of this Airbill and in our current Service Guide, including terms that limit our liability.

0156288956

Form I.D. No. 0215 **Sender's Copy**

4a Express Package Service — *Packages up to 150 lbs.* Delivery commitment may be later in some areas.

- [X] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

* FedEx Envelope/Letter Rate not available. Minimum charge: One-pound rate

4b Express Freight Service — *Packages over 150 lbs.* Delivery commitment may be later in some areas.

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation: _____

5 Packaging — * Declared value limit $500

- [ ] FedEx Envelope/Letter*
- [ ] FedEx Pak*
- [X] Other Pkg. — Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling — Include FedEx address in Section 3.

- [ ] SATURDAY Delivery — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] SUNDAY Delivery — Available for FedEx Priority Overnight to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available with FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [ ] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Dangerous Goods cannot be shipped in FedEx packaging.

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [X] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

FedEx Acct. No. / Credit Card No. Exp. Date

Total Packages	Total Weight	Total Declared Value†
2	84	$ .00

†Our liability is limited to $100 unless you declare a higher value. See back for details. FedEx Use Only

8 Release Signature *Sign to authorize delivery without obtaining signature.*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

402

Rev. Date 3/00 • Part #155812G • ©1994-2000 FedEx • PRINTED IN U.S.A. GBFE 9/00

PULL AND RETAIN THIS COPY BEFORE AFFIXING TO THE PACKAGE.

SEVERN TRENT SERVICES
STL Savannah
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LOG NO: S1-10209
Received: 12 JAN 01
Reported: 24 JAN 01

RECEIVED JAN 31 2001

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 101510125

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10209-1	SD-35 (#17338)	01-10-01/13:00
10209-2	SD-34 (#17339)	01-10-01/14:05
10209-3	SD-33 (#17341)	01-10-01/14:55
10209-4	SD-32 (#17342)	01-10-01/15:20
10209-5	SD-31 (#17344)	01-10-01/15:35

PARAMETER	10209-1	10209-2	10209-3	10209-4	10209-5
Volatiles by GC/MS (8260)					
Methylene chloride (Dichloromethane), mg/kg dw	ND	ND	ND	ND	ND
Acetone, mg/kg dw	0.11	0.50	ND	ND	ND
Chloroform, mg/kg dw	ND	ND	ND	ND	ND
2-Butanone (MEK), mg/kg dw	ND	ND	ND	ND	ND
Bromodichloromethane, mg/kg dw	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane, mg/kg dw	ND	ND	ND	ND	ND
1,2-Dichloropropane, mg/kg dw	ND	ND	ND	ND	ND
1,1,2-Trichloroethane, mg/kg dw	ND	ND	ND	ND	ND
Benzene, mg/kg dw	ND	ND	ND	ND	ND
Toluene, mg/kg dw	ND	ND	ND	ND	ND
Ethylbenzene, mg/kg dw	ND	ND	ND	ND	ND
Xylenes, Total, mg/kg dw	ND 0.11	ND 0.50	ND 0	ND 0	ND 0
Total Organic Carbon (9060), mg/kg dw	16000	90000	1000	11000	2700
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	6.4	19	ND	4.9	2.9

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10209-3	SD-33 (#17341)	01-10-01/14:55
10209-4	SD-32 (#17342)	01-10-01/15:20
10209-5	SD-31 (#17344)	01-10-01/15:35

PARAMETER	10209-1	10209-2	10209-3	10209-4	10209-5
Acid & Base Neutral Extractables (8270)					
Naphthalene, mg/kg dw	ND	ND	ND	ND	ND
2-Chloronaphthalene, mg/kg dw	ND	ND	ND	ND	ND
Acenaphthylene, mg/kg dw	ND	ND	ND	ND	ND
Acenaphthene, mg/kg dw	ND	ND	ND	ND	ND
Fluorene, mg/kg dw	ND	ND	ND	ND	ND
Hexachlorobenzene, mg/kg dw	ND	ND	ND	ND	ND
Phenanthrene, mg/kg dw	ND	ND	ND	ND	ND
Anthracene, mg/kg dw	ND	2.9	ND	ND	ND
Di-n-butylphthalate, mg/kg dw	ND	ND	ND	ND	ND
Fluoranthene, mg/kg dw	ND	9.3	ND	1.4	ND
Pyrene, mg/kg dw	0.71	5.4	ND	1.0	ND
bis(2-Ethylhexyl)phthalate, mg/kg dw	ND	ND	ND	ND	ND
Chrysene, mg/kg dw	0.80	4.6	ND	0.94	ND
Benzo(a)anthracene, mg/kg dw	ND	3.2	ND	0.65	ND
Benzo(b)fluoranthene, mg/kg dw	1.5	3.0	ND	ND	ND
Benzo(k)fluoranthene, mg/kg dw	1.3	2.3	ND	ND	ND
Benzo(a)pyrene, mg/kg dw	0.58	1.9	ND	ND	ND
Indeno(1,2,3-cd)pyrene, mg/kg dw	0.61	ND	ND	ND	ND

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10209-3	SD-33 (#17341)	01-10-01/14:55
10209-4	SD-32 (#17342)	01-10-01/15:20
10209-5	SD-31 (#17344)	01-10-01/15:35

PARAMETER	10209-1	10209-2	10209-3	10209-4	10209-5
Dibenzo(a,h)anthracene, mg/kg dw	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene, mg/kg dw	0.61	ND	ND	ND	ND
2-Chlorophenol, mg/kg dw	ND	ND	ND	ND	ND
Phenol, mg/kg dw	ND	ND	ND	ND	ND
2,4-Dimethylphenol, mg/kg dw	ND	ND	ND	ND	ND
Pentachlorophenol, mg/kg dw	ND	ND	ND	ND	ND
2-Methylphenol (o-Cresol), mg/kg dw	ND	ND	ND	ND	ND
2-Methylnaphthalene, mg/kg dw	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol, mg/kg dw	ND	ND	ND	ND	ND
Dibenzofuran, mg/kg dw	ND	ND	ND	ND	ND
Carbazole, mg/kg dw	ND	ND	ND	ND	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/kg dw	ND	ND	ND	ND	ND
Tetrachlorophenols, mg/kg dw	ND	ND	ND	ND	ND
Dilution factor	~~1~~ 6.11	~~1~~ 32.6	~~1~~ 0	~~1~~ 3.99	~~1~~ 0
Arsenic (6010), mg/kg dw	ND	8.2	ND	ND	ND
Chromium (6010), mg/kg dw	4.9	23	1.8	3.9	2.3
Copper (6010), mg/kg dw	4.5	65	ND	43	ND

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10209-3	SD-33 (#17341)	01-10-01/14:55
10209-4	SD-32 (#17342)	01-10-01/15:20
10209-5	SD-31 (#17344)	01-10-01/15:35

PARAMETER	10209-1	10209-2	10209-3	10209-4	10209-5
Percent Solids	71	23	80	54	81

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10209-6	SD-30 (#17345)	01-10-01/16:50

PARAMETER	10209-6
Volatiles by GC/MS (8260)	
Methylene chloride (Dichloromethane), mg/kg dw	ND
Acetone, mg/kg dw	0.14
Chloroform, mg/kg dw	ND
2-Butanone (MEK), mg/kg dw	ND
Bromodichloromethane, mg/kg dw	ND
1,1,2,2-Tetrachloroethane, mg/kg dw	ND
1,2-Dichloropropane, mg/kg dw	ND
1,1,2-Trichloroethane, mg/kg dw	ND
Benzene, mg/kg dw	ND
Toluene, mg/kg dw	ND
Ethylbenzene, mg/kg dw	ND
Xylenes, Total, mg/kg dw	ND 0.14
Total Organic Carbon (9060), mg/kg dw	21000
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	9.5

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10209-6	SD-30 (#17345)	01-10-01/16:50

PARAMETER	10209-6
Acid & Base Neutral Extractables (8270)	
Naphthalene, mg/kg dw	ND
2-Chloronaphthalene, mg/kg dw	ND
Acenaphthylene, mg/kg dw	ND
Acenaphthene, mg/kg dw	ND
Fluorene, mg/kg dw	ND
Hexachlorobenzene, mg/kg dw	ND
Phenanthrene, mg/kg dw	ND
Anthracene, mg/kg dw	0.91
Di-n-butylphthalate, mg/kg dw	ND
Fluoranthene, mg/kg dw	1.4
Pyrene, mg/kg dw	0.96
bis(2-Ethylhexyl)phthalate, mg/kg dw	ND
Chrysene, mg/kg dw	ND
Benzo(a)anthracene, mg/kg dw	ND
Benzo(b)fluoranthene, mg/kg dw	ND
Benzo(k)fluoranthene, mg/kg dw	ND
Benzo(a)pyrene, mg/kg dw	ND
Indeno(1,2,3-cd)pyrene, mg/kg dw	ND
Dibenzo(a,h)anthracene, mg/kg dw	ND
Benzo(g,h,i)perylene, mg/kg dw	ND
2-Chlorophenol, mg/kg dw	ND
Phenol, mg/kg dw	ND

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10209-6	SD-30 (#17345)	01-10-01/16:50

PARAMETER	10209-6
2,4-Dimethylphenol, mg/kg dw	ND
Pentachlorophenol, mg/kg dw	ND
2-Methylphenol (o-Cresol), mg/kg dw	ND
2-Methylnaphthalene, mg/kg dw	ND
2,4,5-Trichlorophenol, mg/kg dw	ND
Dibenzofuran, mg/kg dw	ND
Carbazole, mg/kg dw	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/kg dw	ND
Tetrachlorophenols, mg/kg dw	ND
Dilution factor	~~1~~ 3.27
Arsenic (6010), mg/kg dw	ND
Chromium (6010), mg/kg dw	7.8
Copper (6010), mg/kg dw	5.8
Percent Solids	49

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Code: 101510125

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10209-7	SS-11 (#17343)	01-10-01/16:10
10209-8	SD-09 (#17340)	01-10-01/14:30
10209-9	SS-24 (#17347)	01-11-01/12:30
10209-10	SD-10 (#17348)	01-11-01/13:10
10209-11	SS-22 (#17349)	01-11-01/13:35

PARAMETER	10209-7	10209-8	10209-9	10209-10	10209-11
Total Organic Carbon (9060), mg/kg dw	2300	10000	1200	55000	4200
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	ND	2.0	ND	36	5.6
Percent Solids	80	63	74	25	67

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10209-12	SS-20 (#17350)	01-11-01/14:00
10209-13	SD-11 (#17351)	01-11-01/14:20
10209-14	SS-18 (#17352)	01-11-01/14:45
10209-15	SS-17 (#17353)	01-11-01/15:10
10209-16	SS-15 (#17354)	01-11-01/15:45

PARAMETER	10209-12	10209-13	10209-14	10209-15	10209-16
Total Organic Carbon (9060), mg/kg dw	41000	57000	4300	920	4400
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	96	120	3.7	ND	2.8
Percent Solids	34	25	70	87	71

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Sampled By: Client
Code: 101510125

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10209-17	Equip11101	01-11-01/09:10

PARAMETER	10209-17
Acid & Base Neutral Extractables (8270)	
Naphthalene, mg/l	ND
2-Chloronaphthalene, mg/l	ND
Acenaphthylene, mg/l	ND
Acenaphthene, mg/l	ND
Fluorene, mg/l	ND
Hexachlorobenzene, mg/l	ND
Phenanthrene, mg/l	ND
Anthracene, mg/l	ND
Di-n-butylphthalate, mg/l	ND
Fluoranthene, mg/l	ND
Pyrene, mg/l	ND
bis(2-Ethylhexyl)phthalate, mg/l	ND
Chrysene, mg/l	ND
Benzo(a)anthracene, mg/l	ND
Benzo(b)fluoranthene, mg/l	ND
Benzo(k)fluoranthene, mg/l	ND
Benzo(a)pyrene, mg/l	ND
Indeno(1,2,3-cd)pyrene, mg/l	ND
Dibenzo(a,h)anthracene, mg/l	ND
Benzo(g,h,i)perylene, mg/l	ND
2-Chlorophenol, mg/l	ND
Phenol, mg/l	ND

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Sampled By: Client
Code: 101510125

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10209-17	Equip11101	01-11-01/09:10

PARAMETER	10209-17
2,4-Dimethylphenol, mg/l	ND
Pentachlorophenol, mg/l	ND
2-Methylphenol (o-Cresol), mg/l	ND
2-Methylnaphthalene, mg/l	ND
2,4,5-Trichlorophenol, mg/l	ND
Dibenzofuran, mg/l	ND
Carbazole, mg/l	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	ND
Tetrachlorophenols, mg/l	ND
Dilution factor	1
Arsenic (6010), mg/l	ND
Chromium (6010), mg/l	ND
Copper (6010), mg/l	ND

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Sampled By: Client
Code: 101510125

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10209-18	Method Blank	
10209-19	Detection Limit	
10209-34	Accuracy (mean % recovery)	
10209-20	Precision (% RPD)	
10209-21	Analyst Initials	

PARAMETER	10209-18	10209-19	10209-34	10209-20	10209-21
Total Organic Carbon (9060), mg/kg dw	ND	500	81 %	1.4 %	RD
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	ND	0.50	87 %	3.4 %	RD

SEVERN TRENT SERVICES
STL Savannah
5102 LaRoche Avenue • Savannah, GA 31404 • Tel: 912 354 7858 • Fax: 912 352 0165 • www.stl-inc.com

LOG NO: S1-10209
Received: 12 JAN 01
Reported: 24 JAN 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 101510125

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10209-18	Method Blank	
10209-19	Detection Limit	
10209-34	Accuracy (mean % recovery)	
10209-20	Precision (% RPD)	
10209-21	Analyst Initials	

PARAMETER	10209-18	10209-19	10209-34	10209-20	10209-21
Acid & Base Neutral Extractables (8270)					
Naphthalene, mg/kg dw	ND	0.33	---	---	TN
2-Chloronaphthalene, mg/kg dw	ND	0.33	---	---	TN
Acenaphthylene, mg/kg dw	ND	0.33	---	---	TN
Acenaphthene, mg/kg dw	ND	0.33	72 %	4 %	TN
Fluorene, mg/kg dw	ND	0.33	---	---	TN
Hexachlorobenzene, mg/kg dw	ND	0.33	---	---	TN
Phenanthrene, mg/kg dw	ND	0.33	---	---	TN
Anthracene, mg/kg dw	ND	0.33	---	---	TN
Di-n-butylphthalate, mg/kg dw	ND	0.33	---	---	TN
Fluoranthene, mg/kg dw	ND	0.33	---	---	TN
Pyrene, mg/kg dw	ND	0.33	79 %	0 %	TN
bis(2-Ethylhexyl)phthalate, mg/kg dw	ND	0.33	---	---	TN
Chrysene, mg/kg dw	ND	0.33	---	---	TN
Benzo(a)anthracene, mg/kg dw	ND	0.33	---	---	TN
Benzo(b)fluoranthene, mg/kg dw	ND	0.33	---	---	TN
Benzo(k)fluoranthene, mg/kg dw	ND	0.33	---	---	TN
Benzo(a)pyrene, mg/kg dw	ND	0.33	---	---	TN
Indeno(1,2,3-cd)pyrene, mg/kg dw	ND	0.33	---	---	TN

SEVERN TRENT SERVICES
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Project: WILMINGTON
Sampled By: Client
Code: 101510125

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10209-18	Method Blank	
10209-19	Detection Limit	
10209-34	Accuracy (mean % recovery)	
10209-20	Precision (% RPD)	
10209-21	Analyst Initials	

PARAMETER	10209-18	10209-19	10209-34	10209-20	10209-21
Dibenzo(a,h)anthracene, mg/kg dw	ND	0.33	---	---	TN
Benzo(g,h,i)perylene, mg/kg dw	ND	0.33	---	---	TN
2-Chlorophenol, mg/kg dw	ND	0.33	68 %	4 %	TN
Phenol, mg/kg dw	ND	0.33	62 %	5 %	TN
2,4-Dimethylphenol, mg/kg dw	ND	0.33	---	---	TN
Pentachlorophenol, mg/kg dw	ND	1.7	70 %	0 %	TN
2-Methylphenol (o-Cresol), mg/kg dw	ND	0.33	---	---	TN
2-Methylnaphthalene, mg/kg dw	ND	0.33	---	---	TN
2,4,5-Trichlorophenol, mg/kg dw	ND	0.33	---	---	TN
Dibenzofuran, mg/kg dw	ND	0.33	---	---	TN
Carbazole, mg/kg dw	ND	0.33	---	---	TN
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/kg dw	ND	0.33	---	---	TN
Tetrachlorophenols, mg/kg dw	ND	0.33	---	---	TN
Dilution factor	1	1	---	---	---
Arsenic (6010), mg/kg dw	ND	1.0	102 %	1.5 %	KT
Chromium (6010), mg/kg dw	ND	1.0	109 %	1.7 %	KT
Copper (6010), mg/kg dw	ND	2.0	108 %	0.82 %	KT

SEVERN TRENT SERVICES

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STL Savannah

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Received: 12 JAN 01
Reported: 24 JAN 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 101510125

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10209-22	EPA Method Numbers	
10209-23	Dates Extracted	
10209-24	Dates Analyzed	

PARAMETER	10209-22	10209-23	10209-24
Total Organic Carbon (9060)	9060	---	01.17.01
Ammonia (as N) (EPA/CE-81-1(3-140))	350.1	---	01.18.01

SEVERN TRENT SERVICES
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Received: 12 JAN 01
Reported: 24 JAN 01

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Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 101510125

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10209-22	EPA Method Numbers	
10209-23	Dates Extracted	
10209-24	Dates Analyzed	

PARAMETER	10209-22	10209-23	10209-24
Acid & Base Neutral Extractables (8270)			
Naphthalene	8270C	01.15.01	01.16.01
2-Chloronaphthalene	8270C	01.15.01	01.16.01
Acenaphthylene	8270C	01.15.01	01.16.01
Acenaphthene	8270C	01.15.01	01.16.01
Fluorene	8270C	01.15.01	01.16.01
Hexachlorobenzene	8270C	01.15.01	01.16.01
Phenanthrene	8270C	01.15.01	01.16.01
Anthracene	8270C	01.15.01	01.16.01
Di-n-butylphthalate	8270C	01.15.01	01.16.01
Fluoranthene	8270C	01.15.01	01.16.01
Pyrene	8270C	01.15.01	01.16.01
bis(2-Ethylhexyl)phthalate	8270C	01.15.01	01.16.01
Chrysene	8270C	01.15.01	01.16.01
Benzo(a)anthracene	8270C	01.15.01	01.16.01
Benzo(b)fluoranthene	8270C	01.15.01	01.16.01
Benzo(k)fluoranthene	8270C	01.15.01	01.16.01
Benzo(a)pyrene	8270C	01.15.01	01.16.01
Indeno(1,2,3-cd)pyrene	8270C	01.15.01	01.16.01
Dibenzo(a,h)anthracene	8270C	01.15.01	01.16.01
Benzo(g,h,i)perylene	8270C	01.15.01	01.16.01

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Received: 12 JAN 01
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Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 101510125

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10209-22	EPA Method Numbers	
10209-23	Dates Extracted	
10209-24	Dates Analyzed	

PARAMETER	10209-22	10209-23	10209-24
2-Chlorophenol	8270C	01.15.01	01.16.01
Phenol	8270C	01.15.01	01.16.01
2,4-Dimethylphenol	8270C	01.15.01	01.16.01
Pentachlorophenol	8270C	01.15.01	01.16.01
2-Methylphenol (o-Cresol)	8270C	01.15.01	01.16.01
2-Methylnaphthalene	8270C	01.15.01	01.16.01
2,4,5-Trichlorophenol	8270C	01.15.01	01.16.01
Dibenzofuran	8270C	01.15.01	01.16.01
Carbazole	8270C	01.15.01	01.16.01
3-Methylphenol/4-Methylphenol (m&p-Cresol)	8270C	01.15.01	01.16.01
Tetrachlorophenols	8270C	01.15.01	01.16.01
Arsenic (6010)	6010	---	01.16.01
Chromium (6010)	6010	---	01.16.01
Copper (6010)	6010	---	01.16.01

SEVERN TRENT SERVICES
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Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 101510125

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10209-26	Method Blank	
10209-27	Detection Limit	
10209-28	Accuracy (Mean % Rec)	
10209-29	Precision (%RPD)	
10209-30	Analyst Initials	

PARAMETER	10209-26	10209-27	10209-28	10209-29	10209-30
Acid & Base Neutral Extractables (8270)					
Naphthalene, mg/l	ND	0.010	---	---	TN
2-Chloronaphthalene, mg/l	ND	0.010	---	---	TN
Acenaphthylene, mg/l	ND	0.010	---	---	TN
Acenaphthene, mg/l	ND	0.010	81 %	12 %	TN
Fluorene, mg/l	ND	0.010	---	---	TN
Hexachlorobenzene, mg/l	ND	0.010	---	---	TN
Phenanthrene, mg/l	ND	0.010	---	---	TN
Anthracene, mg/l	ND	0.010	---	---	TN
Di-n-butylphthalate, mg/l	ND	0.010	---	---	TN
Fluoranthene, mg/l	ND	0.010	---	---	TN
Pyrene, mg/l	ND	0.010	88 %	9 %	TN
bis(2-Ethylhexyl)phthalate, mg/l	ND	0.010	---	---	TN
Chrysene, mg/l	ND	0.010	---	---	TN
Benzo(a)anthracene, mg/l	ND	0.010	---	---	TN
Benzo(b)fluoranthene, mg/l	ND	0.010	---	---	TN
Benzo(k)fluoranthene, mg/l	ND	0.010	---	---	TN
Benzo(a)pyrene, mg/l	ND	0.010	---	---	TN
Indeno(1,2,3-cd)pyrene, mg/l	ND	0.010	---	---	TN

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CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 101510125

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10209-26	Method Blank	
10209-27	Detection Limit	
10209-28	Accuracy (Mean % Rec)	
10209-29	Precision (%RPD)	
10209-30	Analyst Initials	

PARAMETER	10209-26	10209-27	10209-28	10209-29	10209-30
Dibenzo(a,h)anthracene, mg/l	ND	0.010	---	---	TN
Benzo(g,h,i)perylene, mg/l	ND	0.010	---	---	TN
2-Chlorophenol, mg/l	ND	0.010	82 %	6 %	TN
Phenol, mg/l	ND	0.010	75 %	5 %	TN
2,4-Dimethylphenol, mg/l	ND	0.010	---	---	TN
Pentachlorophenol, mg/l	ND	0.050	78 %	11 %	TN
2-Methylphenol (o-Cresol), mg/l	ND	0.010	---	---	TN
2-Methylnaphthalene, mg/l	ND	0.010	---	---	TN
2,4,5-Trichlorophenol, mg/l	ND	0.010	---	---	TN
Dibenzofuran, mg/l	ND	0.010	---	---	TN
Carbazole, mg/l	ND	0.010	---	---	TN
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	ND	0.010	---	---	TN
Tetrachlorophenols, mg/l	ND	0.010	---	---	TN
Dilution factor	1	1	---	---	---
Arsenic (6010), mg/l	ND	0.010	102 %	0.66 %	BJB
Chromium (6010), mg/l	ND	0.010	106 %	0.77 %	BJB
Copper (6010), mg/l	ND	0.020	104 %	1.0 %	BJB

SEVERN TRENT SERVICES
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LOG NO: S1-10209
Received: 12 JAN 01
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Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 101510125

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10209-31	EPA Method Numbers	
10209-32	Dates Extracted	
10209-33	Dates Analyzed	

PARAMETER	10209-31	10209-32	10209-33
Acid & Base Neutral Extractables (8270)			
Naphthalene	8270	01.16.01	01.22.01
2-Chloronaphthalene	8270	01.16.01	01.22.01
Acenaphthylene	8270	01.16.01	01.22.01
Acenaphthene	8270	01.16.01	01.22.01
Fluorene	8270	01.16.01	01.22.01
Hexachlorobenzene	8270	01.16.01	01.22.01
Phenanthrene	8270	01.16.01	01.22.01
Anthracene	8270	01.16.01	01.22.01
Di-n-butylphthalate	8270	01.16.01	01.22.01
Fluoranthene	8270	01.16.01	01.22.01
Pyrene	8270	01.16.01	01.22.01
bis(2-Ethylhexyl)phthalate	8270	01.16.01	01.22.01
Chrysene	8270	01.16.01	01.22.01
Benzo(a)anthracene	8270	01.16.01	01.22.01
Benzo(b)fluoranthene	8270	01.16.01	01.22.01
Benzo(k)fluoranthene	8270	01.16.01	01.22.01
Benzo(a)pyrene	8270	01.16.01	01.22.01
Indeno(1,2,3-cd)pyrene	8270	01.16.01	01.22.01
Dibenzo(a,h)anthracene	8270	01.16.01	01.22.01
Benzo(g,h,i)perylene	8270	01.16.01	01.22.01

SEVERN TRENT SERVICES
STL Savannah
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LOG NO: S1-10209
Received: 12 JAN 01
Reported: 24 JAN 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 105910125

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10209-31	EPA Method Numbers	
10209-32	Dates Extracted	
10209-33	Dates Analyzed	

PARAMETER	10209-31	10209-32	10209-33
2-Chlorophenol	8270	01.16.01	01.22.01
Phenol	8270	01.16.01	01.22.01
2,4-Dimethylphenol	8270	01.16.01	01.22.01
Pentachlorophenol	8270	01.16.01	01.22.01
2-Methylphenol (o-Cresol)	8270	01.16.01	01.22.01
2-Methylnaphthalene	8270	01.16.01	01.22.01
2,4,5-Trichlorophenol	8270	01.16.01	01.22.01
Dibenzofuran	8270	01.16.01	01.22.01
Carbazole	8270	01.16.01	01.22.01
3-Methylphenol/4-Methylphenol (m&p-Cresol)	8270	01.16.01	01.22.01
Tetrachlorophenols	8270	01.16.01	01.22.01
Arsenic (6010)	6010	---	01.17.01
Chromium (6010)	6010	---	01.17.01
Copper (6010)	6010	---	01.17.01

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.
Methods: EPA SW-846
ND = Not Detected

Gloria D. Fulwood

Gloria D. Fulwood, Project Manager

Final Page Of Report

Serial Number 003463

SEVERN TRENT SERVICES

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Severn Trent Laboratories, Inc.

- ☒ 5102 LaRoche Avenue, Savannah, GA 31404 — Phone: (912) 354-7858 — Fax: (912) 352-0165
- ☐ 2846 Industrial Plaza Drive, Tallahassee, FL 32301 — Phone: (850) 878-3994 — Fax: (850) 878-9504
- ☐ 900 Lakeside Drive, Mobile, AL 36693 — Phone: (334) 666-6633 — Fax: (334) 666-6696
- ☐ 6712 Benjamin Road, Suite 100, Tampa, FL 33634 — Phone: (813) 885-7427 — Fax: (813) 885-7049

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
[illegible]	[illegible]	NC

STL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
[illegible]		

CLIENT (SITE)	CLIENT PHONE	CLIENT FAX
[illegible] Plant	904-599-1070	[illegible]

CLIENT NAME	CLIENT E-MAIL
[illegible]	[illegible]

CLIENT ADDRESS: [illegible] SC 29204

COMPANY CONTRACTING THIS WORK (if applicable): [illegible] SC - Greg Kurtz

PAGE 1 OF 2

STANDARD REPORT DELIVERY ☒ DATE DUE [illegible]

EXPEDITED REPORT DELIVERY (SURCHARGE) ☐ DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX Solid	MATRIX Liquid	VOC-Soil (Encore)	VOC-Soil (Bag)	TOC/Ammonia-Soil	SVOC-Soil	As/Cr/Cu-Soil	SVOC-Liquid	As/Cr/Cu-Liquid	VOC 8260-Liquid	REMARKS
[illegible]	[illegible]	SD-35 SUIP/log# 17338	X		3	1	1	1	1				
	[illegible]	SD-34 17339			1	1	1	1	1				
	[illegible]	SD-08											CBK-[illegible]
	[illegible]	SD-33 17341											
	[illegible]	SD-32 17342											*Wilmington Site
	[illegible]	SS-11 17343											Specific Conditions
	[illegible]	SD-31 17344			3	1	1	1	1				List
	[illegible]	SD-30 17345											
	[illegible]	SD-09 17346											
[illegible]	[illegible]	SD-[illegible] 17346		X						2	1	2	
	[illegible]	SS-04 17347	X				1						
	[illegible]	SD-10 17348					1						
	[illegible]	SS-[illegible] 17349					1						

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS	12/2/[illegible]	1:15	[illegible]	[illegible]	12:15			

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS								

LABORATORY USE ONLY

RECEIVED FOR LABORATORY USE BY (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES / NO	CUSTODY SEAL NO.	STL SEQUOG NO.	LABORATORY REMARKS

CLIENTS FIELD COPY

Serial Number 013402

SEVERN TRENT SERVICES

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Severn Trent Laboratories, Inc.

- [x] 5102 LaRoche Avenue, Savannah, GA 31404 — Phone: (912) 354-7858 — Fax: (912) 352-0165
- [ ] 2846 Industrial Plaza Drive, Tallahassee, FL 32301 — Phone: (850) 878-3994 — Fax: (850) 878-9504
- [ ] 900 Lakeside Drive, Mobile, AL 36693 — Phone: (334) 666-6633 — Fax: (334) 666-6696
- [ ] 6712 Benjamin Road, Suite 100, Tampa, FL 33634 — Phone: (813) 885-7427 — Fax: (813) 885-7049

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	PAGE	OF
[illegible]	[illegible]		2	2

STL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
[illegible]		

CLIENT (SITE)	CLIENT PHONE	CLIENT FAX
[illegible]	[illegible]	[illegible]

CLIENT NAME	CLIENT E-MAIL
Bill Accate	[illegible]@[illegible].com

CLIENT ADDRESS: [illegible] Spartanburg, SC 29304

COMPANY CONTRACTING THIS WORK (if applicable): [illegible] - Greg Kuala

STANDARD REPORT DELIVERY [x] DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) [ ] DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	Solid	VOC Soil (Encore)	VOC Soil (Bu[illegible])	TOC/Ammonia-Soil	SVOC-Soil	As/Cr/Cu-Soil								REMARKS
[illegible]	11:00	SS-20 Sup Log # 17350	X			1										*[illegible]
	11:20	SD-11 17351				1										See [illegible]
	11:45	SS-18 17352				1										List
	12:10	SS-17 17353				1										
	12:45	SS-15 17354				1										
	12:15	SD-40 17355		3	1	1	1	1								
	11:30	SD-40-Dup ----		3	1	1	1	1								

PRESERVATIVE

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			[illegible]	11/14	15:15			

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS								

LABORATORY USE ONLY

RECEIVED FOR LABORATORY USE BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	TEST LOG NO.	LABORATORY REMARKS

CLIENTS FIELD COPY

FedEx USA Airbill FedEx Tracking Number 824136805202

1 From *Please print and press hard.*

Date 1/18/01 Sender's FedEx Account Number 2181-1829-1

Sender's Name Greg Kuntz Phone (803) 796-6240

Company SCHNABEL ENGINEERING ASSOC

Address 104 CORPORATE BLVD STE 420 Dept./Floor/Suite/Room

City WEST COLUMBIA State SC ZIP 29169

2 Your Internal Billing Reference *First 24 characters will appear on invoice.*

3 To

Recipient's Name Gloria Fulwood Phone (912) 354-7858

Company Severn Trent Services

Address 5102 LaRoche Avenue

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

City Savannah State GA ZIP 31404

Peel and Stick FedEx USA Airbill

See back for application instructions.

Questions? Call 1·800·Go·FedEx® (800-463-3339)

Visit our Web site at www.fedex.com

By using this Airbill you agree to the service conditions on the back of this Airbill and in our current Service Guide, including terms that limit our liability.

0156288956

Sender's Copy

4a Express Package Service *Packages up to 150 lbs.* Delivery commitment may be later in some areas.

- [x] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

* FedEx Envelope/Letter Rate not available. Minimum charge: One-pound rate

4b Express Freight Service *Packages over 150 lbs.* Delivery commitment may be later in some areas.

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation: _____

5 Packaging * Declared value limit $500

- [ ] FedEx Envelope/Letter*
- [ ] FedEx Pak*
- [x] Other Pkg. — Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling Include FedEx address in Section 3.

- [ ] SATURDAY Delivery — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] SUNDAY Delivery — Available for FedEx Priority Overnight to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available with FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [ ] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous Goods cannot be shipped in FedEx packaging.

- [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [x] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

FedEx Acct. No. / Credit Card No. Exp. Date

Total Packages	Total Weight	Total Declared Value†
1		$ .00

†Our liability is limited to $100 unless you declare a higher value. See back for details.

FedEx Use Only

8 Release Signature *Sign to authorize delivery without obtaining signature.*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

402

Rev Date 3/00 • Part # 150691/G • 0/0914 2000 FedEx • PRINTED IN U.S.A. GBFE 9/00

PULL AND RETAIN THIS COPY BEFORE AFFIXING TO THE PACKAGE.

SEVERN TRENT SERVICES
STL Savannah
5102 LaRoche Avenue • Savannah, GA 31404 • Tel: 912 354 7858 • Fax: 912 352 0165 • www.stl-Inc.com

RECEIVED FEB 02 2001

LOG NO: S1-10349
Received: 19 JAN 01
Reported: 30 JAN 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON/SWP
Sampled By: Client
Code: 115510130

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10349-1	SD-46-COMP (#17372)	01-18-01/09:45
10349-2	SD-45-COMP (#17373)	01-18-01/11:00
10349-3	SD-45-COMP-DUP	01-18-01/11:10
10349-4	SD-44-COMP (#17374)	01-18-01/12:30
10349-5	SD-43-COMP (#17375)	01-18-01/13:30

PARAMETER	10349-1	10349-2	10349-3	10349-4	10349-5
Total Organic Carbon (9060), mg/kg dw	2400	880	880	100000	56000
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	4.6	1.3	0.71	13	0.66
Acid Volatile Sulfide, mg/kg dw	ND	ND	ND	ND	ND
Percent Solids	67	78	83	40	37

SEVERN TRENT SERVICES
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5102 LaRoche Avenue • Savannah, GA 31404 • Tel: 912 354 7858 • Fax: 912 352 0165 • www.stl-inc.com

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10349-6	SD-42-COPM (#17376)	01-18-01/14:30
10349-7	SD-47-COMP (#17377)	01-18-01/15:35

PARAMETER	10349-6	10349-7
Total Organic Carbon (9060), mg/kg dw	96000	8400
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	1.3	0.72
Acid Volatile Sulfide, mg/kg dw	ND	ND
Percent Solids	36	73

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Sampled By: Client
Code: 115510130

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10349-8	Method Blank	
10349-9	Detection Limits	
10349-10	Accuracy (mean % recovery)	
10349-11	Precision (%RPD)	
10349-12	Analyst Initials	

PARAMETER	10349-8	10349-9	10349-10	10349-11	10349-12
Total Organic Carbon (9060), mg/kg dw	ND	500	84 %	0 %	RD
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	ND	0.50	117 %	0.68 %	DM
Acid Volatile Sulfide, mg/kg dw	ND	10	62 %	12 %	RD

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Sampled By: Client
Code: 115510130

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10349-13	EPA Method Numbers	
10349-14	Dates Extracted	
10349-15	Dates Analyzed	

PARAMETER	10349-13	10349-14	10349-15
Total Organic Carbon (9060)	9060	---	01.26.01
Ammonia (as N) (EPA/CE-81-1(3-140))	350.1	---	01.24.01
Acid Volatile Sulfide	AVS	---	01.23.01

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.
Methods: EPA SW-846 ND = Not Detected

Gloria D. Fulwood

Gloria D. Fulwood, Project Manager

Final Page Of Report

Serial Number UU3461

SEVERN TRENT SERVICES

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Severn Trent Laboratories, Inc.

- [x] 5102 LaRoche Avenue, Savannah, GA 31404 — Phone: (912) 354-7858 — Fax: (912) 352-0165
- [ ] 2846 Industrial Plaza Drive, Tallahassee, FL 32301 — Phone: (850) 878-3994 — Fax: (850) 878-9504
- [ ] 900 Lakeside Drive, Mobile, AL 36693 — Phone: (334) 666-6633 — Fax: (334) 666-6696
- [ ] 6712 Benjamin Road, Suite 100, Tampa, FL 33634 — Phone: (813) 885-7427 — Fax: (813) 885-7049

PROJECT REFERENCE: SWP-Wilmington	PROJECT NO.: 979007-A0-27	PROJECT LOCATION (STATE): NC
STL (LAB) PROJECT MANAGER: G. Fulwood	P.O. NUMBER:	CONTRACT NO.:
CLIENT (SITE): Southern Wood Piedmont	CLIENT PHONE: 864-599-1070	CLIENT FAX: 864-599-1087
CLIENT NAME: Bill Arrants	CLIENT E-MAIL: willion.arrants@rayonier.com	
CLIENT ADDRESS: P.O. Box 5447 Spartanburg, SC 29304		
COMPANY CONTRACTING THIS WORK (if applicable): Schnabel Engineering - Greg Kurtz		

PAGE 1 OF 1

STANDARD REPORT DELIVERY [x] DATE DUE ____

EXPEDITED REPORT DELIVERY (SURCHARGE) [ ] DATE DUE ____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS / PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX TYPE: Solid	Total Organic Carbon (TOC)	Ammonia Acid Volatile Sulfide (AVS)	REMARKS
				NUMBER CONTAINERS SUBMITTED		
1/18/01	9:45	SD-46-Comp SWP Log# 17372	X	1	1	
	11:00	SD-45-Comp 17373				
	11:10	SD-45-Comp-Dup -----				
	12:30	SD-44-Comp 17374				
	13:30	SD-43-Comp 17375				
	14:30	SD-42-Comp 17376				
	15:35	SD-47-Comp 17377				

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Gregory B. Kurtz	1/18/01	17:30			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
EMPTY CONTAINERS								

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE) DATE TIME RECEIVED BY: (SIGNATURE) DATE TIME

FedEx. USA Airbill FedEx Tracking Number 824136805154

1 From *Please print and press hard.*

Date 1/23/01 Sender's FedEx Account Number 2181-1829-1

Sender's Name Greg Kurtz Phone (803) 796-6240

Company SCHNABEL ENGINEERING ASSOC

Address 104 CORPORATE BLVD STE 420

Dept./Floor/Suite/Room

City WEST COLUMBIA State SC ZIP 29169

2 Your Internal Billing Reference First 24 characters will appear on invoice.

3 To

Recipient's Name Gloria Fulwood Phone (912) 354-7858

Company Severn Trent Services

Address 5102 LaRoche Avenue

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

City Savannah State GA ZIP 31404

Peel and Stick FedEx USA Airbill

See back for application instructions.

Questions? Call 1·800·Go·FedEx* (800-463-3339)

Visit our Web site at www.fedex.com

By using this Airbill you agree to the service conditions on the back of this Airbill and in our current Service Guide, including terms that limit our liability.

0156288956

Sender's Copy

4a Express Package Service *Packages up to 150 lbs.* Delivery commitment may be later in some areas.

- [x] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

* FedEx Envelope/Letter Rate not available. Minimum charge: One-pound rate

4b Express Freight Service *Packages over 150 lbs.* Delivery commitment may be later in some areas.

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation: _____

5 Packaging * Declared value limit $500

- [ ] FedEx Envelope/Letter*
- [ ] FedEx Pak*
- [x] Other Pkg. — Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling Include FedEx address in Section 3.

- [ ] SATURDAY Delivery — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] SUNDAY Delivery — Available for FedEx Priority Overnight to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available with FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [ ] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous Goods cannot be shipped in FedEx packaging.

- [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [x] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

FedEx Acct. No. / Credit Card No. Exp. Date

Total Packages	Total Weight	Total Declared Value†
1	48	$ .00

†Our liability is limited to $100 unless you declare a higher value. See back for details.

FedEx Use Only

8 Release Signature *Sign to authorize delivery without obtaining signature.*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

402

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FEB 14 2001

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SEVERN TRENT SERVICES
STL Savannah

LOG NO: S1-10444
Received: 24 JAN 01
Reported: 08 FEB 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON/SWP
Sampled By: Client
Code: 12131029
Page 1

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10444-1	SD-30-DUP	01-23-01/09:30
10444-2	SD-29 (#17394)	01-23-01/10:00

PARAMETER	10444-1	10444-2
Total Organic Carbon (9060), mg/kg dw	36000	4800
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	3.0	1.9
Arsenic (6010), mg/kg dw	8.9	ND
Chromium (6010), mg/kg dw	19	3.5
Copper (6010), mg/kg dw	17	4.5

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10444-1	SD-30-DUP	01-23-01/09:30
10444-2	SD-29 (#17394)	01-23-01/10:00

PARAMETER	10444-1	10444-2
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/kg dw	ND	ND
Acetone, mg/kg dw	0.075J	0.15
Chloroform, mg/kg dw	ND	ND
2-Butanone (MEK), mg/kg dw	0.011J	0.013J
Bromodichloromethane, mg/kg dw	ND	ND
1,1,2,2-Tetrachloroethane, mg/kg dw	ND	ND
1,2-Dichloropropane, mg/kg dw	ND	ND
1,1,2-Trichloroethane, mg/kg dw	ND	ND
Benzene, mg/kg dw	ND	ND
Toluene, mg/kg dw	ND	ND
Ethylbenzene, mg/kg dw	ND	ND
Xylenes, Total, mg/kg dw	ND	ND
	0.086	0.163

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10444-1	SD-30-DUP	01-23-01/09:30
10444-2	SD-29 (#17394)	01-23-01/10:00

PARAMETER	10444-1	10444-2
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/kg dw	ND	ND
2-Chloronaphthalene, mg/kg dw	ND	ND
Acenaphthylene, mg/kg dw	0.34J	ND
Acenaphthene, mg/kg dw	0.21J	ND
Fluorene, mg/kg dw	0.25J	ND
Hexachlorobenzene, mg/kg dw	ND	ND
Phenanthrene, mg/kg dw	0.60J	ND
Anthracene, mg/kg dw	1.4	0.79
Di-n-butylphthalate, mg/kg dw	ND	ND
Fluoranthene, mg/kg dw	7.8	4.6
Pyrene, mg/kg dw	8.9	3.2
bis(2-Ethylhexyl)phthalate, mg/kg dw	ND	ND
Chrysene, mg/kg dw	6.9	2.9
Benzo(a)anthracene, mg/kg dw	3.7	1.8
Benzo(b)fluoranthene, mg/kg dw	5.1	2.4
Benzo(k)fluoranthene, mg/kg dw	4.4	1.6
Benzo(a)pyrene, mg/kg dw	3.4	1.3
Indeno(1,2,3-cd)pyrene, mg/kg dw	3.0	0.72
Dibenzo(a,h)anthracene, mg/kg dw	1.1	ND
Benzo(g,h,i)perylene, mg/kg dw	2.4	0.57

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10444-1	SD-30-DUP	01-23-01/09:30
10444-2	SD-29 (#17394)	01-23-01/10:00

PARAMETER	10444-1	10444-2
2-Chlorophenol, mg/kg dw	ND	ND
Phenol, mg/kg dw	ND	ND
2,4-Dimethylphenol, mg/kg dw	ND	ND
Pentachlorophenol, mg/kg dw	ND	ND
2-Methylphenol (o-Cresol), mg/kg dw	ND	ND
2-Methylnaphthalene, mg/kg dw	ND	ND
2,4,5-Trichlorophenol, mg/kg dw	ND	ND
Dibenzofuran, mg/kg dw	0.15J	ND
Carbazole, mg/kg dw	0.14J	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/kg dw	ND	ND
Tetrachlorophenols, mg/kg dw	ND	ND
Dilution factor	~~1~~ 49.79	~~1~~ 19.88
Percent Solids	44	63

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10444-3	SD-28 (#17400)	01-23-01/13:05
10444-4	SD-27 (#17401)	01-23-01/13:30

PARAMETER	10444-3	10444-4
Total Organic Carbon (9060), mg/kg dw	87000	48000
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	7.0	13
Arsenic (6010), mg/kg dw	13	9.2
Chromium (6010), mg/kg dw	24	16
Copper (6010), mg/kg dw	40	23

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10444-3	SD-28 (#17400)	01-23-01/13:05
10444-4	SD-27 (#17401)	01-23-01/13:30

PARAMETER	10444-3	10444-4
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/kg dw	ND	ND
Acetone, mg/kg dw	0.064J	0.048J
Chloroform, mg/kg dw	ND	ND
2-Butanone (MEK), mg/kg dw	0.029J	ND
Bromodichloromethane, mg/kg dw	ND	ND
1,1,2,2-Tetrachloroethane, mg/kg dw	ND	ND
1,2-Dichloropropane, mg/kg dw	ND	ND
1,1,2-Trichloroethane, mg/kg dw	ND	ND
Benzene, mg/kg dw	ND	ND
Toluene, mg/kg dw	ND	ND
Ethylbenzene, mg/kg dw	ND	ND
Xylenes, Total, mg/kg dw	ND	ND
	0.093	0.048

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10444-4	SD-27 (#17401)	01-23-01/13:30

PARAMETER	10444-3	10444-4
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/kg dw	ND	ND
2-Chloronaphthalene, mg/kg dw	ND	ND
Acenaphthylene, mg/kg dw	ND	ND
Acenaphthene, mg/kg dw	60	7.5
Fluorene, mg/kg dw	96	10
Hexachlorobenzene, mg/kg dw	ND	ND
Phenanthrene, mg/kg dw	230	26
Anthracene, mg/kg dw	200	13
Di-n-butylphthalate, mg/kg dw	ND	ND
Fluoranthene, mg/kg dw	390	49
Pyrene, mg/kg dw	230	30
bis(2-Ethylhexyl)phthalate, mg/kg dw	ND	ND
Chrysene, mg/kg dw	78	11
Benzo(a)anthracene, mg/kg dw	64	9.8
Benzo(b)fluoranthene, mg/kg dw	29	5.0
Benzo(k)fluoranthene, mg/kg dw	ND	4.8
Benzo(a)pyrene, mg/kg dw	ND	4.2
Indeno(1,2,3-cd)pyrene, mg/kg dw	ND	1.8
Dibenzo(a,h)anthracene, mg/kg dw	ND	ND
Benzo(g,h,i)perylene, mg/kg dw	ND	ND

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10444-4	SD-27 (#17401)	01-23-01/13:30

PARAMETER	10444-3	10444-4
2-Chlorophenol, mg/kg dw	ND	ND
Phenol, mg/kg dw	ND	ND
2,4-Dimethylphenol, mg/kg dw	ND	ND
Pentachlorophenol, mg/kg dw	ND	ND
2-Methylphenol (o-Cresol), mg/kg dw	ND	ND
2-Methylnaphthalene, mg/kg dw	ND	ND
2,4,5-Trichlorophenol, mg/kg dw	ND	ND
Dibenzofuran, mg/kg dw	45	4.3
Carbazole, mg/kg dw	ND	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/kg dw	ND	ND
Tetrachlorophenols, mg/kg dw	ND	ND
Dilution factor	~~20~~ 1422	~~2~~ 176.4
Percent Solids	35	39

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Received: 24 JAN 01
Reported: 08 FEB 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON/SWP
Sampled By: Client
Code: 12131029

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10444-5	SD-26 (#17402)	01-23-01/14:20

PARAMETER	10444-5
Total Organic Carbon (9060), mg/kg dw	150000
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	32
Arsenic (6010), mg/kg dw	14
Chromium (6010), mg/kg dw	23
Copper (6010), mg/kg dw	56
Volatiles by GC/MS (8260)	
Methylene chloride (Dichloromethane), mg/kg dw	ND
Acetone, mg/kg dw	0.14J
Chloroform, mg/kg dw	ND
2-Butanone (MEK), mg/kg dw	0.050J
Bromodichloromethane, mg/kg dw	ND
1,1,2,2-Tetrachloroethane, mg/kg dw	ND
1,2-Dichloropropane, mg/kg dw	ND
1,1,2-Trichloroethane, mg/kg dw	ND
Benzene, mg/kg dw	ND
Toluene, mg/kg dw	ND
Ethylbenzene, mg/kg dw	ND
Xylenes, Total, mg/kg dw	0.011J
	0.201

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10444-5	SD-26 (#17402)	01-23-01/14:20

PARAMETER	10444-5
Acid & Base Neutral Extractables (8270)	
Naphthalene, mg/kg dw	ND
2-Chloronaphthalene, mg/kg dw	ND
Acenaphthylene, mg/kg dw	ND
Acenaphthene, mg/kg dw	250
Fluorene, mg/kg dw	370
Hexachlorobenzene, mg/kg dw	ND
Phenanthrene, mg/kg dw	980
Anthracene, mg/kg dw	420
Di-n-butylphthalate, mg/kg dw	ND
Fluoranthene, mg/kg dw	650
Pyrene, mg/kg dw	360
bis(2-Ethylhexyl)phthalate, mg/kg dw	ND
Chrysene, mg/kg dw	110
Benzo(a)anthracene, mg/kg dw	100
Benzo(b)fluoranthene, mg/kg dw	ND
Benzo(k)fluoranthene, mg/kg dw	ND
Benzo(a)pyrene, mg/kg dw	ND
Indeno(1,2,3-cd)pyrene, mg/kg dw	ND
Dibenzo(a,h)anthracene, mg/kg dw	ND
Benzo(g,h,i)perylene, mg/kg dw	ND
2-Chlorophenol, mg/kg dw	ND
Phenol, mg/kg dw	ND

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10444-5	SD-26 (#17402)	01-23-01/14:20

PARAMETER	10444-5
2,4-Dimethylphenol, mg/kg dw	ND
Pentachlorophenol, mg/kg dw	ND
2-Methylphenol (o-Cresol), mg/kg dw	ND
2-Methylnaphthalene, mg/kg dw	ND
2,4,5-Trichlorophenol, mg/kg dw	ND
Dibenzofuran, mg/kg dw	200
Carbazole, mg/kg dw	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/kg dw	ND
Tetrachlorophenols, mg/kg dw	ND
Dilution factor	~~50~~ 340
Percent Solids	37

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10444-6	SD-8 (#17395)	01-23-01/10:25
10444-7	SS-12 (#17396)	01-23-01/10:45

PARAMETER	10444-6	10444-7
Total Organic Carbon (9060), mg/kg dw	50000	51000
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	2.7	15
Percent Solids	36	37

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10444-8	SS-13 (#17397)	01-23-01/11:10
10444-9	SS-1 (#17398)	01-23-01/12:15

PARAMETER	10444-8	10444-9
Total Organic Carbon (9060), mg/kg dw	38000	64000
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	6.0	7.3
Percent Solids	41	30

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10444-10	SD-20 (#17399)	01-23-01/12:35

PARAMETER	10444-10
Total Organic Carbon (9060), mg/kg dw	110000
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	8.1
Percent Solids	26

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Sampled By: Client
Code: 12131029

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10444-11	Equip12301 (#17403)	01-23-01/16:30

PARAMETER	10444-11
Acid & Base Neutral Extractables (8270)	
Naphthalene, mg/l	ND
2-Chloronaphthalene, mg/l	ND
Acenaphthylene, mg/l	ND
Acenaphthene, mg/l	ND
Fluorene, mg/l	ND
Hexachlorobenzene, mg/l	ND
Phenanthrene, mg/l	ND
Anthracene, mg/l	ND
Di-n-butylphthalate, mg/l	ND
Fluoranthene, mg/l	ND
Pyrene, mg/l	ND
bis(2-Ethylhexyl)phthalate, mg/l	ND
Chrysene, mg/l	ND
Benzo(a)anthracene, mg/l	ND
Benzo(b)fluoranthene, mg/l	ND
Benzo(k)fluoranthene, mg/l	ND
Benzo(a)pyrene, mg/l	ND
Indeno(1,2,3-cd)pyrene, mg/l	ND
Dibenzo(a,h)anthracene, mg/l	ND
Benzo(g,h,i)perylene, mg/l	ND
2-Chlorophenol, mg/l	ND
Phenol, mg/l	ND

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10444-11	Equip12301 (#17403)	01-23-01/16:30

PARAMETER	10444-11
2,4-Dimethylphenol, mg/l	ND
Pentachlorophenol, mg/l	ND
2-Methylphenol (o-Cresol), mg/l	ND
2-Methylnaphthalene, mg/l	ND
2,4,5-Trichlorophenol, mg/l	ND
Dibenzofuran, mg/l	ND
Carbazole, mg/l	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	ND
Tetrachlorophenols, mg/l	ND
Dilution factor	1
Arsenic (6010), mg/l	ND
Chromium (6010), mg/l	ND
Copper (6010), mg/l	ND

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10444-11	Equip12301 (#17403)	01-23-01/16:30

PARAMETER	10444-11
Volatiles by GC/MS (8260)	
Methylene chloride (Dichloromethane), mg/l	0.0013J
Acetone, mg/l	0.013J
Chloroform, mg/l	ND
2-Butanone (MEK), mg/l	ND
Bromodichloromethane, mg/l	ND
1,1,2,2-Tetrachloroethane, mg/l	ND
1,2-Dichloropropane, mg/l	ND
1,1,2-Trichloroethane, mg/l	ND
Benzene, mg/l	ND
Toluene, mg/l	ND
Ethylbenzene, mg/l	ND
Xylenes, Total, mg/l	ND

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10444-12	Method Blank	
10444-16	Practical Quantitation Limits (PQL)	

PARAMETER	10444-12	10444-16
Total Organic Carbon (9060), mg/kg dw	ND	500
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	ND	0.50
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/kg dw	ND	0.0050
Acetone, mg/kg dw	ND	0.050
Chloroform, mg/kg dw	ND	0.0050
2-Butanone (MEK), mg/kg dw	ND	0.025
Bromodichloromethane, mg/kg dw	ND	0.0050
1,1,2,2-Tetrachloroethane, mg/kg dw	ND	0.0050
1,2-Dichloropropane, mg/kg dw	ND	0.0050
1,1,2-Trichloroethane, mg/kg dw	ND	0.0050
Benzene, mg/kg dw	ND	0.0050
Toluene, mg/kg dw	ND	0.0050
Ethylbenzene, mg/kg dw	ND	0.0050
Xylenes, Total, mg/kg dw	ND	0.010

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10444-12	Method Blank	
10444-16	Practical Quantitation Limits (PQL)	

PARAMETER	10444-12	10444-16
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/kg dw	ND	0.33
2-Chloronaphthalene, mg/kg dw	ND	0.33
Acenaphthylene, mg/kg dw	ND	0.33
Acenaphthene, mg/kg dw	ND	0.33
Fluorene, mg/kg dw	ND	0.33
Hexachlorobenzene, mg/kg dw	ND	0.33
Phenanthrene, mg/kg dw	ND	0.33
Anthracene, mg/kg dw	ND	0.33
Di-n-butylphthalate, mg/kg dw	ND	0.33
Fluoranthene, mg/kg dw	ND	0.33
Pyrene, mg/kg dw	ND	0.33
bis(2-Ethylhexyl)phthalate, mg/kg dw	ND	0.33
Chrysene, mg/kg dw	ND	0.33
Benzo(a)anthracene, mg/kg dw	ND	0.33
Benzo(b)fluoranthene, mg/kg dw	ND	0.33
Benzo(k)fluoranthene, mg/kg dw	ND	0.33
Benzo(a)pyrene, mg/kg dw	ND	0.33
Indeno(1,2,3-cd)pyrene, mg/kg dw	ND	0.33
Dibenzo(a,h)anthracene, mg/kg dw	ND	0.33
Benzo(g,h,i)perylene, mg/kg dw	ND	0.33

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10444-12	Method Blank	
10444-16	Practical Quantitation Limits (PQL)	

PARAMETER	10444-12	10444-16
2-Chlorophenol, mg/kg dw	ND	0.33
Phenol, mg/kg dw	ND	0.33
2,4-Dimethylphenol, mg/kg dw	ND	0.33
Pentachlorophenol, mg/kg dw	ND	1.70
2-Methylphenol (o-Cresol), mg/kg dw	ND	0.33
2-Methylnaphthalene, mg/kg dw	ND	0.33
2,4,5-Trichlorophenol, mg/kg dw	ND	0.33
Dibenzofuran, mg/kg dw	ND	0.33
Carbazole, mg/kg dw	ND	0.33
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/kg dw	ND	0.33
Tetrachlorophenols, mg/kg dw	ND	0.33
Dilution factor	1	1
Arsenic (6010), mg/kg dw	ND	1.0
Chromium (6010), mg/kg dw	ND	1.0
Copper (6010), mg/kg dw	ND	2.0

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10444-31	Method Detection Limit (MDL)	
10444-17	Accuracy (mean % Rec)	

PARAMETER	10444-31	10444-17
Total Organic Carbon (9060), mg/kg dw	150	83 %
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	0.075	91 %
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/kg dw	0.0014	---
Acetone, mg/kg dw	0.0036	---
Chloroform, mg/kg dw	0.0017	---
2-Butanone (MEK), mg/kg dw	0.0033	---
Bromodichloromethane, mg/kg dw	0.00088	---
1,1,2,2-Tetrachloroethane, mg/kg dw	0.0010	---
1,2-Dichloropropane, mg/kg dw	0.0014	---
1,1,2-Trichloroethane, mg/kg dw	0.00096	---
Benzene, mg/kg dw	0.0017	103 %
Toluene, mg/kg dw	0.0018	111 %
Ethylbenzene, mg/kg dw	0.0020	---
Xylenes, Total, mg/kg dw	0.0016	---

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10444-31	Method Detection Limit (MDL)	
10444-17	Accuracy (mean % Rec)	

PARAMETER	10444-31	10444-17
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/kg dw	0.025	68 %
2-Chloronaphthalene, mg/kg dw	0.024	---
Acenaphthylene, mg/kg dw	0.021	74 %
Acenaphthene, mg/kg dw	0.029	72 %
Fluorene, mg/kg dw	0.031	74 %
Hexachlorobenzene, mg/kg dw	0.045	---
Phenanthrene, mg/kg dw	0.017	74 %
Anthracene, mg/kg dw	0.021	76 %
Di-n-butylphthalate, mg/kg dw	0.028	---
Fluoranthene, mg/kg dw	0.031	79 %
Pyrene, mg/kg dw	0.063	74 %
bis(2-Ethylhexyl)phthalate, mg/kg dw	0.045	---
Chrysene, mg/kg dw	0.021	76 %
Benzo(a)anthracene, mg/kg dw	0.020	76 %
Benzo(b)fluoranthene, mg/kg dw	0.023	70 %
Benzo(k)fluoranthene, mg/kg dw	0.026	72 %
Benzo(a)pyrene, mg/kg dw	0.029	72 %
Indeno(1,2,3-cd)pyrene, mg/kg dw	0.067	79 %
Dibenzo(a,h)anthracene, mg/kg dw	0.052	68 %

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10444-31	Method Detection Limit (MDL)	
10444-17	Accuracy (mean % Rec)	

PARAMETER	10444-31	10444-17
Benzo(g,h,i)perylene, mg/kg dw	0.026	---
2-Chlorophenol, mg/kg dw	0.032	70 %
Phenol, mg/kg dw	0.042	62 %
2,4-Dimethylphenol, mg/kg dw	0.028	79 %
Pentachlorophenol, mg/kg dw	0.18	64 %
2-Methylphenol (o-Cresol), mg/kg dw	0.032	73 %
2-Methylnaphthalene, mg/kg dw	0.032	---
2,4,5-Trichlorophenol, mg/kg dw	0.029	70 %
Dibenzofuran, mg/kg dw	0.030	---
Carbazole, mg/kg dw	0.022	76 %
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/kg dw	0.042	66 %
Tetrachlorophenols, mg/kg dw	0.061	66 %
Arsenic (6010), mg/kg dw	0.45	92 %
Chromium (6010), mg/kg dw	0.17	101 %
Copper (6010), mg/kg dw	0.72	108 %

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10444-18	Precision (%RPD)	
10444-19	Analyst Initials	

PARAMETER	10444-18	10444-19
Total Organic Carbon (9060)	2.4 %	Rob Davis
Ammonia (as N) (EPA/CE-81-1(3-140))	10 %	Rob Davis
Volatiles by GC/MS (8260)		
Benzene	2 %	Paul Grimm
Toluene	7 %	Paul Grimm
Methylene chloride (Dichloromethane)	---	Paul Grimm
Acetone	---	Paul Grimm
Chloroform	---	Paul Grimm
2-Butanone (MEK)	---	Paul Grimm
Bromodichloromethane	---	Paul Grimm
1,1,2,2-Tetrachloroethane	---	Paul Grimm
1,2-Dichloropropane	---	Paul Grimm
1,1,2-Trichloroethane	---	Paul Grimm
Ethylbenzene	---	Paul Grimm
Xylenes, Total	---	Paul Grimm

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10444-18	Precision (%RPD)	
10444-19	Analyst Initials	

PARAMETER	10444-18	10444-19
Acid & Base Neutral Extractables (8270)		
Naphthalene	13 %	Kim Humphreys
Acenaphthylene	12 %	Kim Humphreys
Acenaphthene	13 %	Kim Humphreys
Fluorene	12 %	Kim Humphreys
Phenanthrene	12 %	Kim Humphreys
Anthracene	16 %	Kim Humphreys
Fluoranthene	15 %	Kim Humphreys
Pyrene	12 %	Kim Humphreys
Chrysene	8 %	Kim Humphreys
Benzo(a)anthracene	16 %	Kim Humphreys
Benzo(b)fluoranthene	9 %	Kim Humphreys
Benzo(k)fluoranthene	13 %	Kim Humphreys
Benzo(a)pyrene	13 %	Kim Humphreys
Indeno(1,2,3-cd)pyrene	15 %	Kim Humphreys
Dibenzo(a,h)anthracene	4 %	Kim Humphreys
2-Chlorophenol	9 %	Kim Humphreys
Phenol	5 %	Kim Humphreys
2,4-Dimethylphenol	15 %	Kim Humphreys
Pentachlorophenol	19 %	Kim Humphreys
2-Methylphenol (o-Cresol)	8 %	Kim Humphreys

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LOG NO: S1-10444
Received: 24 JAN 01
Reported: 08 FEB 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON/SWP
Sampled By: Client
Code: 12131029

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10444-18	Precision (%RPD)	
10444-19	Analyst Initials	

PARAMETER	10444-18	10444-19
2,4,5-Trichlorophenol	9 %	Kim Humphreys
Carbazole	16 %	Kim Humphreys
3-Methylphenol/4-Methylphenol (m&p-Cresol)	5 %	Kim Humphreys
Tetrachlorophenols	14 %	Kim Humphreys
2-Chloronaphthalene	---	Kim Humphreys
Hexachlorobenzene	---	Kim Humphreys
Di-n-butylphthalate	---	Kim Humphreys
bis(2-Ethylhexyl)phthalate	---	Kim Humphreys
Benzo(g,h,i)perylene	---	Kim Humphreys
2-Methylnaphthalene	---	Kim Humphreys
Dibenzofuran	---	Kim Humphreys
Arsenic (6010)	3.8 %	Susan Norwood
Chromium (6010)	2.9 %	Susan Norwood
Copper (6010)	2.9 %	Susan Norwood

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10444-20	EPA Method Numbers	
10444-22	Dates Extracted	

PARAMETER	10444-20	10444-22
Total Organic Carbon (9060)	9060	---
Ammonia (as N) (EPA/CE-81-1(3-140))	350.1	---
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane)	8260	---
Acetone	8260	---
Chloroform	8260	---
2-Butanone (MEK)	8260	---
Bromodichloromethane	8260	---
1,1,2,2-Tetrachloroethane	8260	---
1,2-Dichloropropane	8260	---
1,1,2-Trichloroethane	8260	---
Benzene	8260	---
Toluene	8260	---
Ethylbenzene	8260	---
Xylenes, Total	8260	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10444-20	EPA Method Numbers	
10444-22	Dates Extracted	

PARAMETER	10444-20	10444-22
Acid & Base Neutral Extractables (8270)		
Naphthalene	8270C	01.26.01
2-Chloronaphthalene	8270C	01.26.01
Acenaphthylene	8270C	01.26.01
Acenaphthene	8270C	01.26.01
Fluorene	8270C	01.26.01
Hexachlorobenzene	8270C	01.26.01
Phenanthrene	8270C	01.26.01
Anthracene	8270C	01.26.01
Di-n-butylphthalate	8270C	01.26.01
Fluoranthene	8270C	01.26.01
Pyrene	8270C	01.26.01
bis(2-Ethylhexyl)phthalate	8270C	01.26.01
Chrysene	8270C	01.26.01
Benzo(a)anthracene	8270C	01.26.01
Benzo(b)fluoranthene	8270C	01.26.01
Benzo(k)fluoranthene	8270C	01.26.01
Benzo(a)pyrene	8270C	01.26.01
Indeno(1,2,3-cd)pyrene	8270C	01.26.01
Dibenzo(a,h)anthracene	8270C	01.26.01
Benzo(g,h,i)perylene	8270C	01.26.01

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10444-20	EPA Method Numbers	
10444-22	Dates Extracted	

PARAMETER	10444-20	10444-22
2-Chlorophenol	8270C	01.26.01
Phenol	8270C	01.26.01
2,4-Dimethylphenol	8270C	01.26.01
Pentachlorophenol	8270C	01.26.01
2-Methylphenol (o-Cresol)	8270C	01.26.01
2-Methylnaphthalene	8270C	01.26.01
2,4,5-Trichlorophenol	8270C	01.26.01
Dibenzofuran	8270C	01.26.01
Carbazole	8270C	01.26.01
3-Methylphenol/4-Methylphenol (m&p-Cresol)	8270C	01.26.01
Tetrachlorophenols	8270C	01.26.01
Arsenic (6010)	6010	---
Chromium (6010)	6010	---
Copper (6010)	6010	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10444-23	Dates Analyzed	

PARAMETER	10444-23
Total Organic Carbon (9060)	01.30.01
Ammonia (as N) (EPA/CE-81-1(3-140))	01.29.01
Volatiles by GC/MS (8260)	
Methylene chloride (Dichloromethane)	01.25.01
Acetone	01.25.01
Chloroform	01.25.01
2-Butanone (MEK)	01.25.01
Bromodichloromethane	01.25.01
1,1,2,2-Tetrachloroethane	01.25.01
1,2-Dichloropropane	01.25.01
1,1,2-Trichloroethane	01.25.01
Benzene	01.25.01
Toluene	01.25.01
Ethylbenzene	01.25.01
Xylenes, Total	01.25.01

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10444-23	Dates Analyzed	

PARAMETER	10444-23
Acid & Base Neutral Extractables (8270)	
Naphthalene	01.31.01
2-Chloronaphthalene	01.31.01
Acenaphthylene	01.31.01
Acenaphthene	01.31.01
Fluorene	01.31.01
Hexachlorobenzene	01.31.01
Phenanthrene	01.31.01
Anthracene	01.31.01
Di-n-butylphthalate	01.31.01
Fluoranthene	01.31.01
Pyrene	01.31.01
bis(2-Ethylhexyl)phthalate	01.31.01
Chrysene	01.31.01
Benzo(a)anthracene	01.31.01
Benzo(b)fluoranthene	01.31.01
Benzo(k)fluoranthene	01.31.01
Benzo(a)pyrene	01.31.01
Indeno(1,2,3-cd)pyrene	01.31.01
Dibenzo(a,h)anthracene	01.31.01
Benzo(g,h,i)perylene	01.31.01
2-Chlorophenol	01.31.01
Phenol	01.31.01

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10444-23	Dates Analyzed	

PARAMETER	10444-23
2,4-Dimethylphenol	01.31.01
Pentachlorophenol	01.31.01
2-Methylphenol (o-Cresol)	01.31.01
2-Methylnaphthalene	01.31.01
2,4,5-Trichlorophenol	01.31.01
Dibenzofuran	01.31.01
Carbazole	01.31.01
3-Methylphenol/4-Methylphenol (m&p-Cresol)	01.31.01
Tetrachlorophenols	01.31.01
Arsenic (6010)	02.01.01
Chromium (6010)	02.01.01
Copper (6010)	02.01.01

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10444-14	Method Blank	
10444-24	Practical Quantitation Limits	

PARAMETER	10444-14	10444-24
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/l	ND	0.010
2-Chloronaphthalene, mg/l	ND	0.010
Acenaphthylene, mg/l	ND	0.010
Acenaphthene, mg/l	ND	0.010
Fluorene, mg/l	ND	0.010
Hexachlorobenzene, mg/l	ND	0.010
Phenanthrene, mg/l	ND	0.010
Anthracene, mg/l	ND	0.010
Di-n-butylphthalate, mg/l	ND	0.010
Fluoranthene, mg/l	ND	0.010
Pyrene, mg/l	ND	0.010
bis(2-Ethylhexyl)phthalate, mg/l	ND	0.010
Chrysene, mg/l	ND	0.010
Benzo(a)anthracene, mg/l	ND	0.010
Benzo(b)fluoranthene, mg/l	ND	0.010
Benzo(k)fluoranthene, mg/l	ND	0.010
Benzo(a)pyrene, mg/l	ND	0.010
Indeno(1,2,3-cd)pyrene, mg/l	ND	0.010
Dibenzo(a,h)anthracene, mg/l	ND	0.010
Benzo(g,h,i)perylene, mg/l	ND	0.010

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10444-14	Method Blank	
10444-24	Practical Quantitation Limits	

PARAMETER	10444-14	10444-24
2-Chlorophenol, mg/l	ND	0.010
Phenol, mg/l	ND	0.010
2,4-Dimethylphenol, mg/l	ND	0.010
Pentachlorophenol, mg/l	ND	0.050
2-Methylphenol (o-Cresol), mg/l	ND	0.010
2-Methylnaphthalene, mg/l	ND	0.010
2,4,5-Trichlorophenol, mg/l	ND	0.010
Dibenzofuran, mg/l	ND	0.010
Carbazole, mg/l	ND	0.010
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	ND	0.010
Tetrachlorophenols, mg/l	ND	0.010
Dilution factor	1	1
Arsenic (6010), mg/l	ND	0.010
Chromium (6010), mg/l	ND	0.010
Copper (6010), mg/l	ND	0.020

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10444-14	Method Blank	
10444-24	Practical Quantitation Limits	

PARAMETER	10444-14	10444-24
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/l	0.0016J	0.0050
Acetone, mg/l	ND	0.050
Chloroform, mg/l	ND	0.0050
2-Butanone (MEK), mg/l	ND	0.025
Bromodichloromethane, mg/l	ND	0.0050
1,1,2,2-Tetrachloroethane, mg/l	ND	0.0050
1,2-Dichloropropane, mg/l	ND	0.0050
1,1,2-Trichloroethane, mg/l	ND	0.0050
Benzene, mg/l	ND	0.0050
Toluene, mg/l	ND	0.0050
Ethylbenzene, mg/l	ND	0.0050
Xylenes, Total, mg/l	ND	0.010

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10444-32	Method Detection Limit (MDL)	
10444-25	Accuracy (mean % Rec)	

PARAMETER	10444-32	10444-25
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/l	0.00036	86 %
2-Chloronaphthalene, mg/l	0.00039	---
Acenaphthylene, mg/l	0.00033	110 %
Acenaphthene, mg/l	0.00025	100 %
Fluorene, mg/l	0.00038	110 %
Hexachlorobenzene, mg/l	0.00019	---
Phenanthrene, mg/l	0.00033	110 %
Anthracene, mg/l	0.00033	110 %
Di-n-butylphthalate, mg/l	0.00026	---
Fluoranthene, mg/l	0.00033	115 %
Pyrene, mg/l	0.00053	110 %
bis(2-Ethylhexyl)phthalate, mg/l	0.00048	---
Chrysene, mg/l	0.00044	99 %
Benzo(a)anthracene, mg/l	0.00030	105 %
Benzo(b)fluoranthene, mg/l	0.00028	105 %
Benzo(k)fluoranthene, mg/l	0.00072	100 %
Benzo(a)pyrene, mg/l	0.00041	110 %
Indeno(1,2,3-cd)pyrene, mg/l	0.00056	120 %
Dibenzo(a,h)anthracene, mg/l	0.00080	120 %

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10444-32	Method Detection Limit (MDL)	
10444-25	Accuracy (mean % Rec)	

PARAMETER	10444-32	10444-25
Benzo(g,h,i)perylene, mg/l	0.00068	---
2-Chlorophenol, mg/l	0.00024	105 %
Phenol, mg/l	0.00028	100 %
2,4-Dimethylphenol, mg/l	0.00039	120 %
Pentachlorophenol, mg/l	0.0040	96 %
2-Methylphenol (o-Cresol), mg/l	0.00029	105 %
2-Methylnaphthalene, mg/l	0.00033	---
2,4,5-Trichlorophenol, mg/l	0.00074	105 %
Dibenzofuran, mg/l	0.00029	---
Carbazole, mg/l	0.00054	115 %
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	0.00071	100 %
Tetrachlorophenols, mg/l	0.00061	94 %
Arsenic (6010), mg/l	0.0032	100 %
Chromium (6010), mg/l	0.0017	107 %
Copper (6010), mg/l	0.00090	108 %

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10444-32	Method Detection Limit (MDL)	
10444-25	Accuracy (mean % Rec)	

PARAMETER	10444-32	10444-25
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/l	0.00031	---
Acetone, mg/l	0.0099	---
Chloroform, mg/l	0.00090	---
2-Butanone (MEK), mg/l	0.011	---
Bromodichloromethane, mg/l	0.00035	---
1,1,2,2-Tetrachloroethane, mg/l	0.00075	---
1,2-Dichloropropane, mg/l	0.00052	---
1,1,2-Trichloroethane, mg/l	0.00047	---
Benzene, mg/l	0.00027	88 %
Toluene, mg/l	0.00051	97 %
Ethylbenzene, mg/l	0.00083	---
Xylenes, Total, mg/l	0.0019	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10444-26	Precision (%RPD)	
10444-27	Analyst Initials	

PARAMETER	10444-26	10444-27
Acid & Base Neutral Extractables (8270)		
Naphthalene	12 %	Kim Humphreys
Acenaphthylene	0 %	Kim Humphreys
Acenaphthene	0 %	Kim Humphreys
Fluorene	0 %	Kim Humphreys
Phenanthrene	0 %	Kim Humphreys
Anthracene	0 %	Kim Humphreys
Fluoranthene	9 %	Kim Humphreys
Pyrene	0 %	Kim Humphreys
Chrysene	2 %	Kim Humphreys
Benzo(a)anthracene	10 %	Kim Humphreys
Benzo(b)fluoranthene	10 %	Kim Humphreys
Benzo(k)fluoranthene	1 %	Kim Humphreys
Benzo(a)pyrene	0 %	Kim Humphreys
Indeno(1,2,3-cd)pyrene	0 %	Kim Humphreys
Dibenzo(a,h)anthracene	0 %	Kim Humphreys
2-Chlorophenol	10 %	Kim Humphreys
Phenol	1 %	Kim Humphreys
2,4-Dimethylphenol	0 %	Kim Humphreys
Pentachlorophenol	8 %	Kim Humphreys
2-Methylphenol (o-Cresol)	10 %	Kim Humphreys

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10444-26	Precision (%RPD)	
10444-27	Analyst Initials	

PARAMETER	10444-26	10444-27
2,4,5-Trichlorophenol	10 %	Kim Humphreys
Carbazole	9 %	Kim Humphreys
3-Methylphenol/4-Methylphenol (m&p-Cresol)	1 %	Kim Humphreys
Tetrachlorophenols	6 %	Kim Humphreys
2-Chloronaphthalene	---	Kim Humphreys
Hexachlorobenzene	---	Kim Humphreys
Di-n-butylphthalate	---	Kim Humphreys
bis(2-Ethylhexyl)phthalate	---	Kim Humphreys
Benzo(g,h,i)perylene	---	Kim Humphreys
2-Methylnaphthalene	---	Kim Humphreys
Dibenzofuran	---	Kim Humphreys
Arsenic (6010)	4.6 %	Susan Norwood
Chromium (6010)	5.3 %	Susan Norwood
Copper (6010)	4.9 %	Susan Norwood

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Sampled By: Client
Code: 12131029

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10444-26	Precision (%RPD)	
10444-27	Analyst Initials	

PARAMETER	10444-26	10444-27
Volatiles by GC/MS (8260)		
Benzene	0 %	Paul Grimm
Toluene	2 %	Paul Grimm
Methylene chloride (Dichloromethane)	---	Paul Grimm
Acetone	---	Paul Grimm
Chloroform	---	Paul Grimm
2-Butanone (MEK)	---	Paul Grimm
Bromodichloromethane	---	Paul Grimm
1,1,2,2-Tetrachloroethane	---	Paul Grimm
1,2-Dichloropropane	---	Paul Grimm
1,1,2-Trichloroethane	---	Paul Grimm
Ethylbenzene	---	Paul Grimm
Xylenes, Total	---	Paul Grimm

SEVERN TRENT SERVICES

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STL Savannah

LOG NO: S1-10444
Received: 24 JAN 01
Reported: 08 FEB 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON/SWP
Sampled By: Client
Code: 12131029

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10444-28	Epa Method Numbers	
10444-29	Dates Extrcted	

PARAMETER	10444-28	10444-29
Acid & Base Neutral Extractables (8270)		
Naphthalene	8270C	01.25.01
2-Chloronaphthalene	8270C	01.25.01
Acenaphthylene	8270C	01.25.01
Acenaphthene	8270C	01.25.01
Fluorene	8270C	01.25.01
Hexachlorobenzene	8270C	01.25.01
Phenanthrene	8270C	01.25.01
Anthracene	8270C	01.25.01
Di-n-butylphthalate	8270C	01.25.01
Fluoranthene	8270C	01.25.01
Pyrene	8270C	01.25.01
bis(2-Ethylhexyl)phthalate	8270C	01.25.01
Chrysene	8270C	01.25.01
Benzo(a)anthracene	8270C	01.25.01
Benzo(b)fluoranthene	8270C	01.25.01
Benzo(k)fluoranthene	8270C	01.25.01
Benzo(a)pyrene	8270C	01.25.01
Indeno(1,2,3-cd)pyrene	8270C	01.25.01
Dibenzo(a,h)anthracene	8270C	01.25.01
Benzo(g,h,i)perylene	8270C	01.25.01

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STL Savannah

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Sampled By: Client
Code: 12131029

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10444-28	Epa Method Numbers	
10444-29	Dates Extrcted	

PARAMETER	10444-28	10444-29
2-Chlorophenol	8270C	01.25.01
Phenol	8270C	01.25.01
2,4-Dimethylphenol	8270C	01.25.01
Pentachlorophenol	8270C	01.25.01
2-Methylphenol (o-Cresol)	8270C	01.25.01
2-Methylnaphthalene	8270C	01.25.01
2,4,5-Trichlorophenol	8270C	01.25.01
Dibenzofuran	8270C	01.25.01
Carbazole	8270C	01.25.01
3-Methylphenol/4-Methylphenol (m&p-Cresol)	8270C	01.25.01
Tetrachlorophenols	8270C	01.25.01
Arsenic (6010)	6010	---
Chromium (6010)	6010	---
Copper (6010)	6010	---

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Code: 12131029

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10444-28	Epa Method Numbers	
10444-29	Dates Extrcted	

PARAMETER	10444-28	10444-29
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane)	8260	---
Acetone	8260	---
Chloroform	8260	---
2-Butanone (MEK)	8260	---
Bromodichloromethane	8260	---
1,1,2,2-Tetrachloroethane	8260	---
1,2-Dichloropropane	8260	---
1,1,2-Trichloroethane	8260	---
Benzene	8260	---
Toluene	8260	---
Ethylbenzene	8260	---
Xylenes, Total	8260	---

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Sampled By: Client
Code: 12131029

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10444-30	Dates Analyzed	

PARAMETER	10444-30
Acid & Base Neutral Extractables (8270)	
Naphthalene	01.30.01
2-Chloronaphthalene	01.30.01
Acenaphthylene	01.30.01
Acenaphthene	01.30.01
Fluorene	01.30.01
Hexachlorobenzene	01.30.01
Phenanthrene	01.30.01
Anthracene	01.30.01
Di-n-butylphthalate	01.30.01
Fluoranthene	01.30.01
Pyrene	01.30.01
bis(2-Ethylhexyl)phthalate	01.30.01
Chrysene	01.30.01
Benzo(a)anthracene	01.30.01
Benzo(b)fluoranthene	01.30.01
Benzo(k)fluoranthene	01.30.01
Benzo(a)pyrene	01.30.01
Indeno(1,2,3-cd)pyrene	01.30.01
Dibenzo(a,h)anthracene	01.30.01
Benzo(g,h,i)perylene	01.30.01
2-Chlorophenol	01.30.01
Phenol	01.30.01

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Ms. Sandra Watson
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Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON/SWP
Sampled By: Client
Code: 12131029

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10444-30	Dates Analyzed	

PARAMETER	10444-30
2,4-Dimethylphenol	01.30.01
Pentachlorophenol	01.30.01
2-Methylphenol (o-Cresol)	01.30.01
2-Methylnaphthalene	01.30.01
2,4,5-Trichlorophenol	01.30.01
Dibenzofuran	01.30.01
Carbazole	01.30.01
3-Methylphenol/4-Methylphenol (m&p-Cresol)	01.30.01
Tetrachlorophenols	01.30.01
Arsenic (6010)	01.29.01
Chromium (6010)	01.29.01
Copper (6010)	01.29.01

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CC: Greg Kuntz-Schnabel

Project: WILMINGTON/SWP
Sampled By: Client
Code: 12131029

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10444-30	Dates Analyzed	

PARAMETER	10444-30
Volatiles by GC/MS (8260)	
Methylene chloride (Dichloromethane)	01.25.01
Acetone	01.25.01
Chloroform	01.25.01
2-Butanone (MEK)	01.25.01
Bromodichloromethane	01.25.01
1,1,2,2-Tetrachloroethane	01.25.01
1,2-Dichloropropane	01.25.01
1,1,2-Trichloroethane	01.25.01
Benzene	01.25.01
Toluene	01.25.01
Ethylbenzene	01.25.01
Xylenes, Total	01.25.01

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL project Manager who signed this test report.

Lab Manager - Henry Beauchamp
Methods: EPA SW-846 ND = Not Detected

Gloria D. Fulwood

Gloria D. Fulwood, Project Manager

Final Page Of Report

Serial Number 026102

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Savannah Laboratories
a division of Severn Trent Laboratories, Inc.

5102 LaRoche Avenue, Savannah, GA 31404 — Phone: (912) 354-7858 — Fax: (912) 352-0165
2846 Industrial Plaza Drive, Tallahassee, FL 32301 — Phone: (850) 878-3994 — Fax: (850) 878-9504
900 Lakeside Drive, Mobile, AL 36693 — Phone: (334) 666-6633 — Fax: (334) 666-6696
6712 Benjamin Rd., Suite 100, Tampa, FL 33634 — Phone: (813) 885-7427 — Fax: (813) 885-7049

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Southwellington	979007.00-27	NC

STL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
E. Moore		

CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Southern Wood Piedmont	~~803~~ 864-599-1070	864-599-1037

CLIENT NAME	CLIENT EMAIL
Bill Arrants	william.arrants@royonier.com

CLIENT ADDRESS: P.O Box 54017 Spartanburg, SC 29304

COMPANY CONTRACTING THIS WORK (if applicable): Schnabel Engineering - Greg Kurtz

PAGE 1 OF 1

STANDARD REPORT DELIVERY ☒ — DATE DUE ____

EXPEDITED REPORT DELIVERY (SURCHARGE) ☐ — DATE DUE ____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: ✓

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ETC)	VOC-Soil (Encore)	VOC-Soil (Bottle)	TOC/Ammonia-Soil	SVOC-Soil	As/Cr/Cu-Soil			SVOC-Liquid	As/Cr/Cu-Liquid	VOC-Soil-Liquid	REMARKS
11/8/01	9:30	SD-30 - Dup SWP Log# ----	G		X			3	1	1	1	1						*No SWP Log
	10:00	SD-29 17394						3	1	1	1	1						number for
	10:25	SD-8 17395								1								SD-30-Dup
	10:45	SS-12 17396								1								because it is a
	11:10	SS-13 17397								1								duplicate of
	12:15	SS-1 17398								1								SD-30 collected
	12:35	SD-20 17399								1								on 11/8/01 at 16:50
	13:05	SD-28 178400						3	1	1	1	1						SWP Log# 17345
	13:30	SD-27 17401						3	1	1	1	1						
	14:20	SD-26 17402						3	1	1	1	1						
	16:30	Equip 12301 17403	G	X											2	1	2	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[illegible]	11/8/01		William B. Kurtz	11/23/01	17:40			

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
[illegible]								

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	STL-SL LOG NO.	LABORATORY REMARKS:
			YES / NO			

CLIENTS FIELD COPY

FedEx USA Airbill FedEx Tracking Number 824136805121

1 From *Please print and press hard.*

Date 1/24/01 Sender's FedEx Account Number 2181-1829-1

Sender's Name Greg Kurtz Phone (803) 796-6240

Company SCHNABEL ENGINEERING ASSOC

Address 104 CORPORATE BLVD STE 420 Dept./Floor/Suite/Room

City WEST COLUMBIA State SC ZIP 29169

2 Your Internal Billing Reference First 24 characters will appear on invoice. 0011041

3 To

Recipient's Name Gloria Fulwood Phone 912 1354-7858

Company Severn Trent Services

Address 5102 LaRoche Avenue

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

City Savannah State GA ZIP 31404

Peel and Stick FedEx USA Airbill

See back for application instructions.

Questions? Call 1·800·Go·FedEx* (800-463-3339)

Visit our Web site at www.fedex.com

By using this Airbill you agree to the service conditions on the back of this Airbill and in our current Service Guide, including terms that limit our liability.

0156288956

Form 0215 **Sender's Copy**

4a Express Package Service *Packages up to 150 lbs.* Delivery commitment may be later in some areas.

- [x] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

* FedEx Envelope/Letter Rate not available. Minimum charge: One-pound rate

4b Express Freight Service *Packages over 150 lbs.* Delivery commitment may be later in some areas.

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation: _____

5 Packaging * Declared value limit $500

- [ ] FedEx Envelope/Letter*
- [ ] FedEx Pak*
- [x] Other Pkg. — Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling Include FedEx address in Section 3.

- [ ] SATURDAY Delivery — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] SUNDAY Delivery — Available for FedEx Priority Overnight to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available with FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [ ] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous Goods cannot be shipped in FedEx packaging.

- [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [x] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

FedEx Acct. No. / Credit Card No. Exp. Date

Total Packages	Total Weight	Total Declared Value†
1	47	$ .00

†Our liability is limited to $100 unless you declare a higher value. See back for details.

FedEx Use Only

8 Release Signature *Sign to authorize delivery without obtaining signature.*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

402

Rev Date 3/00 • Part #156812G • ©1994-2000 FedEx • PRINTED IN U.S.A. GBFE 9/00

PULL AND RETAIN THIS COPY BEFORE AFFIXING TO THE PACKAGE.

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SEVERN TRENT SERVICES

STL Savannah

LOG NO: S1-10473
Received: 25 JAN 01
Reported: 13 FEB 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 142810214

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10473-1	SD-22 (#17406)	01-24-01/09:25
10473-2	SD-21 (#17407)	01-24-01/10:00

PARAMETER	10473-1	10473-2
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/kg dw	ND	ND
Acetone, mg/kg dw	ND	ND
Chloroform, mg/kg dw	ND	ND
2-Butanone (MEK), mg/kg dw	ND	ND
Bromodichloromethane, mg/kg dw	ND	ND
1,1,2,2-Tetrachloroethane, mg/kg dw	ND	ND
1,2-Dichloropropane, mg/kg dw	ND	ND
1,1,2-Trichloroethane, mg/kg dw	ND	ND
Benzene, mg/kg dw	ND	ND
Toluene, mg/kg dw	ND	ND
Ethylbenzene, mg/kg dw	ND	ND
Xylenes, Total, mg/kg dw	ND	ND
Total Organic Carbon (9060), mg/kg dw	2500	2400
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	0.78	ND

SEVERN TRENT SERVICES
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Code: 142810214

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10473-1	SD-22 (#17406)	01-24-01/09:25
10473-2	SD-21 (#17407)	01-24-01/10:00

PARAMETER	10473-1	10473-2
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/kg dw	0.30J	ND
2-Chloronaphthalene, mg/kg dw	ND	ND
Acenaphthylene, mg/kg dw	ND	ND
Acenaphthene, mg/kg dw	1.1	ND
Fluorene, mg/kg dw	0.74	ND
Hexachlorobenzene, mg/kg dw	ND	ND
Phenanthrene, mg/kg dw	9.4	ND
Anthracene, mg/kg dw	1.8	ND
Di-n-butylphthalate, mg/kg dw	0.076J	ND
Fluoranthene, mg/kg dw	15	0.074J
Pyrene, mg/kg dw	12	ND
bis(2-Ethylhexyl)phthalate, mg/kg dw	0.32J	ND
Chrysene, mg/kg dw	7.5	0.062J
Benzo(a)anthracene, mg/kg dw	6.7	0.050J
Benzo(b)fluoranthene, mg/kg dw	6.1	0.059J
Benzo(k)fluoranthene, mg/kg dw	5.3	0.053J
Benzo(a)pyrene, mg/kg dw	5.5	ND
Indeno(1,2,3-cd)pyrene, mg/kg dw	4.0	ND
Dibenzo(a,h)anthracene, mg/kg dw	1.8	ND

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Project: WILMINGTON
Sampled By: Client
Code: 142810214

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10473-1	SD-22 (#17406)	01-24-01/09:25
10473-2	SD-21 (#17407)	01-24-01/10:00

PARAMETER	10473-1	10473-2
Benzo(g,h,i)perylene, mg/kg dw	3.4	ND
2-Chlorophenol, mg/kg dw	ND	ND
Phenol, mg/kg dw	ND	ND
2,4-Dimethylphenol, mg/kg dw	ND	ND
Pentachlorophenol, mg/kg dw	ND	ND
2-Methylphenol (o-Cresol), mg/kg dw	ND	ND
2-Methylnaphthalene, mg/kg dw	0.21J	ND
2,4,5-Trichlorophenol, mg/kg dw	ND	ND
Dibenzofuran, mg/kg dw	0.57	ND
Carbazole, mg/kg dw	1.7	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/kg dw	ND	ND
Tetrachlorophenols, mg/kg dw	ND	ND
Dilution factor	~~1~~ 83.516	~~1~~ 0.298
Arsenic (6010), mg/kg dw	ND	ND
Chromium (6010), mg/kg dw	8.7	1.9
Copper (6010), mg/kg dw	6.4	9.6
Percent Solids	74	73

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Project: WILMINGTON
Sampled By: Client
Code: 142810214

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10473-3	SS-25 (#17413)	01-24-01/12:30

PARAMETER	10473-3
Volatiles by GC/MS (8260)	
Methylene chloride (Dichloromethane), mg/kg dw	ND
Acetone, mg/kg dw	ND
Chloroform, mg/kg dw	ND
2-Butanone (MEK), mg/kg dw	ND
Bromodichloromethane, mg/kg dw	ND
1,1,2,2-Tetrachloroethane, mg/kg dw	ND
1,2-Dichloropropane, mg/kg dw	ND
1,1,2-Trichloroethane, mg/kg dw	ND
Benzene, mg/kg dw	ND
Toluene, mg/kg dw	ND
Ethylbenzene, mg/kg dw	ND
Xylenes, Total, mg/kg dw	ND
Total Organic Carbon (9060), mg/kg dw	16000
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	1.3

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CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 142810214

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10473-3	S8-25 (#17413)	01-24-01/12:30

PARAMETER	10473-3
Acid & Base Neutral Extractables (8270)	
Naphthalene, mg/kg dw	ND
2-Chloronaphthalene, mg/kg dw	ND
Acenaphthylene, mg/kg dw	ND
Acenaphthene, mg/kg dw	6.8
Fluorene, mg/kg dw	7.4
Hexachlorobenzene, mg/kg dw	ND
Phenanthrene, mg/kg dw	14
Anthracene, mg/kg dw	2.9J
Di-n-butylphthalate, mg/kg dw	ND
Fluoranthene, mg/kg dw	38
Pyrene, mg/kg dw	23
bis(2-Ethylhexyl)phthalate, mg/kg dw	ND
Chrysene, mg/kg dw	7.4
Benzo(a)anthracene, mg/kg dw	6.2
Benzo(b)fluoranthene, mg/kg dw	3.4J
Benzo(k)fluoranthene, mg/kg dw	3.0J
Benzo(a)pyrene, mg/kg dw	2.3J
Indeno(1,2,3-cd)pyrene, mg/kg dw	1.3J
Dibenzo(a,h)anthracene, mg/kg dw	ND
Benzo(g,h,i)perylene, mg/kg dw	1.0J
2-Chlorophenol, mg/kg dw	ND
Phenol, mg/kg dw	ND

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LOG NO: S1-10473
Received: 25 JAN 01
Reported: 13 FEB 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 142810214

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10473-3	SS-25 (#17413)	01-24-01/12:30

PARAMETER	10473-3
2,4-Dimethylphenol, mg/kg dw	ND
Pentachlorophenol, mg/kg dw	ND
2-Methylphenol (o-Cresol), mg/kg dw	ND
2-Methylnaphthalene, mg/kg dw	ND
2,4,5-Trichlorophenol, mg/kg dw	ND
Dibenzofuran, mg/kg dw	2.8J
Carbazole, mg/kg dw	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/kg dw	ND
Tetrachlorophenols, mg/kg dw	ND
Dilution factor	~~10~~ 119.5
Arsenic (6010), mg/kg dw	6.0
Chromium (6010), mg/kg dw	12
Copper (6010), mg/kg dw	19
Percent Solids	66

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10473-4	SS-7 (#17404)	01-24-01/08:15
10473-5	SS-2 (#17405)	01-24-01/08:45

PARAMETER	10473-4	10473-5
Total Organic Carbon (9060), mg/kg dw	23000	29000
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	16	3.2
Percent Solids	53	51

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10473-6	SD-03 (#17408	01-24-01/10:20
10473-7	SS-3 (#17409)	01-24-01/10:45

PARAMETER	10473-6	10473-7
Total Organic Carbon (9060), mg/kg dw	2500	15000
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	0.61	15
Percent Solids	72	50

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10473-8	SS-4 (#17410)	01-24-01/11:10
10473-9	SS-6 (#17411)	01-24-01/11:30

PARAMETER	10473-8	10473-9
Total Organic Carbon (9060), mg/kg dw	69000	75000
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	53	53
Percent Solids	31	20

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10473-10	SS-5 (#17412)	01-24-01/11:55
10473-11	SS-7-DUP	01-24-01/08:15

PARAMETER	10473-10	10473-11
Total Organic Carbon (9060), mg/kg dw	6000	19000
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	8.6	16
Percent Solids	70	54

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10473-12	Equip12401	01-24-01/15:00

PARAMETER	10473-12
Volatiles by GC/MS (8260)	
Methylene chloride (Dichloromethane), mg/l	0.0019J
Acetone, mg/l	ND
Chloroform, mg/l	ND
2-Butanone (MEK), mg/l	ND
Bromodichloromethane, mg/l	ND
1,1,2,2-Tetrachloroethane, mg/l	ND
1,2-Dichloropropane, mg/l	ND
1,1,2-Trichloroethane, mg/l	ND
Benzene, mg/l	ND
Toluene, mg/l	ND
Ethylbenzene, mg/l	ND
Xylenes, Total, mg/l	ND

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10473-12	Equip12401	01-24-01/15:00

PARAMETER	10473-12
Acid & Base Neutral Extractables (8270)	
Naphthalene, mg/l	ND
2-Chloronaphthalene, mg/l	ND
Acenaphthylene, mg/l	ND
Acenaphthene, mg/l	ND
Fluorene, mg/l	ND
Hexachlorobenzene, mg/l	ND
Phenanthrene, mg/l	ND
Anthracene, mg/l	ND
Di-n-butylphthalate, mg/l	ND
Fluoranthene, mg/l	ND
Pyrene, mg/l	ND
bis(2-Ethylhexyl)phthalate, mg/l	ND
Chrysene, mg/l	ND
Benzo(a)anthracene, mg/l	ND
Benzo(b)fluoranthene, mg/l	ND
Benzo(k)fluoranthene, mg/l	ND
Benzo(a)pyrene, mg/l	ND
Indeno(1,2,3-cd)pyrene, mg/l	ND
Dibenzo(a,h)anthracene, mg/l	ND
Benzo(g,h,i)perylene, mg/l	ND
2-Chlorophenol, mg/l	ND
Phenol, mg/l	ND

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10473-12	Equip12401	01-24-01/15:00

PARAMETER	10473-12
2,4-Dimethylphenol, mg/l	ND
Pentachlorophenol, mg/l	ND
2-Methylphenol (o-Cresol), mg/l	ND
2-Methylnaphthalene, mg/l	ND
2,4,5-Trichlorophenol, mg/l	ND
Dibenzofuran, mg/l	ND
Carbazole, mg/l	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	ND
Tetrachlorophenols, mg/l	ND
Dilution factor	1
Arsenic (6010), mg/l	ND
Chromium (6010), mg/l	ND
Copper (6010), mg/l	0.0090B

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10473-13	Equip11101	01-24-01

PARAMETER	10473-13
Volatiles by GC/MS (8260)	
Methylene chloride (Dichloromethane), mg/l	0.0021J
Acetone, mg/l	ND
Chloroform, mg/l	ND
2-Butanone (MEK), mg/l	ND
Bromodichloromethane, mg/l	ND
1,1,2,2-Tetrachloroethane, mg/l	ND
1,2-Dichloropropane, mg/l	ND
1,1,2-Trichloroethane, mg/l	ND
Benzene, mg/l	ND
Toluene, mg/l	ND
Ethylbenzene, mg/l	ND
Xylenes, Total, mg/l	ND

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10473-14	Method Blank	
10473-15	Practical Quantitation Limits	

PARAMETER	10473-14	10473-15
Total Organic Carbon (9060), mg/kg dw	ND	500
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	ND	0.50
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/kg dw	ND	0.0050
Acetone, mg/kg dw	ND	0.050
Chloroform, mg/kg dw	ND	0.0050
2-Butanone (MEK), mg/kg dw	ND	0.025
Bromodichloromethane, mg/kg dw	ND	0.0050
1,1,2,2-Tetrachloroethane, mg/kg dw	ND	0.0050
1,2-Dichloropropane, mg/kg dw	ND	0.0050
1,1,2-Trichloroethane, mg/kg dw	ND	0.0050
Benzene, mg/kg dw	ND	0.0050
Toluene, mg/kg dw	ND	0.0050
Ethylbenzene, mg/kg dw	ND	0.0050
Xylenes, Total, mg/kg dw	ND	0.010

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10473-14	Method Blank	
10473-15	Practical Quantitation Limits	

PARAMETER	10473-14	10473-15
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/kg dw	ND	0.33
2-Chloronaphthalene, mg/kg dw	ND	0.33
Acenaphthylene, mg/kg dw	ND	0.33
Acenaphthene, mg/kg dw	ND	0.33
Fluorene, mg/kg dw	ND	0.33
Hexachlorobenzene, mg/kg dw	ND	0.33
Phenanthrene, mg/kg dw	ND	0.33
Anthracene, mg/kg dw	ND	0.33
Di-n-butylphthalate, mg/kg dw	ND	0.33
Fluoranthene, mg/kg dw	ND	0.33
Pyrene, mg/kg dw	ND	0.33
bis(2-Ethylhexyl)phthalate, mg/kg dw	ND	0.33
Chrysene, mg/kg dw	ND	0.33
Benzo(a)anthracene, mg/kg dw	ND	0.33
Benzo(b)fluoranthene, mg/kg dw	ND	0.33
Benzo(k)fluoranthene, mg/kg dw	ND	0.33
Benzo(a)pyrene, mg/kg dw	ND	0.33
Indeno(1,2,3-cd)pyrene, mg/kg dw	ND	0.33
Dibenzo(a,h)anthracene, mg/kg dw	ND	0.33
Benzo(g,h,i)perylene, mg/kg dw	ND	0.33

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10473-14	Method Blank	
10473-15	Practical Quantitation Limits	

PARAMETER	10473-14	10473-15
2-Chlorophenol, mg/kg dw	ND	0.33
Phenol, mg/kg dw	ND	0.33
2,4-Dimethylphenol, mg/kg dw	ND	0.33
Pentachlorophenol, mg/kg dw	ND	1.70
2-Methylphenol (o-Cresol), mg/kg dw	ND	0.33
2-Methylnaphthalene, mg/kg dw	ND	0.33
2,4,5-Trichlorophenol, mg/kg dw	ND	0.33
Dibenzofuran, mg/kg dw	ND	0.33
Carbazole, mg/kg dw	ND	0.33
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/kg dw	ND	0.33
Tetrachlorophenols, mg/kg dw	ND	0.33
Dilution factor	1	1
Arsenic (6010), mg/kg dw	ND	1.0
Chromium (6010), mg/kg dw	ND	1.0
Copper (6010), mg/kg dw	ND	2.0

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10473-30	Method Detection Limit (MDL)	
10473-16	Accuracy (mean % recovery)	

PARAMETER	10473-30	10473-16
Total Organic Carbon (9060), mg/kg dw	150	85 %
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	0.075	94 %
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/kg dw	0.0014	---
Acetone, mg/kg dw	0.0036	---
Chloroform, mg/kg dw	0.0017	---
2-Butanone (MEK), mg/kg dw	0.0033	---
Bromodichloromethane, mg/kg dw	0.00088	---
1,1,2,2-Tetrachloroethane, mg/kg dw	0.0010	---
1,2-Dichloropropane, mg/kg dw	0.0014	---
1,1,2-Trichloroethane, mg/kg dw	0.00096	---
Benzene, mg/kg dw	0.0017	89 %
Toluene, mg/kg dw	0.0018	88 %
Ethylbenzene, mg/kg dw	0.0020	---
Xylenes, Total, mg/kg dw	0.0016	---

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10473-30	Method Detection Limit (MDL)	
10473-16	Accuracy (mean % recovery)	

PARAMETER	10473-30	10473-16
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/kg dw	0.025	90 %
2-Chloronaphthalene, mg/kg dw	0.024	---
Acenaphthylene, mg/kg dw	0.021	98 %
Acenaphthene, mg/kg dw	0.029	96 %
Fluorene, mg/kg dw	0.031	98 %
Hexachlorobenzene, mg/kg dw	0.045	---
Phenanthrene, mg/kg dw	0.017	106 %
Anthracene, mg/kg dw	0.021	108 %
Di-n-butylphthalate, mg/kg dw	0.028	---
Fluoranthene, mg/kg dw	0.031	116 %
Pyrene, mg/kg dw	0.063	98 %
bis(2-Ethylhexyl)phthalate, mg/kg dw	0.045	---
Chrysene, mg/kg dw	0.021	104 %
Benzo(a)anthracene, mg/kg dw	0.020	106 %
Benzo(b)fluoranthene, mg/kg dw	0.023	102 %
Benzo(k)fluoranthene, mg/kg dw	0.026	94 %
Benzo(a)pyrene, mg/kg dw	0.029	103 %
Indeno(1,2,3-cd)pyrene, mg/kg dw	0.067	130 %
Dibenzo(a,h)anthracene, mg/kg dw	0.052	108 %

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10473-30	Method Detection Limit (MDL)	
10473-16	Accuracy (mean % recovery)	

PARAMETER	10473-30	10473-16
Benzo(g,h,i)perylene, mg/kg dw	0.026	---
2-Chlorophenol, mg/kg dw	0.032	97 %
Phenol, mg/kg dw	0.042	92 %
2,4-Dimethylphenol, mg/kg dw	0.028	110 %
Pentachlorophenol, mg/kg dw	0.18	82 %
2-Methylphenol (o-Cresol), mg/kg dw	0.032	103 %
2-Methylnaphthalene, mg/kg dw	0.032	---
2,4,5-Trichlorophenol, mg/kg dw	0.029	98 %
Dibenzofuran, mg/kg dw	0.030	---
Carbazole, mg/kg dw	0.022	106 %
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/kg dw	0.042	96 %
Tetrachlorophenols, mg/kg dw	0.061	86 %
Arsenic (6010), mg/kg dw	0.45	98 %
Chromium (6010), mg/kg dw	0.17	105 %
Copper (6010), mg/kg dw	0.72	103 %

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10473-17	Precision (% RPD)	
10473-18	Analyst Initials	

PARAMETER	10473-17	10473-18
Total Organic Carbon (9060)	0 %	Rob Davis
Ammonia (as N) (EPA/CE-81-1(3-140))	1.2 %	Rob Davis
Volatiles by GC/MS (8260)		
Benzene	2 %	Paul Grimm
Toluene	9 %	Paul Grimm
Methylene chloride (Dichloromethane)	---	Paul Grimm
Acetone	---	Paul Grimm
Chloroform	---	Paul Grimm
2-Butanone (MEK)	---	Paul Grimm
Bromodichloromethane	---	Paul Grimm
1,1,2,2-Tetrachloroethane	---	Paul Grimm
1,2-Dichloropropane	---	Paul Grimm
1,1,2-Trichloroethane	---	Paul Grimm
Ethylbenzene	---	Paul Grimm
Xylenes, Total	---	Paul Grimm

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10473-17	Precision (% RPD)	
10473-18	Analyst Initials	

PARAMETER	10473-17	10473-18
Acid & Base Neutral Extractables (8270)		
Naphthalene	17 %	Kim Humphreys
Acenaphthylene	15 %	Kim Humphreys
Acenaphthene	16 %	Kim Humphreys
Fluorene	15 %	Kim Humphreys
Phenanthrene	17 %	Kim Humphreys
Anthracene	14 %	Kim Humphreys
Fluoranthene	13 %	Kim Humphreys
Pyrene	15 %	Kim Humphreys
Chrysene	9 %	Kim Humphreys
Benzo(a)anthracene	11 %	Kim Humphreys
Benzo(b)fluoranthene	15 %	Kim Humphreys
Benzo(k)fluoranthene	13 %	Kim Humphreys
Benzo(a)pyrene	12 %	Kim Humphreys
Indeno(1,2,3-cd)pyrene	23 %	Kim Humphreys
Dibenzo(a,h)anthracene	20 %	Kim Humphreys
2-Chlorophenol	19 %	Kim Humphreys
Phenol	23 %	Kim Humphreys
2,4-Dimethylphenol	14 %	Kim Humphreys
Pentachlorophenol	22 %	Kim Humphreys
2-Methylphenol (o-Cresol)	24 %	Kim Humphreys

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10473-17	Precision (% RPD)	
10473-18	Analyst Initials	

PARAMETER	10473-17	10473-18
2,4,5-Trichlorophenol	9 %	Kim Humphreys
Carbazole	17 %	Kim Humphreys
3-Methylphenol/4-Methylphenol (m&p-Cresol)	22 %	Kim Humphreys
Tetrachlorophenols	10 %	Kim Humphreys
2-Chloronaphthalene	---	Kim Humphreys
Hexachlorobenzene	---	Kim Humphreys
Di-n-butylphthalate	---	Kim Humphreys
bis(2-Ethylhexyl)phthalate	---	Kim Humphreys
Benzo(g,h,i)perylene	---	Kim Humphreys
2-Methylnaphthalene	---	Kim Humphreys
Dibenzofuran	---	Kim Humphreys
Arsenic (6010)	1.6 %	Susan Norwood
Chromium (6010)	1.6 %	Susan Norwood
Copper (6010)	1.9 %	Susan Norwood

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LOG NO: S1-10473
Received: 25 JAN 01
Reported: 13 FEB 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 144310214

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10473-19	EPA Method Numbers	
10473-20	Dates Extracted	

PARAMETER	10473-19	10473-20
Total Organic Carbon (9060)	9060	02.12.01
Ammonia (as N) (EPA/CE-81-1(3-140))	350.1	01.26.01
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane)	8260	---
Acetone	8260	---
Chloroform	8260	---
2-Butanone (MEK)	8260	---
Bromodichloromethane	8260	---
1,1,2,2-Tetrachloroethane	8260	---
1,2-Dichloropropane	8260	---
1,1,2-Trichloroethane	8260	---
Benzene	8260	---
Toluene	8260	---
Ethylbenzene	8260	---
Xylenes, Total	8260	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10473-19	EPA Method Numbers	
10473-20	Dates Extracted	

PARAMETER	10473-19	10473-20
Acid & Base Neutral Extractables (8270)		
Naphthalene	8270C	01.30.01
2-Chloronaphthalene	8270C	01.30.01
Acenaphthylene	8270C	01.30.01
Acenaphthene	8270C	01.30.01
Fluorene	8270C	01.30.01
Hexachlorobenzene	8270C	01.30.01
Phenanthrene	8270C	01.30.01
Anthracene	8270C	01.30.01
Di-n-butylphthalate	8270C	01.30.01
Fluoranthene	8270C	01.30.01
Pyrene	8270C	01.30.01
bis(2-Ethylhexyl)phthalate	8270C	01.30.01
Chrysene	8270C	01.30.01
Benzo(a)anthracene	8270C	01.30.01
Benzo(b)fluoranthene	8270C	01.30.01
Benzo(k)fluoranthene	8270C	01.30.01
Benzo(a)pyrene	8270C	01.30.01
Indeno(1,2,3-cd)pyrene	8270C	01.30.01
Dibenzo(a,h)anthracene	8270C	01.30.01
Benzo(g,h,i)perylene	8270C	01.30.01

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10473-19	EPA Method Numbers	
10473-20	Dates Extracted	

PARAMETER	10473-19	10473-20
2-Chlorophenol	8270C	01.30.01
Phenol	8270C	01.30.01
2,4-Dimethylphenol	8270C	01.30.01
Pentachlorophenol	8270C	01.30.01
2-Methylphenol (o-Cresol)	8270C	01.30.01
2-Methylnaphthalene	8270C	01.30.01
2,4,5-Trichlorophenol	8270C	01.30.01
Dibenzofuran	8270C	01.30.01
Carbazole	8270C	01.30.01
3-Methylphenol/4-Methylphenol (m&p-Cresol)	8270C	01.30.01
Tetrachlorophenols	8270C	01.30.01
Arsenic (6010)	6010	---
Chromium (6010)	6010	---
Copper (6010)	6010	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10473-21	Dates Analyzed	

PARAMETER	10473-21
Total Organic Carbon (9060)	02.13.01
Ammonia (as N) (EPA/CE-81-1(3-140))	01.29.01
Volatiles by GC/MS (8260)	
Methylene chloride (Dichloromethane)	01.27.01
Acetone	01.27.01
Chloroform	01.27.01
2-Butanone (MEK)	01.27.01
Bromodichloromethane	01.27.01
1,1,2,2-Tetrachloroethane	01.27.01
1,2-Dichloropropane	01.27.01
1,1,2-Trichloroethane	01.27.01
Benzene	01.27.01
Toluene	01.27.01
Ethylbenzene	01.27.01
Xylenes, Total	01.27.01

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10473-21	Dates Analyzed	

PARAMETER	10473-21
Acid & Base Neutral Extractables (8270)	
Naphthalene	02.02.01
2-Chloronaphthalene	02.02.01
Acenaphthylene	02.02.01
Acenaphthene	02.02.01
Fluorene	02.02.01
Hexachlorobenzene	02.02.01
Phenanthrene	02.02.01
Anthracene	02.02.01
Di-n-butylphthalate	02.02.01
Fluoranthene	02.02.01
Pyrene	02.02.01
bis(2-Ethylhexyl)phthalate	02.02.01
Chrysene	02.02.01
Benzo(a)anthracene	02.02.01
Benzo(b)fluoranthene	02.02.01
Benzo(k)fluoranthene	02.02.01
Benzo(a)pyrene	02.02.01
Indeno(1,2,3-cd)pyrene	02.02.01
Dibenzo(a,h)anthracene	02.02.01
Benzo(g,h,i)perylene	02.02.01
2-Chlorophenol	02.02.01
Phenol	02.02.01

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10473-21	Dates Analyzed	

PARAMETER	10473-21
2,4-Dimethylphenol	02.02.01
Pentachlorophenol	02.02.01
2-Methylphenol (o-Cresol)	02.02.01
2-Methylnaphthalene	02.02.01
2,4,5-Trichlorophenol	02.02.01
Dibenzofuran	02.02.01
Carbazole	02.02.01
3-Methylphenol/4-Methylphenol (m&p-Cresol)	02.02.01
Tetrachlorophenols	02.02.01
Arsenic (6010)	01.31.01
Chromium (6010)	01.31.01
Copper (6010)	01.31.01

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10473-22	Method Blank	
10473-23	Practical Quantitation Limits	

PARAMETER	10473-22	10473-23
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/l	ND	0.010
2-Chloronaphthalene, mg/l	ND	0.010
Acenaphthylene, mg/l	ND	0.010
Acenaphthene, mg/l	ND	0.010
Fluorene, mg/l	ND	0.010
Hexachlorobenzene, mg/l	ND	0.010
Phenanthrene, mg/l	ND	0.010
Anthracene, mg/l	ND	0.010
Di-n-butylphthalate, mg/l	ND	0.010
Fluoranthene, mg/l	ND	0.010
Pyrene, mg/l	ND	0.010
bis(2-Ethylhexyl)phthalate, mg/l	ND	0.010
Chrysene, mg/l	ND	0.010
Benzo(a)anthracene, mg/l	ND	0.010
Benzo(b)fluoranthene, mg/l	ND	0.010
Benzo(k)fluoranthene, mg/l	ND	0.010
Benzo(a)pyrene, mg/l	ND	0.010
Indeno(1,2,3-cd)pyrene, mg/l	ND	0.010
Dibenzo(a,h)anthracene, mg/l	ND	0.010
Benzo(g,h,i)perylene, mg/l	ND	0.010

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10473-22	Method Blank	
10473-23	Practical Quantitation Limits	

PARAMETER	10473-22	10473-23
2-Chlorophenol, mg/l	ND	0.010
Phenol, mg/l	ND	0.010
2,4-Dimethylphenol, mg/l	ND	0.010
Pentachlorophenol, mg/l	ND	0.050
2-Methylphenol (o-Cresol), mg/l	ND	0.010
2-Methylnaphthalene, mg/l	ND	0.010
2,4,5-Trichlorophenol, mg/l	ND	0.010
Dibenzofuran, mg/l	ND	0.010
Carbazole, mg/l	ND	0.010
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	ND	0.010
Tetrachlorophenols, mg/l	ND	0.010
Dilution factor	1	1
Arsenic (6010), mg/l	ND	0.010
Chromium (6010), mg/l	ND	0.010
Copper (6010), mg/l	ND	0.020

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10473-22	Method Blank	
10473-23	Practical Quantitation Limits	

PARAMETER	10473-22	10473-23
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/l	ND	0.0050
Acetone, mg/l	ND	0.050
Chloroform, mg/l	ND	0.0050
2-Butanone (MEK), mg/l	ND	0.025
Bromodichloromethane, mg/l	ND	0.0050
1,1,2,2-Tetrachloroethane, mg/l	ND	0.0050
1,2-Dichloropropane, mg/l	ND	0.0050
1,1,2-Trichloroethane, mg/l	ND	0.0050
Benzene, mg/l	ND	0.0050
Toluene, mg/l	ND	0.0050
Ethylbenzene, mg/l	ND	0.0050
Xylenes, Total, mg/l	ND	0.010

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10473-31	Method Detection Limit (MDL)	
10473-24	Accuracy (Mean % Rec)	

PARAMETER	10473-31	10473-24
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/l	0.00036	77 %
2-Chloronaphthalene, mg/l	0.00039	---
Acenaphthylene, mg/l	0.00033	92 %
Acenaphthene, mg/l	0.00025	88 %
Fluorene, mg/l	0.00038	97 %
Hexachlorobenzene, mg/l	0.00019	---
Phenanthrene, mg/l	0.00033	96 %
Anthracene, mg/l	0.00033	98 %
Di-n-butylphthalate, mg/l	0.00026	---
Fluoranthene, mg/l	0.00033	105 %
Pyrene, mg/l	0.00053	84 %
bis(2-Ethylhexyl)phthalate, mg/l	0.00048	---
Chrysene, mg/l	0.00044	93 %
Benzo(a)anthracene, mg/l	0.00030	96 %
Benzo(b)fluoranthene, mg/l	0.00028	91 %
Benzo(k)fluoranthene, mg/l	0.00072	90 %
Benzo(a)pyrene, mg/l	0.00041	93 %
Indeno(1,2,3-cd)pyrene, mg/l	0.00056	115 %
Dibenzo(a,h)anthracene, mg/l	0.00080	94 %

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10473-31	Method Detection Limit (MDL)	
10473-24	Accuracy (Mean % Rec)	

PARAMETER	10473-31	10473-24
Benzo(g,h,i)perylene, mg/l	0.00068	---
2-Chlorophenol, mg/l	0.00024	82 %
Phenol, mg/l	0.00028	72 %
2,4-Dimethylphenol, mg/l	0.00039	98 %
Pentachlorophenol, mg/l	0.0040	86 %
2-Methylphenol (o-Cresol), mg/l	0.00029	86 %
2-Methylnaphthalene, mg/l	0.00033	---
2,4,5-Trichlorophenol, mg/l	0.00074	86 %
Dibenzofuran, mg/l	0.00029	---
Carbazole, mg/l	0.00054	99 %
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	0.00071	78 %
Tetrachlorophenols, mg/l	0.00061	88 %
Arsenic (6010), mg/l	0.0032	100 %
Chromium (6010), mg/l	0.0017	106 %
Copper (6010), mg/l	0.00090	102 %

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10473-31	Method Detection Limit (MDL)	
10473-24	Accuracy (Mean % Rec)	

PARAMETER	10473-31	10473-24
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/l	0.00031	---
Acetone, mg/l	0.0099	---
Chloroform, mg/l	0.00090	---
2-Butanone (MEK), mg/l	0.011	---
Bromodichloromethane, mg/l	0.00035	---
1,1,2,2-Tetrachloroethane, mg/l	0.00075	---
1,2-Dichloropropane, mg/l	0.00052	---
1,1,2-Trichloroethane, mg/l	0.00047	---
Benzene, mg/l	0.00027	103 %
Toluene, mg/l	0.00051	99 %
Ethylbenzene, mg/l	0.00083	---
Xylenes, Total, mg/l	0.0019	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10473-25	Precision (%RPD)	
10473-26	Analyst Initials	

PARAMETER	10473-25	10473-26
Acid & Base Neutral Extractables (8270)		
Naphthalene	8 %	Kim Humphreys
Acenaphthylene	1 %	Kim Humphreys
Acenaphthene	1 %	Kim Humphreys
Fluorene	6 %	Kim Humphreys
Phenanthrene	5 %	Kim Humphreys
Anthracene	5 %	Kim Humphreys
Fluoranthene	10 %	Kim Humphreys
Pyrene	0 %	Kim Humphreys
Chrysene	2 %	Kim Humphreys
Benzo(a)anthracene	3 %	Kim Humphreys
Benzo(b)fluoranthene	11 %	Kim Humphreys
Benzo(k)fluoranthene	16 %	Kim Humphreys
Benzo(a)pyrene	4 %	Kim Humphreys
Indeno(1,2,3-cd)pyrene	9 %	Kim Humphreys
Dibenzo(a,h)anthracene	13 %	Kim Humphreys
2-Chlorophenol	1 %	Kim Humphreys
Phenol	1 %	Kim Humphreys
2,4-Dimethylphenol	5 %	Kim Humphreys
Pentachlorophenol	4 %	Kim Humphreys
2-Methylphenol (o-Cresol)	1 %	Kim Humphreys

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10473-25	Precision (%RPD)	
10473-26	Analyst Initials	

PARAMETER	10473-25	10473-26
2,4,5-Trichlorophenol	4 %	Kim Humphreys
Carbazole	2 %	Kim Humphreys
3-Methylphenol/4-Methylphenol (m&p-Cresol)	1 %	Kim Humphreys
Tetrachlorophenols	10 %	Kim Humphreys
2-Chloronaphthalene	---	Kim Humphreys
Hexachlorobenzene	---	Kim Humphreys
Di-n-butylphthalate	---	Kim Humphreys
bis(2-Ethylhexyl)phthalate	---	Kim Humphreys
Benzo(g,h,i)perylene	---	Kim Humphreys
2-Methylnaphthalene	---	Kim Humphreys
Dibenzofuran	---	Kim Humphreys
Arsenic (6010)	0.43 %	Susan Norwood
Chromium (6010)	0.34 %	Susan Norwood
Copper (6010)	0.98 %	Susan Norwood

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10473-25	Precision (%RPD)	
10473-26	Analyst Initials	

PARAMETER	10473-25	10473-26
Volatiles by GC/MS (8260)		
Benzene	2 %	Paul Grimm
Toluene	2 %	Paul Grimm
Methylene chloride (Dichloromethane)	---	Paul Grimm
Acetone	---	Paul Grimm
Chloroform	---	Paul Grimm
2-Butanone (MEK)	---	Paul Grimm
Bromodichloromethane	---	Paul Grimm
1,1,2,2-Tetrachloroethane	---	Paul Grimm
1,2-Dichloropropane	---	Paul Grimm
1,1,2-Trichloroethane	---	Paul Grimm
Ethylbenzene	---	Paul Grimm
Xylenes, Total	---	Paul Grimm

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10473-27	EPA Method Numbers	
10473-28	Dates Extracted	

PARAMETER	10473-27	10473-28
Acid & Base Neutral Extractables (8270)		
Naphthalene	8270C	01.29.01
2-Chloronaphthalene	8270C	01.29.01
Acenaphthylene	8270C	01.29.01
Acenaphthene	8270C	01.29.01
Fluorene	8270C	01.29.01
Hexachlorobenzene	8270C	01.29.01
Phenanthrene	8270C	01.29.01
Anthracene	8270C	01.29.01
Di-n-butylphthalate	8270C	01.29.01
Fluoranthene	8270C	01.29.01
Pyrene	8270C	01.29.01
bis(2-Ethylhexyl)phthalate	8270C	01.29.01
Chrysene	8270C	01.29.01
Benzo(a)anthracene	8270C	01.29.01
Benzo(b)fluoranthene	8270C	01.29.01
Benzo(k)fluoranthene	8270C	01.29.01
Benzo(a)pyrene	8270C	01.29.01
Indeno(1,2,3-cd)pyrene	8270C	01.29.01
Dibenzo(a,h)anthracene	8270C	01.29.01
Benzo(g,h,i)perylene	8270C	01.29.01

SEVERN TRENT SERVICES
STL Savannah
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LOG NO: S1-10473
Received: 25 JAN 01
Reported: 13 FEB 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 144310214

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10473-27	EPA Method Numbers	
10473-28	Dates Extracted	

PARAMETER	10473-27	10473-28
2-Chlorophenol	8270C	01.29.01
Phenol	8270C	01.29.01
2,4-Dimethylphenol	8270C	01.29.01
Pentachlorophenol	8270C	01.29.01
2-Methylphenol (o-Cresol)	8270C	01.29.01
2-Methylnaphthalene	8270C	01.29.01
2,4,5-Trichlorophenol	8270C	01.29.01
Dibenzofuran	8270C	01.29.01
Carbazole	8270C	01.29.01
3-Methylphenol/4-Methylphenol (m&p-Cresol)	8270C	01.29.01
Tetrachlorophenols	8270C	01.29.01
Arsenic (6010)	6010	---
Chromium (6010)	6010	---
Copper (6010)	6010	---

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CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 144310214

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10473-27	EPA Method Numbers	
10473-28	Dates Extracted	

PARAMETER	10473-27	10473-28
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane)	8260	---
Acetone	8260	---
Chloroform	8260	---
2-Butanone (MEK)	8260	---
Bromodichloromethane	8260	---
1,1,2,2-Tetrachloroethane	8260	---
1,2-Dichloropropane	8260	---
1,1,2-Trichloroethane	8260	---
Benzene	8260	---
Toluene	8260	---
Ethylbenzene	8260	---
Xylenes, Total	8260	---

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Project: WILMINGTON
Sampled By: Client
Code: 144310214

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10473-29	Dates Analyzed	

PARAMETER	10473-29
Acid & Base Neutral Extractables (8270)	
Naphthalene	01.31.01
2-Chloronaphthalene	01.31.01
Acenaphthylene	01.31.01
Acenaphthene	01.31.01
Fluorene	01.31.01
Hexachlorobenzene	01.31.01
Phenanthrene	01.31.01
Anthracene	01.31.01
Di-n-butylphthalate	01.31.01
Fluoranthene	01.31.01
Pyrene	01.31.01
bis(2-Ethylhexyl)phthalate	01.31.01
Chrysene	01.31.01
Benzo(a)anthracene	01.31.01
Benzo(b)fluoranthene	01.31.01
Benzo(k)fluoranthene	01.31.01
Benzo(a)pyrene	01.31.01
Indeno(1,2,3-cd)pyrene	01.31.01
Dibenzo(a,h)anthracene	01.31.01
Benzo(g,h,i)perylene	01.31.01
2-Chlorophenol	01.31.01
Phenol	01.31.01

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Sampled By: Client
Code: 144310214

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10473-29	Dates Analyzed	

PARAMETER	10473-29
2,4-Dimethylphenol	01.31.01
Pentachlorophenol	01.31.01
2-Methylphenol (o-Cresol)	01.31.01
2-Methylnaphthalene	01.31.01
2,4,5-Trichlorophenol	01.31.01
Dibenzofuran	01.31.01
Carbazole	01.31.01
3-Methylphenol/4-Methylphenol (m&p-Cresol)	01.31.01
Tetrachlorophenols	01.31.01
Arsenic (6010)	01.31.01
Chromium (6010)	01.31.01
Copper (6010)	01.31.01

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Project: WILMINGTON
Sampled By: Client
Code: 144310214

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10473-29	Dates Analyzed	

PARAMETER	10473-29
Volatiles by GC/MS (8260)	
Methylene chloride (Dichloromethane)	01.30.01
Acetone	01.30.01
Chloroform	01.30.01
2-Butanone (MEK)	01.30.01
Bromodichloromethane	01.30.01
1,1,2,2-Tetrachloroethane	01.30.01
1,2-Dichloropropane	01.30.01
1,1,2-Trichloroethane	01.30.01
Benzene	01.30.01
Toluene	01.30.01
Ethylbenzene	01.30.01
Xylenes, Total	01.30.01

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.
Lab Manager - Henry Beauchamp
Methods: EPA SW-846
ND = Not Detected

Gloria D. Fulwood

Gloria D. Fulwood, Project Manager

Final Page Of Report

Serial Number UU346U

SEVERN TRENT SERVICES

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Severn Trent Laboratories, Inc.

- [x] 5102 LaRoche Avenue, Savannah, GA 31404 — Phone: (912) 354-7858 — Fax: (912) 352-0165
- [ ] 2846 Industrial Plaza Drive, Tallahassee, FL 32301 — Phone: (850) 878-3994 — Fax: (850) 878-9504
- [ ] 900 Lakeside Drive, Mobile, AL 36693 — Phone: (334) 666-6633 — Fax: (334) 666-6696
- [ ] 6712 Benjamin Road, Suite 100, Tampa, FL 33634 — Phone: (813) 885-7427 — Fax: (813) 885-7049

PROJECT REFERENCE: SWP-Wilmington	PROJECT NO.: 979007.A0-27	PROJECT LOCATION (STATE): NC
STL (LAB) PROJECT MANAGER: G. Fulwood	P.O. NUMBER:	CONTRACT NO.:
CLIENT (SITE): Southern Wood Piedmont	CLIENT PHONE: 864-599-1070	CLIENT FAX: 864-599-1087
CLIENT NAME: Bill Arrants	CLIENT E-MAIL: william.arrants@rayonier.com	
CLIENT ADDRESS: P.O. Box 5447 Spartanburg, SC 29304		
COMPANY CONTRACTING THIS WORK (if applicable): Schnabel Engineering - Greg Kuntz		

PAGE 1 OF 1

STANDARD REPORT DELIVERY [x] DATE DUE ____

EXPEDITED REPORT DELIVERY (SURCHARGE) [ ] DATE DUE ____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: Solid	MATRIX: Liquid	VOC-Soil (Encore)	VOC-Soil (Bulk)	TOC/Ammonia-Soil	SVOC-Soil	As/Cr/Cu-Soil			SVOC-Liquid	As/Cr/Cu-Liquid	VOC-8260-Liquid	REMARKS
					PRESERVATIVE										
					NUMBER CONTAINERS SUBMITTED										
1/24/01	8:15	SS-7 SWP Log# 17404	X				1								*Also included 15
	8:45	SS-2 17405					1								VOC equipment
	9:25	SD-22 17406			3	1	1	1	1						blank Equip 11101
	10:00	SD-21 17407			3	1	1	1	1						collected on 1/11/01
	10:20	SD-03 17408					1								and recorded on
	10:45	SS-3 17409					1								chain-of-custody
	11:10	SS-4 17410					1								1/11/01
	11:30	SS-6 17411					1								2 containers
	11:55	SS-5 17412					1								VOC-8260-Liquid
	12:30	SD-25 17413			3	1	1	1	1						
	8:15	SS-7-Dup ----					1								
	15:00	Equip 12401 ----		X								2	1	2	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Gregory B. Kuntz	1/24/01	16:30			

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS								

LABORATORY USE ONLY

RECEIVED FOR LABORATORY USE BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	STL SL LOG NO.	LABORATORY REMARKS
	1/25/01	8:35	YES / NO		51-10473	

FedEx USA Airbill FedEx Tracking Number 824136805143

1 From *Please print and press hard.*

Date 1/26/01 Sender's FedEx Account Number 2181-1829-1

Sender's Name Greg Kurtz Phone (803) 796-6240

Company SCHNABEL ENGINEERING ASSOC

Address 104 CORPORATE BLVD STE 420

Dept./Floor/Suite/Room

City WEST COLUMBIA State SC ZIP 29169

2 Your Internal Billing Reference
First 24 characters will appear on invoice.

3 To

Recipient's Name Gloria Fulwood Phone (912) 354-7858

Company Severn Trent Services

Address 5102 LaRoche Avenue

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

City Savannah State GA ZIP 31404

Peel and Stick FedEx USA Airbill

See back for application instructions.

Questions? Call 1·800·Go·FedEx* (800-463-3339)

Visit our Web site at www.fedex.com

By using this Airbill you agree to the service conditions on the back of this Airbill and in our current Service Guide, including terms that limit our liability.

0156288956

Sender's Copy

4a Express Package Service *Packages up to 150 lbs.* Delivery commitment may be later in some areas.

- [x] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

*FedEx Envelope/Letter Rate not available. Minimum charge: One-pound rate

JAN 31 2001 RECEIVED

4b Express Freight Service *Packages over 150 lbs.* Delivery commitment may be later in some areas.

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

*Call for Confirmation: _____

5 Packaging *Declared value limit $500

- [ ] FedEx Envelope/Letter*
- [ ] FedEx Pak*
- [x] Other Pkg. — Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling — Include FedEx address in Section 3.

- [ ] SATURDAY Delivery — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] SUNDAY Delivery — Available for FedEx Priority Overnight to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available with FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [ ] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous Goods cannot be shipped in FedEx packaging.

- [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

FedEx Acct. No. / Credit Card No. Exp. Date

Total Packages	Total Weight	Total Declared Value†
2		$ .00

†Our liability is limited to $100 unless you declare a higher value. See back for details.

FedEx Use Only

8 Release Signature *Sign to authorize delivery without obtaining signature.*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

402

PULL AND RETAIN THIS COPY BEFORE AFFIXING TO THE PACKAGE.

RECEIVED
FEB 26 2001

5102 LaRoche Avenue • Savannah, GA 31404 • Tel: 912 354-7858 • Fax: 912 352 0165 • www.stlinc.com

SEVERN TRENT SERVICES
STL Savannah

LOG NO: S1-10549
Received: 29 JAN 01
Reported: 15 FEB 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 155410215

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10549-1	SD-24 (#17418)	01-25-01/07:50
10549-2	SD-23 (#17419)	01-25-01/08:30

PARAMETER	10549-1	10549-2
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/kg dw	ND	ND
Acetone, mg/kg dw	ND	ND
Chloroform, mg/kg dw	ND	ND
2-Butanone (MEK), mg/kg dw	ND	ND
Bromodichloromethane, mg/kg dw	ND	ND
1,1,2,2-Tetrachloroethane, mg/kg dw	ND	ND
1,2-Dichloropropane, mg/kg dw	ND	ND
1,1,2-Trichloroethane, mg/kg dw	ND	ND
Benzene, mg/kg dw	ND	ND
Toluene, mg/kg dw	ND	ND
Ethylbenzene, mg/kg dw	ND	ND
Xylenes, Total, mg/kg dw	ND	ND
Total Organic Carbon (9060), mg/kg dw	180000	43000
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	17	2.5

SEVERN TRENT SERVICES
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10549-1	SD-24 (#17418)	01-25-01/07:50
10549-2	SD-23 (#17419)	01-25-01/08:30

PARAMETER	10549-1	10549-2
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/kg dw	ND	ND
2-Chloronaphthalene, mg/kg dw	ND	ND
Acenaphthylene, mg/kg dw	ND	ND
Acenaphthene, mg/kg dw	ND	ND
Fluorene, mg/kg dw	ND	ND
Hexachlorobenzene, mg/kg dw	ND	ND
Phenanthrene, mg/kg dw	ND	ND
Anthracene, mg/kg dw	ND	ND
Di-n-butylphthalate, mg/kg dw	ND	ND
Fluoranthene, mg/kg dw	1.4J	2.1
Pyrene, mg/kg dw	1.0J	1.7
bis(2-Ethylhexyl)phthalate, mg/kg dw	ND	ND
Chrysene, mg/kg dw	1.1J	1.9
Benzo(a)anthracene, mg/kg dw	0.70J	1.5
Benzo(b)fluoranthene, mg/kg dw	ND	1.6
Benzo(k)fluoranthene, mg/kg dw	ND	1.3
Benzo(a)pyrene, mg/kg dw	ND	0.95
Indeno(1,2,3-cd)pyrene, mg/kg dw	ND	ND
Dibenzo(a,h)anthracene, mg/kg dw	ND	ND
Benzo(g,h,i)perylene, mg/kg dw	ND	ND
2-Chlorophenol, mg/kg dw	ND	ND

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10549-1	SD-24 (#17418)	01-25-01/07:50
10549-2	SD-23 (#17419)	01-25-01/08:30

PARAMETER	10549-1	10549-2
Phenol, mg/kg dw	ND	ND
2,4-Dimethylphenol, mg/kg dw	ND	ND
Pentachlorophenol, mg/kg dw	ND	ND
2-Methylphenol (o-Cresol), mg/kg dw	ND	ND
2-Methylnaphthalene, mg/kg dw	ND	ND
2,4,5-Trichlorophenol, mg/kg dw	ND	ND
Dibenzofuran, mg/kg dw	ND	ND
Carbazole, mg/kg dw	ND	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/kg dw	ND	ND
Tetrachlorophenols, mg/kg dw	ND	ND
Dilution factor	~~1~~ 4.2	~~1~~ 11.05
Arsenic (6010), mg/kg dw	180	6.6
Chromium (6010), mg/kg dw	35	12
Copper (6010), mg/kg dw	69	22
Percent Solids	9	42

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Project: WILMINGTON
Sampled By: Client
Code: 155410215

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10549-3	SD-41 (#17421)	01-25-01/09:30
10549-4	SD-38 (#17422)	01-25-01/09:55

PARAMETER	10549-3	10549-4
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/kg dw	0.011J	ND
Acetone, mg/kg dw	ND	ND
Chloroform, mg/kg dw	ND	ND
2-Butanone (MEK), mg/kg dw	0.021J	ND
Bromodichloromethane, mg/kg dw	ND	ND
1,1,2,2-Tetrachloroethane, mg/kg dw	ND	ND
1,2-Dichloropropane, mg/kg dw	ND	ND
1,1,2-Trichloroethane, mg/kg dw	ND	ND
Benzene, mg/kg dw	ND	ND
Toluene, mg/kg dw	ND	ND
Ethylbenzene, mg/kg dw	ND	ND
Xylenes, Total, mg/kg dw	ND 0.032	ND
Total Organic Carbon (9060), mg/kg dw	73000	61000
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	78	0.55

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Sampled By: Client
Code: 155410215

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10549-3	SD-41 (#17421)	01-25-01/09:30
10549-4	SD-38 (#17422)	01-25-01/09:55

PARAMETER	10549-3	10549-4
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/kg dw	ND	ND
2-Chloronaphthalene, mg/kg dw	ND	ND
Acenaphthylene, mg/kg dw	ND	ND
Acenaphthene, mg/kg dw	ND	ND
Fluorene, mg/kg dw	ND	ND
Hexachlorobenzene, mg/kg dw	ND	ND
Phenanthrene, mg/kg dw	ND	ND
Anthracene, mg/kg dw	ND	ND
Di-n-butylphthalate, mg/kg dw	ND	ND
Fluoranthene, mg/kg dw	ND	1.6J
Pyrene, mg/kg dw	ND	1.2J
bis(2-Ethylhexyl)phthalate, mg/kg dw	ND	ND
Chrysene, mg/kg dw	ND	1.6J
Benzo(a)anthracene, mg/kg dw	ND	ND
Benzo(b)fluoranthene, mg/kg dw	ND	2.0J
Benzo(k)fluoranthene, mg/kg dw	ND	1.9J
Benzo(a)pyrene, mg/kg dw	ND	1.5J
Indeno(1,2,3-cd)pyrene, mg/kg dw	ND	ND
Dibenzo(a,h)anthracene, mg/kg dw	ND	ND
Benzo(g,h,i)perylene, mg/kg dw	ND	ND
2-Chlorophenol, mg/kg dw	ND	ND

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Project: WILMINGTON
Sampled By: Client
Code: 155410215

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10549-3	SD-41 (#17421)	01-25-01/09:30
10549-4	SD-38 (#17422)	01-25-01/09:55

PARAMETER	10549-3	10549-4
Phenol, mg/kg dw	ND	ND
2,4-Dimethylphenol, mg/kg dw	ND	ND
Pentachlorophenol, mg/kg dw	ND	ND
2-Methylphenol (o-Cresol), mg/kg dw	ND	ND
2-Methylnaphthalene, mg/kg dw	ND	ND
2,4,5-Trichlorophenol, mg/kg dw	ND	ND
Dibenzofuran, mg/kg dw	ND	ND
Carbazole, mg/kg dw	ND	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/kg dw	ND	ND
Tetrachlorophenols, mg/kg dw	ND	ND
Dilution factor	~~1~~ ND	~~1~~ 9.8
Arsenic (6010), mg/kg dw	120	6.0
Chromium (6010), mg/kg dw	19	21
Copper (6010), mg/kg dw	28	11
Percent Solids	23	41

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LOG NO: S1-10549
Received: 29 JAN 01
Reported: 15 FEB 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 155410215

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10549-5	SD-36 (#17423)	01-25-01/10:40
10549-6	SD-37 (#17424)	01-25-01/11:00

PARAMETER	10549-5	10549-6
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/kg dw	0.0094J	ND
Acetone, mg/kg dw	ND	ND
Chloroform, mg/kg dw	ND	ND
2-Butanone (MEK), mg/kg dw	ND	ND
Bromodichloromethane, mg/kg dw	ND	ND
1,1,2,2-Tetrachloroethane, mg/kg dw	ND	ND
1,2-Dichloropropane, mg/kg dw	ND	ND
1,1,2-Trichloroethane, mg/kg dw	ND	ND
Benzene, mg/kg dw	ND	ND
Toluene, mg/kg dw	ND	ND
Ethylbenzene, mg/kg dw	ND	ND
Xylenes, Total, mg/kg dw	ND	ND
	0.0094	
Total Organic Carbon (9060), mg/kg dw	150000	58000
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	12	1.5

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10549-5	SD-36 (#17423)	01-25-01/10:40
10549-6	SD-37 (#17424)	01-25-01/11:00

PARAMETER	10549-5	10549-6
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/kg dw	ND	ND
2-Chloronaphthalene, mg/kg dw	ND	ND
Acenaphthylene, mg/kg dw	ND	ND
Acenaphthene, mg/kg dw	ND	ND
Fluorene, mg/kg dw	ND	ND
Hexachlorobenzene, mg/kg dw	ND	ND
Phenanthrene, mg/kg dw	ND	ND
Anthracene, mg/kg dw	ND	ND
Di-n-butylphthalate, mg/kg dw	ND	ND
Fluoranthene, mg/kg dw	ND	ND
Pyrene, mg/kg dw	ND	ND
bis(2-Ethylhexyl)phthalate, mg/kg dw	ND	ND
Chrysene, mg/kg dw	ND	ND
Benzo(a)anthracene, mg/kg dw	ND	ND
Benzo(b)fluoranthene, mg/kg dw	ND	ND
Benzo(k)fluoranthene, mg/kg dw	ND	ND
Benzo(a)pyrene, mg/kg dw	ND	ND
Indeno(1,2,3-cd)pyrene, mg/kg dw	ND	ND
Dibenzo(a,h)anthracene, mg/kg dw	ND	ND
Benzo(g,h,i)perylene, mg/kg dw	ND	ND
2-Chlorophenol, mg/kg dw	ND	ND

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10549-5	SD-36 (#17423)	01-25-01/10:40
10549-6	SD-37 (#17424)	01-25-01/11:00

PARAMETER	10549-5	10549-6
Phenol, mg/kg dw	ND	ND
2,4-Dimethylphenol, mg/kg dw	ND	ND
Pentachlorophenol, mg/kg dw	ND	ND
2-Methylphenol (o-Cresol), mg/kg dw	ND	ND
2-Methylnaphthalene, mg/kg dw	ND	ND
2,4,5-Trichlorophenol, mg/kg dw	ND	ND
Dibenzofuran, mg/kg dw	ND	ND
Carbazole, mg/kg dw	ND	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/kg dw	ND	ND
Tetrachlorophenols, mg/kg dw	ND	ND
Dilution factor	1	1
Arsenic (6010), mg/kg dw	8.1	6.4
Chromium (6010), mg/kg dw	22	18
Copper (6010), mg/kg dw	23	9.7
Percent Solids	22	38

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10549-7	SD-13 (#17417)	01-25-00/07:30
10549-8	SD-05 (#17420)	01-25-00/08:50

PARAMETER	10549-7	10549-8
Total Organic Carbon (9060), mg/kg dw	120000	45000
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	10	2.5
Percent Solids	35	41

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION, SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10549-9	SD-14 (#17425)	01-25-00/11:25
10549-10	SD-19 (#17426)	01-25-00/12:10

PARAMETER	10549-9	10549-10
Total Organic Carbon (9060), mg/kg dw	69000	21000
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	1.9	1.9
Percent Solids	35	72

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10549-11	SD-18 (#17427)	01-25-00/13:20
10549-12	SD-18-DUP	01-25-00/13:20

PARAMETER	10549-11	10549-12
Total Organic Carbon (9060), mg/kg dw	9800	8600
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	0.71	ND
Percent Solids	68	72

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION, SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10549-13	SD-17 (#17428)	01-25-00/13:45
10549-14	SD-16 (#17429)	01-25-00/14:05

PARAMETER	10549-13	10549-14
Total Organic Carbon (9060), mg/kg dw	9300	4300
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	ND	ND
Percent Solids	60	81

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10549-15	SD-15 (#17430)	01-25-00/14:30

PARAMETER	10549-15
Total Organic Carbon (9060), mg/kg dw	260000
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	17
Percent Solids	11

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10549-16	SD-48 (#17431)	01-25-01/15:20

PARAMETER	10549-16
Volatiles by GC/MS (8260)	
Methylene chloride (Dichloromethane), mg/kg dw	0.0016J
Acetone, mg/kg dw	ND
Chloroform, mg/kg dw	ND
2-Butanone (MEK), mg/kg dw	0.0073J
Bromodichloromethane, mg/kg dw	ND
1,1,2,2-Tetrachloroethane, mg/kg dw	ND
1,2-Dichloropropane, mg/kg dw	ND
1,1,2-Trichloroethane, mg/kg dw	ND
Benzene, mg/kg dw	ND
Toluene, mg/kg dw	ND
Ethylbenzene, mg/kg dw	ND
Xylenes, Total, mg/kg dw	ND
	0.0089

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LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10549-16	SD-48 (#17431)	01-25-01/15:20

PARAMETER	10549-16
Acid & Base Neutral Extractables (8270)	
Naphthalene, mg/kg dw	ND
2-Chloronaphthalene, mg/kg dw	ND
Acenaphthylene, mg/kg dw	ND
Acenaphthene, mg/kg dw	ND
Fluorene, mg/kg dw	ND
Hexachlorobenzene, mg/kg dw	ND
Phenanthrene, mg/kg dw	ND
Anthracene, mg/kg dw	ND
Di-n-butylphthalate, mg/kg dw	ND
Fluoranthene, mg/kg dw	ND
Pyrene, mg/kg dw	ND
bis(2-Ethylhexyl)phthalate, mg/kg dw	ND
Chrysene, mg/kg dw	ND
Benzo(a)anthracene, mg/kg dw	ND
Benzo(b)fluoranthene, mg/kg dw	ND
Benzo(k)fluoranthene, mg/kg dw	ND
Benzo(a)pyrene, mg/kg dw	ND
Indeno(1,2,3-cd)pyrene, mg/kg dw	ND
Dibenzo(a,h)anthracene, mg/kg dw	ND
Benzo(g,h,i)perylene, mg/kg dw	ND
2-Chlorophenol, mg/kg dw	ND
Phenol, mg/kg dw	ND

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10549-16	SD-48 (#17431)	01-25-01/15:20

PARAMETER	10549-16
2,4-Dimethylphenol, mg/kg dw	ND
Pentachlorophenol, mg/kg dw	ND
2-Methylphenol (o-Cresol), mg/kg dw	ND
2-Methylnaphthalene, mg/kg dw	ND
2,4,5-Trichlorophenol, mg/kg dw	ND
Dibenzofuran, mg/kg dw	ND
Carbazole, mg/kg dw	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/kg dw	ND
Tetrachlorophenols, mg/kg dw	ND
Dilution factor	1
Arsenic (6010), mg/kg dw	1.1B
Chromium (6010), mg/kg dw	1.6
Copper (6010), mg/kg dw	5.7
Percent Solids	68

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10549-17	Equip12501	01-25-01/13:00

PARAMETER	10549-17
Acid & Base Neutral Extractables (8270)	
Naphthalene, mg/l	ND
2-Chloronaphthalene, mg/l	ND
Acenaphthylene, mg/l	ND
Acenaphthene, mg/l	ND
Fluorene, mg/l	ND
Hexachlorobenzene, mg/l	ND
Phenanthrene, mg/l	ND
Anthracene, mg/l	ND
Di-n-butylphthalate, mg/l	0.0012J
Fluoranthene, mg/l	ND
Pyrene, mg/l	ND
bis(2-Ethylhexyl)phthalate, mg/l	0.00062J
Chrysene, mg/l	0.0028J
Benzo(a)anthracene, mg/l	0.0027J
Benzo(b)fluoranthene, mg/l	ND
Benzo(k)fluoranthene, mg/l	ND
Benzo(a)pyrene, mg/l	ND
Indeno(1,2,3-cd)pyrene, mg/l	ND
Dibenzo(a,h)anthracene, mg/l	ND
Benzo(g,h,i)perylene, mg/l	ND
2-Chlorophenol, mg/l	ND
Phenol, mg/l	ND

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10549-17	Equip12501	01-25-01/13:00

PARAMETER	10549-17
2,4-Dimethylphenol, mg/l	ND
Pentachlorophenol, mg/l	ND
2-Methylphenol (o-Cresol), mg/l	ND
2-Methylnaphthalene, mg/l	ND
2,4,5-Trichlorophenol, mg/l	ND
Dibenzofuran, mg/l	ND
Carbazole, mg/l	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	ND
Tetrachlorophenols, mg/l	ND
Dilution factor	1
Arsenic (6010), mg/l	ND
Chromium (6010), mg/l	ND
Copper (6010), mg/l	0.013B

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10549-17	Equip12501	01-25-01/13:00

PARAMETER	10549-17
Volatiles by GC/MS (8260)	
Methylene chloride (Dichloromethane), mg/l	0.0019J
Acetone, mg/l	ND
Chloroform, mg/l	ND
2-Butanone (MEK), mg/l	ND
Bromodichloromethane, mg/l	ND
1,1,2,2-Tetrachloroethane, mg/l	ND
1,2-Dichloropropane, mg/l	ND
1,1,2-Trichloroethane, mg/l	ND
Benzene, mg/l	ND
Toluene, mg/l	ND
Ethylbenzene, mg/l	ND
Xylenes, Total, mg/l	ND

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10549-18	Trip11001	01-10-01
10549-19	Trip11801	01-18-01

PARAMETER	10549-18	10549-19
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/l	0.0017J	0.0015J
Acetone, mg/l	ND	ND
Chloroform, mg/l	ND	ND
2-Butanone (MEK), mg/l	ND	ND
Bromodichloromethane, mg/l	ND	ND
1,1,2,2-Tetrachloroethane, mg/l	ND	ND
1,2-Dichloropropane, mg/l	ND	ND
1,1,2-Trichloroethane, mg/l	ND	ND
Benzene, mg/l	ND	ND
Toluene, mg/l	ND	ND
Ethylbenzene, mg/l	ND	ND
Xylenes, Total, mg/l	ND	ND

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10549-20	Trip12301	01-23-01

PARAMETER	10549-20
Volatiles by GC/MS (8260)	
Methylene chloride (Dichloromethane), mg/l	0.0024J
Acetone, mg/l	ND
Chloroform, mg/l	ND
2-Butanone (MEK), mg/l	ND
Bromodichloromethane, mg/l	ND
1,1,2,2-Tetrachloroethane, mg/l	ND
1,2-Dichloropropane, mg/l	ND
1,1,2-Trichloroethane, mg/l	ND
Benzene, mg/l	ND
Toluene, mg/l	ND
Ethylbenzene, mg/l	ND
Xylenes, Total, mg/l	ND

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10549-21	Method Blank	
10549-22	Practical Quantitation Limits	

PARAMETER	10549-21	10549-22
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/kg dw	ND	0.0050
Acetone, mg/kg dw	ND	0.050
Chloroform, mg/kg dw	ND	0.0050
2-Butanone (MEK), mg/kg dw	ND	0.025
Bromodichloromethane, mg/kg dw	ND	0.0050
1,1,2,2-Tetrachloroethane, mg/kg dw	ND	0.0050
1,2-Dichloropropane, mg/kg dw	ND	0.0050
1,1,2-Trichloroethane, mg/kg dw	ND	0.0050
Benzene, mg/kg dw	ND	0.0050
Toluene, mg/kg dw	ND	0.0050
Ethylbenzene, mg/kg dw	ND	0.0050
Xylenes, Total, mg/kg dw	ND	0.010
Total Organic Carbon (9060), mg/kg dw	ND	500
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	ND	0.50

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10549-21	Method Blank	
10549-22	Practical Quantitation Limits	

PARAMETER	10549-21	10549-22
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/kg dw	ND	0.33
2-Chloronaphthalene, mg/kg dw	ND	0.33
Acenaphthylene, mg/kg dw	ND	0.33
Acenaphthene, mg/kg dw	ND	0.33
Fluorene, mg/kg dw	ND	0.33
Hexachlorobenzene, mg/kg dw	ND	0.33
Phenanthrene, mg/kg dw	ND	0.33
Anthracene, mg/kg dw	ND	0.33
Di-n-butylphthalate, mg/kg dw	ND	0.33
Fluoranthene, mg/kg dw	ND	0.33
Pyrene, mg/kg dw	ND	0.33
bis(2-Ethylhexyl)phthalate, mg/kg dw	ND	0.33
Chrysene, mg/kg dw	ND	0.33
Benzo(a)anthracene, mg/kg dw	ND	0.33
Benzo(b)fluoranthene, mg/kg dw	ND	0.33
Benzo(k)fluoranthene, mg/kg dw	ND	0.33
Benzo(a)pyrene, mg/kg dw	ND	0.33
Indeno(1,2,3-cd)pyrene, mg/kg dw	ND	0.33
Dibenzo(a,h)anthracene, mg/kg dw	ND	0.33
Benzo(g,h,i)perylene, mg/kg dw	ND	0.33
2-Chlorophenol, mg/kg dw	ND	0.33

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CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 155410215

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10549-21	Method Blank	
10549-22	Practical Quantitation Limits	

PARAMETER	10549-21	10549-22
Phenol, mg/kg dw	ND	0.33
2,4-Dimethylphenol, mg/kg dw	ND	0.33
Pentachlorophenol, mg/kg dw	ND	0.33
2-Methylphenol (o-Cresol), mg/kg dw	ND	0.33
2-Methylnaphthalene, mg/kg dw	ND	0.33
2,4,5-Trichlorophenol, mg/kg dw	ND	0.33
Dibenzofuran, mg/kg dw	ND	0.33
Carbazole, mg/kg dw	ND	0.33
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/kg dw	ND	0.33
Tetrachlorophenols, mg/kg dw	ND	0.33
Dilution factor	1	1
Arsenic (6010), mg/kg dw	ND	1.0
Chromium (6010), mg/kg dw	ND	1.0
Copper (6010), mg/kg dw	ND	2.0

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LOG NO: S1-10549
Received: 29 JAN 01
Reported: 15 FEB 01

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Southern Wood Piedmont (SP)
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10549-37	Method Detection Limit (MDL)	
10549-23	Accuracy (mean % recovery)	

PARAMETER	10549-37	10549-23
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/kg dw	0.0014	---
Acetone, mg/kg dw	0.0036	---
Chloroform, mg/kg dw	0.0017	---
2-Butanone (MEK), mg/kg dw	0.0033	---
Bromodichloromethane, mg/kg dw	0.00088	---
1,1,2,2-Tetrachloroethane, mg/kg dw	0.0010	---
1,2-Dichloropropane, mg/kg dw	0.0014	---
1,1,2-Trichloroethane, mg/kg dw	0.00096	---
Benzene, mg/kg dw	0.0017	120 %
Toluene, mg/kg dw	0.0018	121 %
Ethylbenzene, mg/kg dw	0.0020	---
Xylenes, Total, mg/kg dw	0.0016	---
Total Organic Carbon (9060), mg/kg dw	150	89 %
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	0.075	108 %

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10549-37	Method Detection Limit (MDL)	
10549-23	Accuracy (mean % recovery)	

PARAMETER	10549-37	10549-23
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/kg dw	0.025	79 %
2-Chloronaphthalene, mg/kg dw	0.024	---
Acenaphthylene, mg/kg dw	0.021	82 %
Acenaphthene, mg/kg dw	0.029	82 %
Fluorene, mg/kg dw	0.031	86 %
Hexachlorobenzene, mg/kg dw	0.045	---
Phenanthrene, mg/kg dw	0.017	90 %
Anthracene, mg/kg dw	0.021	91 %
Di-n-butylphthalate, mg/kg dw	0.028	---
Fluoranthene, mg/kg dw	0.031	97 %
Pyrene, mg/kg dw	0.063	86 %
bis(2-Ethylhexyl)phthalate, mg/kg dw	0.045	---
Chrysene, mg/kg dw	0.021	91 %
Benzo(a)anthracene, mg/kg dw	0.020	88 %
Benzo(b)fluoranthene, mg/kg dw	0.023	85 %
Benzo(k)fluoranthene, mg/kg dw	0.026	88 %
Benzo(a)pyrene, mg/kg dw	0.029	85 %
Indeno(1,2,3-cd)pyrene, mg/kg dw	0.067	86 %
Dibenzo(a,h)anthracene, mg/kg dw	0.052	82 %
Benzo(g,h,i)perylene, mg/kg dw	0.026	---

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10549-37	Method Detection Limit (MDL)	
10549-23	Accuracy (mean % recovery)	

PARAMETER	10549-37	10549-23
2-Chlorophenol, mg/kg dw	0.032	79 %
Phenol, mg/kg dw	0.042	74 %
2,4-Dimethylphenol, mg/kg dw	0.028	96 %
Pentachlorophenol, mg/kg dw	0.18	62 %
2-Methylphenol (o-Cresol), mg/kg dw	0.032	84 %
2-Methylnaphthalene, mg/kg dw	0.032	---
2,4,5-Trichlorophenol, mg/kg dw	0.029	8 %
Dibenzofuran, mg/kg dw	0.030	---
Carbazole, mg/kg dw	0.022	91 %
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/kg dw	0.042	76 %
Tetrachlorophenols, mg/kg dw	0.061	74 %
Arsenic (6010), mg/kg dw	0.45	96 %
Chromium (6010), mg/kg dw	0.17	105 %
Copper (6010), mg/kg dw	0.72	105 %

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10549-24	Precision (% RPD)	
10549-25	Analyst Initials	

PARAMETER	10549-24	10549-25
Volatiles by GC/MS (8260)		
Benzene	7 %	Paul Grimm
Toluene	2 %	Paul Grimm
Methylene chloride (Dichloromethane)	---	Paul Grimm
Acetone	---	Paul Grimm
Chloroform	---	Paul Grimm
2-Butanone (MEK)	---	Paul Grimm
Bromodichloromethane	---	Paul Grimm
1,1,2,2-Tetrachloroethane	---	Paul Grimm
1,2-Dichloropropane	---	Paul Grimm
1,1,2-Trichloroethane	---	Paul Grimm
Ethylbenzene	---	Paul Grimm
Xylenes, Total	---	Paul Grimm
Total Organic Carbon (9060)	2.2 %	Rob Davis
Ammonia (as N) (EPA/CE-81-1(3-140))	2.7 %	Rob Davis

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10549-24	Precision (% RPD)	
10549-25	Analyst Initials	

PARAMETER	10549-24	10549-25
Acid & Base Neutral Extractables (8270)		
Naphthalene	0 %	Kim Humphreys
Acenaphthylene	0 %	Kim Humphreys
Acenaphthene	7 %	Kim Humphreys
Fluorene	4 %	Kim Humphreys
Phenanthrene	3 %	Kim Humphreys
Anthracene	0 %	Kim Humphreys
Fluoranthene	0 %	Kim Humphreys
Pyrene	4 %	Kim Humphreys
Chrysene	0 %	Kim Humphreys
Benzo(a)anthracene	7 %	Kim Humphreys
Benzo(b)fluoranthene	7 %	Kim Humphreys
Benzo(k)fluoranthene	21 %	Kim Humphreys
Benzo(a)pyrene	7 %	Kim Humphreys
Indeno(1,2,3-cd)pyrene	4 %	Kim Humphreys
Dibenzo(a,h)anthracene	7 %	Kim Humphreys
2-Chlorophenol	8 %	Kim Humphreys
Phenol	4 %	Kim Humphreys
2,4-Dimethylphenol	3 %	Kim Humphreys
Pentachlorophenol	15 %	Kim Humphreys
2-Methylphenol (o-Cresol)	11 %	Kim Humphreys
2,4,5-Trichlorophenol	0 %	Kim Humphreys

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10549-24	Precision (% RPD)	
10549-25	Analyst Initials	

PARAMETER	10549-24	10549-25
Carbazole	0 %	Kim Humphreys
3-Methylphenol/4-Methylphenol (m&p-Cresol)	8 %	Kim Humphreys
Tetrachlorophenols	4 %	Kim Humphreys
2-Chloronaphthalene	---	Kim Humphreys
Hexachlorobenzene	---	Kim Humphreys
Di-n-butylphthalate	---	Kim Humphreys
bis(2-Ethylhexyl)phthalate	---	Kim Humphreys
Benzo(g,h,i)perylene	---	Kim Humphreys
2-Methylnaphthalene	---	Kim Humphreys
Dibenzofuran	---	Kim Humphreys
Arsenic (6010)	0.37 %	Susan Norwood
Chromium (6010)	0.01 %	Susan Norwood
Copper (6010)	0.01 %	Susan Norwood

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10549-26	EPA Method Numbers	-
10549-27	Dates Extracted	

PARAMETER	10549-26	10549-27
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane)	8260	---
Acetone	8260	---
Chloroform	8260	---
2-Butanone (MEK)	8260	---
Bromodichloromethane	8260	---
1,1,2,2-Tetrachloroethane	8260	---
1,2-Dichloropropane	8260	---
1,1,2-Trichloroethane	8260	---
Benzene	8260	---
Toluene	8260	---
Ethylbenzene	8260	---
Xylenes, Total	8260	---
Total Organic Carbon (9060)	9060	---
Ammonia (as N) (EPA/CE-81-1(3-140))	350.1	---

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10549-26	EPA Method Numbers	
10549-27	Dates Extracted	

PARAMETER	10549-26	10549-27
Acid & Base Neutral Extractables (8270)		
Naphthalene	8270C	01.31.01
2-Chloronaphthalene	8270C	01.31.01
Acenaphthylene	8270C	01.31.01
Acenaphthene	8270C	01.31.01
Fluorene	8270C	01.31.01
Hexachlorobenzene	8270C	01.31.01
Phenanthrene	8270C	01.31.01
Anthracene	8270C	01.31.01
Di-n-butylphthalate	8270C	01.31.01
Fluoranthene	8270C	01.31.01
Pyrene	8270C	01.31.01
bis(2-Ethylhexyl)phthalate	8270C	01.31.01
Chrysene	8270C	01.31.01
Benzo(a)anthracene	8270C	01.31.01
Benzo(b)fluoranthene	8270C	01.31.01
Benzo(k)fluoranthene	8270C	01.31.01
Benzo(a)pyrene	8270C	01.31.01
Indeno(1,2,3-cd)pyrene	8270C	01.31.01
Dibenzo(a,h)anthracene	8270C	01.31.01
Benzo(g,h,i)perylene	8270C	01.31.01
2-Chlorophenol	8270C	01.31.01

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10549-26	EPA Method Numbers	-
10549-27	Dates Extracted	

PARAMETER	10549-26	10549-27
Phenol	8270C	01.31.01
2,4-Dimethylphenol	8270C	01.31.01
Pentachlorophenol	8270C	01.31.01
2-Methylphenol (o-Cresol)	8270C	01.31.01
2-Methylnaphthalene	8270C	01.31.01
2,4,5-Trichlorophenol	8270C	01.31.01
Dibenzofuran	8270C	01.31.01
Carbazole	8270C	01.31.01
3-Methylphenol/4-Methylphenol (m&p-Cresol)	8270C	01.31.01
Tetrachlorophenols	8270C	01.31.01
Arsenic (6010)	6010	---
Chromium (6010)	6010	---
Copper (6010)	6010	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10549-28	Dates Analyzed	

PARAMETER	10549-28
Volatiles by GC/MS (8260)	
Methylene chloride (Dichloromethane)	02.01.01
Acetone	02.01.01
Chloroform	02.01.01
2-Butanone (MEK)	02.01.01
Bromodichloromethane	02.01.01
1,1,2,2-Tetrachloroethane	02.01.01
1,2-Dichloropropane	02.01.01
1,1,2-Trichloroethane	02.01.01
Benzene	02.01.01
Toluene	02.01.01
Ethylbenzene	02.01.01
Xylenes, Total	02.01.01
Total Organic Carbon (9060)	02.14.01
Ammonia (as N) (EPA/CE-81-1(3-140))	01.31.01

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10549-28	Dates Analyzed	

PARAMETER	10549-28
Acid & Base Neutral Extractables (8270)	
Naphthalene	02.02.01
2-Chloronaphthalene	02.02.01
Acenaphthylene	02.02.01
Acenaphthene	02.02.01
Fluorene	02.02.01
Hexachlorobenzene	02.02.01
Phenanthrene	02.02.01
Anthracene	02.02.01
Di-n-butylphthalate	02.02.01
Fluoranthene	02.02.01
Pyrene	02.02.01
bis(2-Ethylhexyl)phthalate	02.02.01
Chrysene	02.02.01
Benzo(a)anthracene	02.02.01
Benzo(b)fluoranthene	02.02.01
Benzo(k)fluoranthene	02.02.01
Benzo(a)pyrene	02.02.01
Indeno(1,2,3-cd)pyrene	02.02.01
Dibenzo(a,h)anthracene	02.02.01
Benzo(g,h,i)perylene	02.02.01
2-Chlorophenol	02.02.01
Phenol	02.02.01

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10549-28	Dates Analyzed	

PARAMETER	10549-28
2,4-Dimethylphenol	02.02.01
Pentachlorophenol	02.02.01
2-Methylphenol (o-Cresol)	02.02.01
2-Methylnaphthalene	02.02.01
2,4,5-Trichlorophenol.	02.02.01
Dibenzofuran	02.02.01
Carbazole	02.02.01
3-Methylphenol/4-Methylphenol (m&p-Cresol)	02.02.01
Tetrachlorophenols	02.02.01
Arsenic (6010)	02.02.01
Chromium (6010)	02.02.01
Copper (6010)	02.02.01

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10549-29	Method Blank	
10549-30	Practical Quantitation Limits	

PARAMETER	10549-29	10549-30
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/l	ND	0.010
2-Chloronaphthalene, mg/l	ND	0.010
Acenaphthylene, mg/l	ND	0.010
Acenaphthene, mg/l	ND	0.010
Fluorene, mg/l	ND	0.010
Hexachlorobenzene, mg/l	ND	0.010
Phenanthrene, mg/l	ND	0.010
Anthracene, mg/l	ND	0.010
Di-n-butylphthalate, mg/l	ND	0.010
Fluoranthene, mg/l	ND	0.010
Pyrene, mg/l	ND	0.010
bis(2-Ethylhexyl)phthalate, mg/l	ND	0.010
Chrysene, mg/l	ND	0.010
Benzo(a)anthracene, mg/l	ND	0.010
Benzo(b)fluoranthene, mg/l	ND	0.010
Benzo(k)fluoranthene, mg/l	ND	0.010
Benzo(a)pyrene, mg/l	ND	0.010
Indeno(1,2,3-cd)pyrene, mg/l	ND	0.010
Dibenzo(a,h)anthracene, mg/l	ND	0.010
Benzo(g,h,i)perylene, mg/l	ND	0.010
2-Chlorophenol, mg/l	ND	0.010

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10549-29	Method Blank	
10549-30	Practical Quantitation Limits	

PARAMETER	10549-29	10549-30
Phenol, mg/l	ND	0.010
2,4-Dimethylphenol, mg/l	ND	0.010
Pentachlorophenol, mg/l	ND	0.050
2-Methylphenol (o-Cresol), mg/l	ND	0.010
2-Methylnaphthalene, mg/l	ND	0.010
2,4,5-Trichlorophenol, mg/l	ND	0.010
Dibenzofuran, mg/l	ND	0.010
Carbazole, mg/l	ND	0.010
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	ND	0.010
Tetrachlorophenols, mg/l	ND	0.050
Dilution factor	1	1
Arsenic (6010), mg/l	ND	0.010
Chromium (6010), mg/l	ND	0.010
Copper (6010), mg/l	ND	0.020

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10549-29	Method Blank	
10549-30	Practical Quantitation Limits	

PARAMETER	10549-29	10549-30
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/l	ND	0.0050
Acetone, mg/l	ND	0.050
Chloroform, mg/l	ND	0.0050
2-Butanone (MEK), mg/l	ND	0.025
Bromodichloromethane, mg/l	ND	0.0050
1,1,2,2-Tetrachloroethane, mg/l	ND	0.0050
1,2-Dichloropropane, mg/l	ND	0.0050
1,1,2-Trichloroethane, mg/l	ND	0.0050
Benzene, mg/l	ND	0.0050
Toluene, mg/l	ND	0.0050
Ethylbenzene, mg/l	ND	0.0050
Xylenes, Total, mg/l	ND	0.010

SEVERN TRENT SERVICES
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5102 LaRoche Avenue • Savannah, GA 31404 • Tel: 912 354 7858 • Fax: 912 352 0165 • www.stl-inc.com

LOG NO: S1-10549
Received: 29 JAN 01
Reported: 15 FEB 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 155410215

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION ; QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10549-38	Method Detection Limit (MDL)	
10549-31	Accuracy (Mean % Rec)	

PARAMETER	10549-38	10549-31
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/l	0.00036	70 %
2-Chloronaphthalene, mg/l	0.00039	---
Acenaphthylene, mg/l	0.00033	94 %
Acenaphthene, mg/l	0.00025	88 %
Fluorene, mg/l	0.00038	92 %
Hexachlorobenzene, mg/l	0.00019	---
Phenanthrene, mg/l	0.00033	96 %
Anthracene, mg/l	0.00033	98 %
Di-n-butylphthalate, mg/l	0.00026	---
Fluoranthene, mg/l	0.00033	104 %
Pyrene, mg/l	0.00053	86 %
bis(2-Ethylhexyl)phthalate, mg/l	0.00048	---
Chrysene, mg/l	0.00044	90 %
Benzo(a)anthracene, mg/l	0.00030	94 %
Benzo(b)fluoranthene, mg/l	0.00028	86 %
Benzo(k)fluoranthene, mg/l	0.00072	89 %
Benzo(a)pyrene, mg/l	0.00041	86 %
Indeno(1,2,3-cd)pyrene, mg/l	0.00056	96 %
Dibenzo(a,h)anthracene, mg/l	0.00080	87 %
Benzo(g,h,i)perylene, mg/l	0.00068	---

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Project: WILMINGTON
Sampled By: Client
Code: 155410215

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10549-38	Method Detection Limit (MDL)	
10549-31	Accuracy (Mean % Rec)	

PARAMETER	10549-38	10549-31
2-Chlorophenol, mg/l	0.00024	83 %
Phenol, mg/l	0.00028	68 %
2,4-Dimethylphenol, mg/l	0.00039	94 %
Pentachlorophenol, mg/l	0.0040	70 %
2-Methylphenol (o-Cresol), mg/l	0.00029	80 %
2-Methylnaphthalene, mg/l	0.00033	---
2,4,5-Trichlorophenol, mg/l	0.00074	94 %
Dibenzofuran, mg/l	0.00029	---
Carbazole, mg/l	0.00054	96 %
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	0.00071	72 %
Tetrachlorophenols, mg/l	0.00061	96 %
Arsenic (6010), mg/l	0.0032	104 %
Chromium (6010), mg/l	0.0017	112 %
Copper (6010), mg/l	0.00090	110 %

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Project: WILMINGTON
Sampled By: Client
Code: 155410215

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10549-38	Method Detection Limit (MDL)	
10549-31	Accuracy (Mean % Rec)	

PARAMETER	10549-38	10549-31
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/l	0.00031	---
Acetone, mg/l	0.0099	---
Chloroform, mg/l	0.00090	---
2-Butanone (MEK), mg/l	0.011	---
Bromodichloromethane, mg/l	0.00035	---
1,1,2,2-Tetrachloroethane, mg/l	0.00075	---
1,2-Dichloropropane, mg/l	0.00052	---
1,1,2-Trichloroethane, mg/l	0.00047	---
Benzene, mg/l	0.00027	120 %
Toluene, mg/l	0.00051	121 %
Ethylbenzene, mg/l	0.00083	---
Xylenes, Total, mg/l	0.0019	---

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CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 155410215

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10549-32	Precision (%RPD)	
10549-33	Analyst Initials	

PARAMETER	10549-32	10549-33
Acid & Base Neutral Extractables (8270)		
Naphthalene	3 %	Kim Humphreys
Acenaphthylene	5 %	Kim Humphreys
Acenaphthene	3 %	Kim Humphreys
Fluorene	8 %	Kim Humphreys
Phenanthrene	3 %	Kim Humphreys
Anthracene	4 %	Kim Humphreys
Fluoranthene	12 %	Kim Humphreys
Pyrene	9 %	Kim Humphreys
Chrysene	4 %	Kim Humphreys
Benzo(a)anthracene	0 %	Kim Humphreys
Benzo(b)fluoranthene	4 %	Kim Humphreys
Benzo(k)fluoranthene	16 %	Kim Humphreys
Benzo(a)pyrene	8 %	Kim Humphreys
Indeno(1,2,3-cd)pyrene	5 %	Kim Humphreys
Dibenzo(a,h)anthracene	7 %	Kim Humphreys
2-Chlorophenol	2 %	Kim Humphreys
Phenol	9 %	Kim Humphreys
2,4-Dimethylphenol	1 %	Kim Humphreys
Pentachlorophenol	10 %	Kim Humphreys
2-Methylphenol (o-Cresol)	3 %	Kim Humphreys
2,4,5-Trichlorophenol	13 %	Kim Humphreys

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Project: WILMINGTON
Sampled By: Client
Code: 155410215

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10549-32	Precision (%RPD)	-
10549-33	Analyst Initials	

PARAMETER	10549-32	10549-33
Carbazole	8 %	Kim Humphreys
3-Methylphenol/4-Methylphenol (m&p-Cresol)	8 %	Kim Humphreys
Tetrachlorophenols	7 %	Kim Humphreys
2-Chloronaphthalene	---	Kim Humphreys
Hexachlorobenzene	---	Kim Humphreys
Di-n-butylphthalate	---	Kim Humphreys
bis(2-Ethylhexyl)phthalate	---	Kim Humphreys
Benzo(g,h,i)perylene	---	Kim Humphreys
2-Methylnaphthalene	---	Kim Humphreys
Dibenzofuran	---	Kim Humphreys
Arsenic (6010)	0.01 %	Susan Norwood
Chromium (6010)	1.4 %	Susan Norwood
Copper (6010)	1.0 %	Susan Norwood

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Project: WILMINGTON
Sampled By: Client
Code: 155410215

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10549-32	Precision (%RPD)	
10549-33	Analyst Initials	

PARAMETER	10549-32	10549-33
Volatiles by GC/MS (8260)		
Benzene	7 %	Paul Grimm
Toluene	2 %	Paul Grimm
Methylene chloride (Dichloromethane)	---	Paul Grimm
Acetone	---	Paul Grimm
Chloroform	---	Paul Grimm
2-Butanone (MEK)	---	Paul Grimm
Bromodichloromethane	---	Paul Grimm
1,1,2,2-Tetrachloroethane	---	Paul Grimm
1,2-Dichloropropane	---	Paul Grimm
1,1,2-Trichloroethane	---	Paul Grimm
Ethylbenzene	---	Paul Grimm
Xylenes, Total	---	Paul Grimm

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10549-34	EPA Method Numbers	
10549-35	Dates Extracted	

PARAMETER	10549-34	10549-35
Acid & Base Neutral Extractables (8270)		
Naphthalene	8270C	01.31.01
2-Chloronaphthalene	8270C	01.31.01
Acenaphthylene	8270C	01.31.01
Acenaphthene	8270C	01.31.01
Fluorene	8270C	01.31.01
Hexachlorobenzene	8270C	01.31.01
Phenanthrene	8270C	01.31.01
Anthracene	8270C	01.31.01
Di-n-butylphthalate	8270C	01.31.01
Fluoranthene	8270C	01.31.01
Pyrene	8270C	01.31.01
bis(2-Ethylhexyl)phthalate	8270C	01.31.01
Chrysene	8270C	01.31.01
Benzo(a)anthracene	8270C	01.31.01
Benzo(b)fluoranthene	8270C	01.31.01
Benzo(k)fluoranthene	8270C	01.31.01
Benzo(a)pyrene	8270C	01.31.01
Indeno(1,2,3-cd)pyrene	8270C	01.31.01
Dibenzo(a,h)anthracene	8270C	01.31.01
Benzo(g,h,i)perylene	8270C	01.31.01
2-Chlorophenol	8270C	01.31.01

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10549-34	EPA Method Numbers	
10549-35	Dates Extracted	

PARAMETER	10549-34	10549-35
Phenol	8270C	01.31.01
2,4-Dimethylphenol	8270C	01.31.01
Pentachlorophenol	8270C	01.31.01
2-Methylphenol (o-Cresol)	8270C	01.31.01
2-Methylnaphthalene	8270C	01.31.01
2,4,5-Trichlorophenol	8270C	01.31.01
Dibenzofuran	8270C	01.31.01
Carbazole	8270C	01.31.01
3-Methylphenol/4-Methylphenol (m&p-Cresol)	8270C	01.31.01
Tetrachlorophenols	8270C	01.31.01
Arsenic (6010)	6010	---
Chromium (6010)	6010	---
Copper (6010)	6010	---

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Sampled By: Client
Code: 155410215

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10549-34	EPA Method Numbers	
10549-35	Dates Extracted	

PARAMETER	10549-34	10549-35
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane)	8260	---
Acetone	8260	---
Chloroform	8260	---
2-Butanone (MEK)	8260	---
Bromodichloromethane	8260	---
1,1,2,2-Tetrachloroethane	8260	---
1,2-Dichloropropane	8260	---
1,1,2-Trichloroethane	8260	---
Benzene	8260	---
Toluene	8260	---
Ethylbenzene	8260	---
Xylenes, Total	8260	---

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Project: WILMINGTON
Sampled By: Client
Code: 155410215

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10549-36	Dates Analyzed	

PARAMETER	10549-36
Acid & Base Neutral Extractables (8270)	
Naphthalene	02.02.01
2-Chloronaphthalene	02.02.01
Acenaphthylene	02.02.01
Acenaphthene	02.02.01
Fluorene	02.02.01
Hexachlorobenzene	02.02.01
Phenanthrene	02.02.01
Anthracene	02.02.01
Di-n-butylphthalate	02.02.01
Fluoranthene	02.02.01
Pyrene	02.02.01
bis(2-Ethylhexyl)phthalate	02.02.01
Chrysene	02.02.01
Benzo(a)anthracene	02.02.01
Benzo(b)fluoranthene	02.02.01
Benzo(k)fluoranthene	02.02.01
Benzo(a)pyrene	02.02.01
Indeno(1,2,3-cd)pyrene	02.02.01
Dibenzo(a,h)anthracene	02.02.01
Benzo(g,h,i)perylene	02.02.01
2-Chlorophenol	02.02.01
Phenol	02.02.01

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Project: WILMINGTON
Sampled By: Client
Code: 155410215

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10549-36	Dates Analyzed	

PARAMETER	10549-36
2,4-Dimethylphenol	02.02.01
Pentachlorophenol	02.02.01
2-Methylphenol (o-Cresol)	02.02.01
2-Methylnaphthalene	02.02.01
2,4,5-Trichlorophenol	02.02.01
Dibenzofuran	02.02.01
Carbazole	02.02.01
3-Methylphenol/4-Methylphenol (m&p-Cresol)	02.02.01
Tetrachlorophenols	02.02.01
Arsenic (6010)	02.03.01
Chromium (6010)	02.03.01
Copper (6010)	02.03.01

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10549-36	Dates Analyzed	

PARAMETER	10549-36
Volatiles by GC/MS (8260)	
Methylene chloride (Dichloromethane)	02.01.01
Acetone	02.01.01
Chloroform	02.01.01
2-Butanone (MEK)	02.01.01
Bromodichloromethane	02.01.01
1,1,2,2-Tetrachloroethane	02.01.01
1,2-Dichloropropane	02.01.01
1,1,2-Trichloroethane	02.01.01
Benzene	02.01.01
Toluene	02.01.01
Ethylbenzene	02.01.01
Xylenes, Total	02.01.01

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.
Lab Manager - Henry Beauchamp
Methods: EPA SW-846 ND = Not Detected

Gloria D. Fulwood

Gloria D. Fulwood, Project Manager

Final Page Of Report

Serial Number 003450

SEVERN TRENT SERVICES

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Severn Trent Laboratories, Inc.

- [x] 5102 LaRoche Avenue, Savannah, GA 31404 — Phone: (912) 354-7858 — Fax: (912) 352-0165
- [ ] 2846 Industrial Plaza Drive, Tallahassee, FL 32301 — Phone: (850) 878-3994 — Fax: (850) 878-9504
- [ ] 900 Lakeside Drive, Mobile, AL 36693 — Phone: (334) 666-6633 — Fax: (334) 666-6696
- [ ] 6712 Benjamin Road, Suite 100, Tampa, FL 33634 — Phone: (813) 885-7427 — Fax: (813) 885-7049

PROJECT REFERENCE: SWP-Wilmington	PROJECT NO.: 979007.A0-27	PROJECT LOCATION (STATE): NC
STL (LAB) PROJECT MANAGER: G. Falwood	P.O. NUMBER:	CONTRACT NO.:
CLIENT (SITE): Southern Wood Piedmont	CLIENT PHONE: 864-599-1070	CLIENT FAX: 864-599-1087
CLIENT NAME: Bill Arrants	CLIENT E-MAIL: william.arrants@rayonier.com	
CLIENT ADDRESS: P.O. Box 5447 Spartanburg, SC 29304		
COMPANY CONTRACTING THIS WORK (if applicable): Schnabel Engineering - Greg Kuntz		

PAGE 1 OF 2

STANDARD REPORT DELIVERY [x] DATE DUE ____

EXPEDITED REPORT DELIVERY (SURCHARGE) [ ] DATE DUE ____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: Solid	MATRIX: Liquid	VOC-Soil (EnCore)	VOC-Soil (Bulk)	TOC/Ammonia-Soil	SVOC-Soil	As/Cr/Cu-Soil			SVOC-Liquid	As/Cr/Cu-Liquid	VOC-8260-Liquid	REMARKS
					PRESERVATIVE									✓	
					NUMBER CONTAINERS SUBMITTED										
1/25/01	7:30	SD-13 SWP Log # 17417	X				1								
	7:50	SD-24 17418			3	1	1	1	1						
	8:30	SD-23 17419			3	1	1	1	1						
	8:50	SD-05 17420					1								
	9:30	SD-41 17421			3	1	1	1	1						
	9:55	SD-38 17422			3	1	1	1	1						
	10:40	SD-36 17423			3	1	1	1	1						
	11:00	SD-37 17424			3	1	1	1	1						
	11:25	SD-14 17425					1								
	12:10	SD-19 17426					1								
	13:00	Equip 12501 -----		X								2	1	2	
	13:20	SD-18 17427	X				1								
	13:20	SD-18-Dup -----	X				1								

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Gregory B. Kuntz	1/26/01	11:00			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
EMPTY CONTAINERS								

LABORATORY USE ONLY

RECEIVED FOR LABORATORY USE BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT: YES / NO	CUSTODY SEAL NO.	STL SL LOG NO.	LABORATORY REMARKS
[illegible]	1/29/01	835			SL-10549	1-Analyze VOC from bulk per S. Watson 1-31-01 G. Fulwood

Serial Number UU3459

SEVERN TRENT SERVICES

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Severn Trent Laboratories, Inc.

- [x] 5102 LaRoche Avenue, Savannah, GA 31404 — Phone: (912) 354-7858 — Fax: (912) 352-0165
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- [ ] 6712 Benjamin Road, Suite 100, Tampa, FL 33634 — Phone: (813) 885-7427 — Fax: (813) 885-7049

PROJECT REFERENCE: SWP-Wilmington	PROJECT NO.: 979007.A0-27	PROJECT LOCATION (STATE): NC
STL (LAB) PROJECT MANAGER: G. Fulwood	P.O. NUMBER:	CONTRACT NO.:
CLIENT (SITE): Southern Wood Piedmont	CLIENT PHONE: 864-599-1070	CLIENT FAX: 864-599-1087
CLIENT NAME: Bill Arrants	CLIENT E-MAIL: william.arrants@rayonier.com	
CLIENT ADDRESS: P.O. Box 5447 Spartanburg, SC 29304		
COMPANY CONTRACTING THIS WORK (if applicable): Schnabel Engineering - Greg Kuntz		

PAGE 2 OF 2

STANDARD REPORT DELIVERY [x]

DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE) [ ]

DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: Solid	Liquid (GBK)	Liquid		VOC-Soil (Encore)	VOC-Soil (Bulk)	TOC/Ammonia-Soil	SVOC-Soil	As/Cr/Cu-Soil		VOC-8260-Liquid	~~SVOC-Liquid~~ (GBK)	~~As/Cr/Cu-Liquid~~ (GBK)	~~VOC-8260-Liquid~~ (GBK)	REMARKS
							PRESERVATIVE										
1/25/01	13:45	SD-17 SWP Log # 17428	X						1								*No TOC/Ammonia
	14:05	SD-16 17429							1								on SD-48
	14:30	SD-15 17430							1								
	15:20	SD-48 17431					3	1	1*	1	1						
		$															
1/10/01		Trip 11001 -----			X								2				
1/18/01		Trip 11801 -----											2				
1/23/01		Trip 12301 -----											2				

NUMBER CONTAINERS SUBMITTED

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Gregory B. Kuntz	1/26/01	11:00			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
EMPTY CONTAINERS								

LABORATORY USE ONLY

RECEIVED FOR LABORATORY USE BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT: YES / NO	CUSTODY SEAL NO.	STL SL LOG NO.	LABORATORY REMARKS
K. Conner	7/29/01	835			S1-10549	*Analyze VOC from bulk per S. Watson 1/31/01 G. Fulwood

FedEx. *USA Airbill* FedEx Tracking Number 824136804927

Kinko's I.D. No. 0215 **Sender's Copy**

1 From *Please print and press hard.*

Date 2-19-01 Sender's FedEx Account Number 2181-1829-1

Sender's Name Danny Rawl Phone (803) 796-6240

Company SCHNABEL ENGINEERING ASSOC

Address 104 CORPORATE BLVD STE 420 Dept./Floor/Suite/Room

City WEST COLUMBIA State SC ZIP 29169

2 Your Internal Billing Reference First 24 characters will appear on invoice. 979007.A0-27

3 To

Recipient's Name Gloria Fulwood Phone (912) 354-7858

Company Severn TRent Lab

Address 5102 LaRoche Avenue

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

City Savannah State GA. ZIP 31404

Peel and Stick FedEx USA Airbill

See back for application instructions.

Questions? Call 1·800·Go·FedEx* (800-463-3339)

Visit our Web site at www.fedex.com

By using this Airbill you agree to the service conditions on the back of this Airbill and in our current Service Guide, including terms that limit our liability.

4a Express Package Service *Packages up to 150 lbs.* Delivery commitment may be later in some areas.

- [X] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

* FedEx Envelope/Letter Rate not available. Minimum charge: One-pound rate

4b Express Freight Service *Packages over 150 lbs.* Delivery commitment may be later in some areas.

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation: _____

5 Packaging * Declared value limit $500

- [ ] FedEx Envelope/Letter*
- [ ] FedEx Pak*
- [X] Other Pkg. — Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling — Include FedEx address in Section 3.

- [ ] SATURDAY Delivery — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] SUNDAY Delivery — Available for FedEx Priority Overnight to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available with FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Dangerous Goods cannot be shipped in FedEx packaging.

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [X] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

FedEx Acct. No / Credit Card No. _____ Exp. Date _____

Total Packages	Total Weight	Total Declared Value†
1	19	$ .00

†Our liability is limited to $100 unless you declare a higher value. See back for details.

FedEx Use Only

8 Release Signature *Sign to authorize delivery without obtaining signature.*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

402

PULL AND RETAIN THIS COPY BEFORE AFFIXING TO THE PACKAGE.

0156788856

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SEVERN TRENT SERVICES

STL Savannah

LOG NO: S1-10975
Received: 20 FEB 01
Reported: 05 MAR 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 15541035

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10975-1	SD-39 (#17576)	02-19-01/15:30

PARAMETER	10975-1
Volatiles by GC/MS (8260)	
Methylene chloride (Dichloromethane), mg/kg dw	ND
Acetone, mg/kg dw	ND
Chloroform, mg/kg dw	ND
2-Butanone (MEK), mg/kg dw	ND
Bromodichloromethane, mg/kg dw	ND
1,1,2,2-Tetrachloroethane, mg/kg dw	ND
1,2-Dichloropropane, mg/kg dw	ND
1,1,2-Trichloroethane, mg/kg dw	ND
Benzene, mg/kg dw	ND
Toluene, mg/kg dw	ND
Ethylbenzene, mg/kg dw	ND
Xylenes, Total, mg/kg dw	ND
Total Organic Carbon (9060), mg/kg dw	390000
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	2.4B

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10975-1	SD-39 (#17576)	02-19-01/15:30

PARAMETER	10975-1
Acid & Base Neutral Extractables (8270)	
Naphthalene, mg/kg dw	ND
2-Chloronaphthalene, mg/kg dw	ND
Acenaphthylene, mg/kg dw	ND
Acenaphthene, mg/kg dw	ND
Fluorene, mg/kg dw	ND
Hexachlorobenzene, mg/kg dw	ND
Phenanthrene, mg/kg dw	ND
Anthracene, mg/kg dw	ND
Di-n-butylphthalate, mg/kg dw	ND
Fluoranthene, mg/kg dw	ND
Pyrene, mg/kg dw	ND
bis(2-Ethylhexyl)phthalate, mg/kg dw	ND
Chrysene, mg/kg dw	ND
Benzo(a)anthracene, mg/kg dw	ND
Benzo(b)fluoranthene, mg/kg dw	ND
Benzo(k)fluoranthene, mg/kg dw	ND
Benzo(a)pyrene, mg/kg dw	ND
Indeno(1,2,3-cd)pyrene, mg/kg dw	ND
Dibenzo(a,h)anthracene, mg/kg dw	ND
Benzo(g,h,i)perylene, mg/kg dw	ND
2-Chlorophenol, mg/kg dw	ND
Phenol, mg/kg dw	ND

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
10975-1	SD-39 (#17576)	02-19-01/15:30

PARAMETER	10975-1
2,4-Dimethylphenol, mg/kg dw	ND
Pentachlorophenol, mg/kg dw	ND
2-Methylphenol (o-Cresol), mg/kg dw	ND
2-Methylnaphthalene, mg/kg dw	ND
2,4,5-Trichlorophenol, mg/kg dw	ND
Dibenzofuran, mg/kg dw	ND
Carbazole, mg/kg dw	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/kg dw	ND
Tetrachlorophenols, mg/kg dw	ND
Dilution factor	1
Arsenic (6010), mg/kg dw	5.2
Chromium (6010), mg/kg dw	5.1
Copper (6010), mg/kg dw	5.1B
Percent Solids	20

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10975-2	Method Blank	
10975-3	Practical Quantitation Limits	

PARAMETER	10975-2	10975-3
Total Organic Carbon (9060), mg/kg dw	ND	500
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	ND	0.50

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10975-2	Method Blank	
10975-3	Practical Quantitation Limits	

PARAMETER	10975-2	10975-3
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/kg dw	ND	0.33
2-Chloronaphthalene, mg/kg dw	ND	0.33
Acenaphthylene, mg/kg dw	ND	0.33
Acenaphthene, mg/kg dw	ND	0.33
Fluorene, mg/kg dw	ND	0.33
Hexachlorobenzene, mg/kg dw	ND	0.33
Phenanthrene, mg/kg dw	ND	0.33
Anthracene, mg/kg dw	ND	0.33
Di-n-butylphthalate, mg/kg dw	ND	0.33
Fluoranthene, mg/kg dw	ND	0.33
Pyrene, mg/kg dw	ND	0.33
bis(2-Ethylhexyl)phthalate, mg/kg dw	ND	0.33
Chrysene, mg/kg dw	ND	0.33
Benzo(a)anthracene, mg/kg dw	ND	0.33
Benzo(b)fluoranthene, mg/kg dw	ND	0.33
Benzo(k)fluoranthene, mg/kg dw	ND	0.33
Benzo(a)pyrene, mg/kg dw	ND	0.33
Indeno(1,2,3-cd)pyrene, mg/kg dw	ND	0.33
Dibenzo(a,h)anthracene, mg/kg dw	ND	0.33
Benzo(g,h,i)perylene, mg/kg dw	ND	0.33
2-Chlorophenol, mg/kg dw	ND	0.33

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10975-2	Method Blank	
10975-3	Practical Quantitation Limits	

PARAMETER	10975-2	10975-3
Phenol, mg/kg dw	ND	0.33
2,4-Dimethylphenol, mg/kg dw	ND	0.33
Pentachlorophenol, mg/kg dw	ND	1.7
2-Methylphenol (o-Cresol), mg/kg dw	ND	0.33
2-Methylnaphthalene, mg/kg dw	ND	0.33
2,4,5-Trichlorophenol, mg/kg dw	ND	0.33
Dibenzofuran, mg/kg dw	ND	0.33
Carbazole, mg/kg dw	ND	0.33
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/kg dw	ND	0.33
Tetrachlorophenols, mg/kg dw	ND	0.33
Dilution factor	1	1
Arsenic (6010), mg/kg dw	ND	1.0
Chromium (6010), mg/kg dw	ND	1.0
Copper (6010), mg/kg dw	ND	2.0

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10975-2	Method Blank	
10975-3	Practical Quantitation Limits	

PARAMETER	10975-2	10975-3
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/kg dw	ND	0.0050
Acetone, mg/kg dw	ND	0.050
Chloroform, mg/kg dw	ND	0.0050
2-Butanone (MEK), mg/kg dw	ND	0.025
Bromodichloromethane, mg/kg dw	ND	0.0050
1,1,2,2-Tetrachloroethane, mg/kg dw	ND	0.0050
1,2-Dichloropropane, mg/kg dw	ND	0.0050
1,1,2-Trichloroethane, mg/kg dw	ND	0.0050
Benzene, mg/kg dw	ND	0.0050
Toluene, mg/kg dw	ND	0.0050
Ethylbenzene, mg/kg dw	ND	0.0050
Xylenes, Total, mg/kg dw	ND	0.010

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10975-4	Method Detection Limit (MDL)	
10975-5	Accuracy (mean % recovery)	

PARAMETER	10975-4	10975-5
Total Organic Carbon (9060), mg/kg dw	150	86 %
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	0.075	112 %

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Code: 15541035

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10975-4	Method Detection Limit (MDL)	
10975-5	Accuracy (mean % recovery)	

PARAMETER	10975-4	10975-5
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/kg	0.025	66 %
2-Chloronaphthalene, mg/kg	0.024	---
Acenaphthylene, mg/kg	0.021	74 %
Acenaphthene, mg/kg	0.029	70 %
Fluorene, mg/kg	0.031	73 %
Hexachlorobenzene, mg/kg	0.045	---
Phenanthrene, mg/kg	0.017	76 %
Anthracene, mg/kg	0.021	76 %
Di-n-butylphthalate, mg/kg	0.028	---
Fluoranthene, mg/kg	0.031	80 %
Pyrene, mg/kg	0.063	91 %
bis(2-Ethylhexyl)phthalate, mg/kg	0.045	---
Chrysene, mg/kg	0.021	82 %
Benzo(a)anthracene, mg/kg	0.020	82 %
Benzo(b)fluoranthene, mg/kg	0.023	76 %
Benzo(k)fluoranthene, mg/kg	0.026	102 %
Benzo(a)pyrene, mg/kg	0.029	78 %
Indeno(1,2,3-cd)pyrene, mg/kg	0.067	79 %
Dibenzo(a,h)anthracene, mg/kg	0.052	76 %
Benzo(g,h,i)perylene, mg/kg	0.026	---
2-Chlorophenol, mg/kg	0.032	67 %

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LOG NO: S1-10975
Received: 20 FEB 01
Reported: 05 MAR 01

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P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 16011035

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10975-4	Method Detection Limit (MDL)	
10975-5	Accuracy (mean % recovery)	

PARAMETER	10975-4	10975-5
Phenol, mg/kg	0.042	62 %
2,4-Dimethylphenol, mg/kg	0.028	82 %
Pentachlorophenol, mg/kg	0.180	56 %
2-Methylphenol (o-Cresol), mg/kg	0.032	72 %
2-Methylnaphthalene, mg/kg	0.032	---
2,4,5-Trichlorophenol, mg/kg	0.029	---
Dibenzofuran, mg/kg	0.030	---
Carbazole, mg/kg	0.022	73 %
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/kg	0.042	62 %
Tetrachlorophenols, mg/kg	0.061	61 %
Arsenic (6010), mg/kg dw	0.45	98 %
Chromium (6010), mg/kg dw	0.17	104 %
Copper (6010), mg/kg dw	0.72	106 %

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Spartanburg, SC 29304

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Code: 15541035

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10975-4	Method Detection Limit (MDL)	
10975-5	Accuracy (mean % recovery)	

PARAMETER	10975-4	10975-5
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/kg dw	0.0014	---
Acetone, mg/kg dw	0.0036	---
Chloroform, mg/kg dw	0.0017	---
2-Butanone (MEK), mg/kg dw	0.0033	---
Bromodichloromethane, mg/kg dw	0.00088	---
1,1,2,2-Tetrachloroethane, mg/kg dw	0.0010	---
1,2-Dichloropropane, mg/kg dw	0.0014	---
1,1,2-Trichloroethane, mg/kg dw	0.00096	---
Benzene, mg/kg dw	0.0017	103 %
Toluene, mg/kg dw	0.0018	105 %
Ethylbenzene, mg/kg dw	0.0020	---
Xylenes, Total, mg/kg dw	0.0030	---

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SEVERN TRENT SERVICES

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10975-6	Precision (% RPD)	
10975-7	Analyst Initials	

PARAMETER	10975-6	10975-7
Total Organic Carbon (9060)	0.30 %	Rob Davis
Ammonia (as N) (EPA/CE-81-1(3-140))	3.0 %	Rob Davis

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10975-6	Precision (% RPD)	-
10975-7	Analyst Initials	

PARAMETER	10975-6	10975-7
Acid & Base Neutral Extractables (8270)		
Naphthalene	5 %	Kim Humphreys
Acenaphthylene	4 %	Kim Humphreys
Acenaphthene	0 %	Kim Humphreys
Fluorene	8 %	Kim Humphreys
Phenanthrene	8 %	Kim Humphreys
Anthracene	8 %	Kim Humphreys
Fluoranthene	4 %	Kim Humphreys
Pyrene	7 %	Kim Humphreys
Chrysene	7 %	Kim Humphreys
Benzo(a)anthracene	7 %	Kim Humphreys
Benzo(b)fluoranthene	0 %	Kim Humphreys
Benzo(k)fluoranthene	15 %	Kim Humphreys
Benzo(a)pyrene	4 %	Kim Humphreys
Indeno(1,2,3-cd)pyrene	8 %	Kim Humphreys
Dibenzo(a,h)anthracene	8 %	Kim Humphreys
2-Chlorophenol	0 %	Kim Humphreys
Phenol	5 %	Kim Humphreys
2,4-Dimethylphenol	7 %	Kim Humphreys
Pentachlorophenol	5 %	Kim Humphreys
2-Methylphenol (o-Cresol)	4 %	Kim Humphreys
Carbazole	8 %	Kim Humphreys

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10975-6	Precision (% RPD)	
10975-7	Analyst Initials	

PARAMETER	10975-6	10975-7
3-Methylphenol/4-Methylphenol (m&p-Cresol)	5 %	Kim Humphreys
Tetrachlorophenols	0 %	Kim Humphreys
2-Chloronaphthalene	---	Kim Humphreys
Hexachlorobenzene	---	Kim Humphreys
Di-n-butylphthalate	---	Kim Humphreys
bis(2-Ethylhexyl)phthalate	---	Kim Humphreys
Benzo(g,h,i)perylene	---	Kim Humphreys
2-Methylnaphthalene	---	Kim Humphreys
2,4,5-Trichlorophenol	---	Kim Humphreys
Dibenzofuran	---	Kim Humphreys
Arsenic (6010)	0.86 %	Susan Norwood
Chromium (6010)	0.98 %	Susan Norwood
Copper (6010)	0.94 %	Susan Norwood

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10975-6	Precision (% RPD) -	
10975-7	Analyst Initials	

PARAMETER	10975-6	10975-7
Volatiles by GC/MS (8260)		
Benzene	6 %	Paul Grimm
Toluene	2 %	Paul Grimm
Methylene chloride (Dichloromethane)	---	Paul Grimm
Acetone	---	Paul Grimm
Chloroform	---	Paul Grimm
2-Butanone (MEK)	---	Paul Grimm
Bromodichloromethane	---	Paul Grimm
1,1,2,2-Tetrachloroethane	---	Paul Grimm
1,2-Dichloropropane	---	Paul Grimm
1,1,2-Trichloroethane	---	Paul Grimm
Ethylbenzene	---	Paul Grimm
Xylenes, Total	---	Paul Grimm

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STL Savannah
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LOG NO: S1-10975
Received: 20 FEB 01
Reported: 05 MAR 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 15541035

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10975-8	EPA Method Numbers	
10975-9	Dates Extracted	

PARAMETER	10975-8	10975-9
Total Organic Carbon (9060)	9060	02.22.01
Ammonia (as N) (EPA/CE-81-1(3-140))	350.1	02.28.01

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Project: WILMINGTON
Sampled By: Client
Code: 15541035

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10975-8	EPA Method Numbers	
10975-9	Dates Extracted	

PARAMETER	10975-8	10975-9
Acid & Base Neutral Extractables (8270)		
Naphthalene	8270C	02.23.01
2-Chloronaphthalene	8270C	02.23.01
Acenaphthylene	8270C	02.23.01
Acenaphthene	8270C	02.23.01
Fluorene	8270C	02.23.01
Hexachlorobenzene	8270C	02.23.01
Phenanthrene	8270C	02.23.01
Anthracene	8270C	02.23.01
Di-n-butylphthalate	8270C	02.23.01
Fluoranthene	8270C	02.23.01
Pyrene	8270C	02.23.01
bis(2-Ethylhexyl)phthalate	8270C	02.23.01
Chrysene	8270C	02.23.01
Benzo(a)anthracene	8270C	02.23.01
Benzo(b)fluoranthene	8270C	02.23.01
Benzo(k)fluoranthene	8270C	02.23.01
Benzo(a)pyrene	8270C	02.23.01
Indeno(1,2,3-cd)pyrene	8270C	02.23.01
Dibenzo(a,h)anthracene	8270C	02.23.01
Benzo(g,h,i)perylene	8270C	02.23.01
2-Chlorophenol	8270C	02.23.01

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Project: WILMINGTON
Sampled By: Client
Code: 15541035

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10975-8	EPA Method Numbers	
10975-9	Dates Extracted	

PARAMETER	10975-8	10975-9
Phenol	8270C	02.23.01
2,4-Dimethylphenol	8270C	02.23.01
Pentachlorophenol	8270C	02.23.01
2-Methylphenol (o-Cresol)	8270C	02.23.01
2-Methylnaphthalene	8270C	02.23.01
2,4,5-Trichlorophenol	8270C	02.23.01
Dibenzofuran	8270C	02.23.01
Carbazole	8270C	02.23.01
3-Methylphenol/4-Methylphenol (m&p-Cresol)	8270C	02.23.01
Tetrachlorophenols	8270C	02.23.01
Arsenic (6010)	6010	---
Chromium (6010)	6010	---
Copper (6010)	6010	---

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LOG NO: S1-10975
Received: 20 FEB 01
Reported: 05 MAR 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 16011035

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10975-8	EPA Method Numbers	
10975-9	Dates Extracted	

PARAMETER	10975-8	10975-9
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane)	8260	---
Acetone	8260	---
Chloroform	8260	---
2-Butanone (MEK)	8260	---
Bromodichloromethane	8260	---
1,1,2,2-Tetrachloroethane	8260	---
1,2-Dichloropropane	8260	---
1,1,2-Trichloroethane	8260	---
Benzene	8260	---
Toluene	8260	---
Ethylbenzene	8260	---
Xylenes, Total	8260	---

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Received: 20 FEB 01
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Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 15541035

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10975-10	Dates Analyzed	

PARAMETER	10975-10
Total Organic Carbon (9060)	02.23.01
Ammonia (as N) (EPA/CE-81-1(3-140))	03.02.01

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STL Savannah

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CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 15541035

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10975-10	Dates Analyzed	

PARAMETER	10975-10
Acid & Base Neutral Extractables (8270)	
Naphthalene	03.02.01
2-Chloronaphthalene	03.02.01
Acenaphthylene	03.02.01
Acenaphthene	03.02.01
Fluorene	03.02.01
Hexachlorobenzene	03.02.01
Phenanthrene	03.02.01
Anthracene	03.02.01
Di-n-butylphthalate	03.02.01
Fluoranthene	03.02.01
Pyrene	03.02.01
bis(2-Ethylhexyl)phthalate	03.02.01
Chrysene	03.02.01
Benzo(a)anthracene	03.02.01
Benzo(b)fluoranthene	03.02.01
Benzo(k)fluoranthene	03.02.01
Benzo(a)pyrene	03.02.01
Indeno(1,2,3-cd)pyrene	03.02.01
Dibenzo(a,h)anthracene	03.02.01
Benzo(g,h,i)perylene	03.02.01
2-Chlorophenol	03.02.01
Phenol	03.02.01

SEVERN TRENT SERVICES

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Sampled By: Client
Code: 15541035

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10975-10	Dates Analyzed	

PARAMETER	10975-10
2,4-Dimethylphenol	03.02.01
Pentachlorophenol	03.02.01
2-Methylphenol (o-Cresol)	03.02.01
2-Methylnaphthalene	03.02.01
2,4,5-Trichlorophenol	03.02.01
Dibenzofuran	03.02.01
Carbazole	03.02.01
3-Methylphenol/4-Methylphenol (m&p-Cresol)	03.02.01
Tetrachlorophenols	03.02.01
Arsenic (6010)	02.23.01
Chromium (6010)	02.23.01
Copper (6010)	02.23.01

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Project: WILMINGTON
Sampled By: Client
Code: 15541035

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
10975-10	Dates Analyzed	

PARAMETER	10975-10
Volatiles by GC/MS (8260)	
Methylene chloride (Dichloromethane)	02.23.01
Acetone	02.23.01
Chloroform	02.23.01
2-Butanone (MEK)	02.23.01
Bromodichloromethane	02.23.01
1,1,2,2-Tetrachloroethane	02.23.01
1,2-Dichloropropane	02.23.01
1,1,2-Trichloroethane	02.23.01
Benzene	02.23.01
Toluene	02.23.01
Ethylbenzene	02.23.01
Xylenes, Total	02.23.01

Methods: EPA SW-846 ND = Not Detected

Gloria D. Fulwood

Gloria D. Fulwood, Project Manager

Final Page Of Report

Severn Trent Labs ATTN: Gloria Fulwood

~~PARADIGM ANALYTICAL LABORATORIES, INC.~~
~~2627 Northchase Parkway SE, Wilmington, NC 28405~~
~~Phone: (910)-350-1903 FAX: (910)-350-1557~~

COC# 214[illegible]3

Chain-of Custody Record & Analytical Request

Page 1 of 1

Client: SWP - Wilmington N.C. Project ID: 979007.A0-29 Date: 2-19-01 Report To:
Address: P.O. Box 5447 Contact: Bill Arrants Turnaround:
Address: Spartanburg, S.C. 29304 Phone: 864-599-1070 Job Number:
Quote #: Fax: 864-599-1087 P.O. Number: Invoice To:

Sample ID	Date	Time	Matrix	Preservatives				Analyses: VOC - Soils (EnCore)	VOC - Soil Bulk	TOC/Ammonia Soil	5 VOC Soil	Asicelcy Soil					Comments: Please specify any special reporting requirements
SD-39	2-19-01	1530	Soil					3	1	1	1	1					SWP Log # 17576

Relinquished By	Date	Time	Received By	Date	Time	Temperature	State Certification Requested
Danny Rawl	2-19-01	1700	F. Swafford	2/20/01	8:36	4.3°C	NC ____ SC ____ Other ____
					5110975		SEE REVERSE FOR TERMS AND CONDITIONS

ORIGINAL

FedEx. USA Airbill FedEx Tracking Number 824136805132

5NA41

Form ID No. 0215 Sender's Copy

1 From *Please print and press hard.*

Date 3/22/01 Sender's FedEx Account Number 2181-1829-1

Sender's Name Greg Kuntz Phone (803) 796-6240

Company SCHNABEL ENGINEERING ASSOC

Address 104 CORPORATE BLVD STE 420 Dept./Floor/Suite/Room

City WEST COLUMBIA State SC ZIP 29169

2 Your Internal Billing Reference First 24 characters will appear on invoice.

3 To

Recipient's Name Gloria Fulwood Phone (912) 354-7858

Company Severn Trent Services

Address 5102 LaRoche Ave

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

City Savannah State GA ZIP 31404

Peel and Stick FedEx USA Airbill

See back for application instructions.

Questions? Call 1·800·Go·FedEx* (800-463-3339)

Visit our Web site at www.fedex.com

By using this Airbill you agree to the service conditions on the back of this Airbill and in our current Service Guide, including terms that limit our liability.

4a Express Package Service *Packages up to 150 lbs.* Delivery commitment may be later in some areas.

- [X] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

* FedEx Envelope/Letter Rate not available. Minimum charge: One-pound rate

4b Express Freight Service *Packages over 150 lbs.* Delivery commitment may be later in some areas.

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation: _____

5 Packaging * Declared value limit $500

- [ ] FedEx Envelope/Letter*
- [ ] FedEx Pak*
- [X] Other Pkg. — Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling — Include FedEx address in Section 3.

- [ ] SATURDAY Delivery — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] SUNDAY Delivery — Available for FedEx Priority Overnight to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available with FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [ ] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous Goods cannot be shipped in FedEx packaging.

- [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

FedEx Acct. No. / Credit Card No. Exp. Date

Total Packages	Total Weight	Total Declared Value†
		$ .00

†Our liability is limited to $100 unless you declare a higher value. See back for details.

FedEx Use Only

8 Release Signature *Sign to authorize delivery without obtaining signature.*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

402

SEVERN TRENT SERVICES
STL Savannah
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LOG NO: S1-11760
Received: 23 MAR 01
Reported: 10 APR 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 145510411

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
11760-1	SD-40 (#17696)	03-22-01/15:15
11760-2	SD-40 DUP	03-22-01/15:15

PARAMETER	11760-1	11760-2
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/kg dw	ND	ND
Acetone, mg/kg dw	0.019J	0.021J
Chloroform, mg/kg dw	ND	ND
2-Butanone (MEK), mg/kg dw	ND	ND
Bromodichloromethane, mg/kg dw	ND	ND
1,1,2,2-Tetrachloroethane, mg/kg dw	ND	ND
1,2-Dichloropropane, mg/kg dw	ND	ND
1,1,2-Trichloroethane, mg/kg dw	ND	ND
Benzene, mg/kg dw	ND	ND
Toluene, mg/kg dw	ND	ND
Ethylbenzene, mg/kg dw	ND	ND
Xylenes, Total, mg/kg dw	ND	ND
Total Organic Carbon (9060), mg/kg dw	3300	2400
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	0.73	ND

SEVERN TRENT SERVICES
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
11760-1	SD-40 (#17696)	03-22-01/15:15
11760-2	SD-40 DUP	03-22-01/15:15

PARAMETER	11760-1	11760-2
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/kg dw	ND	ND
2-Chloronaphthalene, mg/kg dw	ND	ND
Acenaphthylene, mg/kg dw	ND	ND
Acenaphthene, mg/kg dw	ND	ND
Fluorene, mg/kg dw	ND	ND
Hexachlorobenzene, mg/kg dw	ND	ND
Phenanthrene, mg/kg dw	ND	ND
Anthracene, mg/kg dw	ND	ND
Di-n-butylphthalate, mg/kg dw	ND	0.058J
Fluoranthene, mg/kg dw	ND	ND
Pyrene, mg/kg dw	ND	ND
bis(2-Ethylhexyl)phthalate, mg/kg dw	ND	ND
Chrysene, mg/kg dw	0.096J	0.042J
Benzo(a)anthracene, mg/kg dw	0.088J	0.048J
Benzo(b)fluoranthene, mg/kg dw	0.053J	0.031J
Benzo(k)fluoranthene, mg/kg dw	0.064J	0.052J
Benzo(a)pyrene, mg/kg dw	0.052J	0.038J
Indeno(1,2,3-cd)pyrene, mg/kg dw	ND	ND
Dibenzo(a,h)anthracene, mg/kg dw	ND	ND
Benzo(g,h,i)perylene, mg/kg dw	0.046J	ND
2-Chlorophenol, mg/kg dw	ND	ND

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CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 145510411

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
11760-1	SD-40 (#17696)	03-22-01/15:15
11760-2	SD-40 DUP	03-22-01/15:15

PARAMETER	11760-1	11760-2
Phenol, mg/kg dw	ND	ND
2,4-Dimethylphenol, mg/kg dw	ND	ND
Pentachlorophenol, mg/kg dw	ND	ND
2-Methylphenol (o-Cresol), mg/kg dw	ND	ND
2-Methylnaphthalene, mg/kg dw	ND	ND
2,4,5-Trichlorophenol, mg/kg dw	ND	ND
Dibenzofuran, mg/kg dw	ND	ND
Carbazole, mg/kg dw	ND	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/kg dw	ND	ND
Tetrachlorophenols, mg/kg dw	ND	ND
Dilution factor	1	1
Arsenic (6010), mg/kg dw	ND	ND
Chromium (6010), mg/kg dw	0.92B	0.93B
Copper (6010), mg/kg dw	ND	ND
Percent Solids	82	80

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P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 145510411

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
11760-3	Method Blank	
11760-4	Practical Quantitation Limits	

PARAMETER	11760-3	11760-4
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/kg dw	ND	0.005
Acetone, mg/kg dw	ND	0.050
Chloroform, mg/kg dw	ND	0.005
2-Butanone (MEK), mg/kg dw	ND	0.025
Bromodichloromethane, mg/kg dw	ND	0.005
1,1,2,2-Tetrachloroethane, mg/kg dw	ND	0.005
1,2-Dichloropropane, mg/kg dw	ND	0.005
1,1,2-Trichloroethane, mg/kg dw	ND	0.005
Benzene, mg/kg dw	ND	0.005
Toluene, mg/kg dw	ND	0.005
Ethylbenzene, mg/kg dw	ND	0.005
Xylenes, Total, mg/kg dw	ND	0.010
Total Organic Carbon (9060), mg/kg dw	ND	500
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	ND	0.50

SEVERN TRENT SERVICES
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CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 145510411

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION	DATE/ TIME SAMPLED
11760-3	Method Blank	
11760-4	Practical Quantitation Limits	

QC REPORT FOR SOLID/SEMISOLID

PARAMETER	11760-3	11760-4
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/kg dw	ND	0.33
2-Chloronaphthalene, mg/kg dw	ND	0.33
Acenaphthylene, mg/kg dw	ND	0.33
Acenaphthene, mg/kg dw	ND	0.33
Fluorene, mg/kg dw	ND	0.33
Hexachlorobenzene, mg/kg dw	ND	0.33
Phenanthrene, mg/kg dw	ND	0.33
Anthracene, mg/kg dw	ND	0.33
Di-n-butylphthalate, mg/kg dw	ND	0.33
Fluoranthene, mg/kg dw	ND	0.33
Pyrene, mg/kg dw	ND	0.33
bis(2-Ethylhexyl)phthalate, mg/kg dw	ND	0.33
Chrysene, mg/kg dw	ND	0.33
Benzo(a)anthracene, mg/kg dw	ND	0.33
Benzo(b)fluoranthene, mg/kg dw	ND	0.33
Benzo(k)fluoranthene, mg/kg dw	ND	0.33
Benzo(a)pyrene, mg/kg dw	ND	0.33
Indeno(1,2,3-cd)pyrene, mg/kg dw	ND	0.33
Dibenzo(a,h)anthracene, mg/kg dw	ND	0.33
Benzo(g,h,i)perylene, mg/kg dw	ND	0.33
2-Chlorophenol, mg/kg dw	ND	0.33

SEVERN TRENT SERVICES
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LOG NO: S1-11760
Received: 23 MAR 01
Reported: 10 APR 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 145510411

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
11760-3	Method Blank	
11760-4	Practical Quantitation Limits	

PARAMETER	11760-3	11760-4
Phenol, mg/kg dw	ND	0.33
2,4-Dimethylphenol, mg/kg dw	ND	0.33
Pentachlorophenol, mg/kg dw	ND	1.7
2-Methylphenol (o-Cresol), mg/kg dw	ND	0.33
2-Methylnaphthalene, mg/kg dw	ND	0.33
2,4,5-Trichlorophenol, mg/kg dw	ND	0.33
Dibenzofuran, mg/kg dw	ND	0.33
Carbazole, mg/kg dw	ND	0.33
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/kg dw	ND	0.33
Tetrachlorophenols, mg/kg dw	ND	0.33
Dilution factor	1	1
Arsenic (6010), mg/kg dw	ND	1.0
Chromium (6010), mg/kg dw	ND	1.0
Copper (6010), mg/kg dw	ND	2.0

SEVERN TRENT SERVICES
STL Savannah
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LOG NO: S1-11760
Received: 23 MAR 01
Reported: 10 APR 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 145510411

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
11760-5	Method Detection Limit (MDL)	
11760-6	Accuracy (mean % recovery)	

PARAMETER	11760-5	11760-6
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/kg dw	0.0014	---
Acetone, mg/kg dw	0.0036	---
Chloroform, mg/kg dw	0.0017	---
2-Butanone (MEK), mg/kg dw	0.0033	---
Bromodichloromethane, mg/kg dw	0.00088	---
1,1,2,2-Tetrachloroethane, mg/kg dw	0.0010	---
1,2-Dichloropropane, mg/kg dw	0.0014	---
1,1,2-Trichloroethane, mg/kg dw	0.00096	---
Benzene, mg/kg dw	0.0017	105 %
Toluene, mg/kg dw	0.0018	111 %
Ethylbenzene, mg/kg dw	0.0020	---
Xylenes, Total, mg/kg dw	0.0016	---
Total Organic Carbon (9060), mg/kg dw	150	72 %
Ammonia (as N) (EPA/CE-81-1(3-140)), mg/kg dw	0.075	98 %

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
11760-5	Method Detection Limit (MDL)	
11760-6	Accuracy (mean % recovery)	

PARAMETER	11760-5	11760-6
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/kg dw	0.025	56 %
2-Chloronaphthalene, mg/kg dw	0.024	---
Acenaphthylene, mg/kg dw	0.021	61 %
Acenaphthene, mg/kg dw	0.029	62 %
Fluorene, mg/kg dw	0.031	66 %
Hexachlorobenzene, mg/kg dw	0.045	---
Phenanthrene, mg/kg dw	0.017	68 %
Anthracene, mg/kg dw	0.021	70 %
Di-n-butylphthalate, mg/kg dw	0.028	---
Fluoranthene, mg/kg dw	0.031	70 %
Pyrene, mg/kg dw	0.063	72 %
bis(2-Ethylhexyl)phthalate, mg/kg dw	0.045	---
Chrysene, mg/kg dw	0.021	82 %
Benzo(a)anthracene, mg/kg dw	0.020	82 %
Benzo(b)fluoranthene, mg/kg dw	0.023	74 %
Benzo(k)fluoranthene, mg/kg dw	0.026	73 %
Benzo(a)pyrene, mg/kg dw	0.029	78 %
Indeno(1,2,3-cd)pyrene, mg/kg dw	0.067	90 %
Dibenzo(a,h)anthracene, mg/kg dw	0.052	76 %
Benzo(g,h,i)perylene, mg/kg dw	0.026	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
11760-5	Method Detection Limit (MDL)	
11760-6	Accuracy (mean % recovery)	

PARAMETER	11760-5	11760-6
2-Chlorophenol, mg/kg dw	0.032	52 %
Phenol, mg/kg dw	0.042	50 %
2,4-Dimethylphenol, mg/kg dw	0.028	61 %
Pentachlorophenol, mg/kg dw	0.18	56 %
2-Methylphenol (o-Cresol), mg/kg dw	0.032	52 %
2-Methylnaphthalene, mg/kg dw	0.032	---
2,4,5-Trichlorophenol, mg/kg dw	0.029	68 %
Dibenzofuran, mg/kg dw	0.030	---
Carbazole, mg/kg dw	0.022	67 %
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/kg dw	0.042	45 %
Tetrachlorophenols, mg/kg dw	0.061	56 %
Arsenic (6010), mg/kg dw	0.45	100 %
Chromium (6010), mg/kg dw	0.17	106 %
Copper (6010), mg/kg dw	0.72	106 %

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Project: WILMINGTON
Sampled By: Client
Code: 145510411

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
11760-7	Precision (% RPD)	
11760-8	Analyst	

PARAMETER	11760-7	11760-8
Volatiles by GC/MS (8260)		
Benzene	2 %	Paul Grimm
Toluene	2 %	Paul Grimm
Methylene chloride (Dichloromethane)	---	Paul Grimm
Acetone	---	Paul Grimm
Chloroform	---	Paul Grimm
2-Butanone (MEK)	---	Paul Grimm
Bromodichloromethane	---	Paul Grimm
1,1,2,2-Tetrachloroethane	---	Paul Grimm
1,2-Dichloropropane	---	Paul Grimm
1,1,2-Trichloroethane	---	Paul Grimm
Ethylbenzene	---	Paul Grimm
Xylenes, Total	---	Paul Grimm
Total Organic Carbon (9060)	4.7 %	Rob Davis
Ammonia (as N) (EPA/CE-81-1(3-140))	5.8 %	Rob Davis

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Sampled By: Client
Code: 145510411

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
11760-7	Precision (% RPD)	
11760-8	Analyst	

PARAMETER	11760-7	11760-8
Acid & Base Neutral Extractables (8270)		
Naphthalene	5.4 %	Kim Humphreys
Acenaphthylene	0.0 %	Kim Humphreys
Acenaphthene	4.9 %	Kim Humphreys
Fluorene	4.6 %	Kim Humphreys
Phenanthrene	4.4 %	Kim Humphreys
Anthracene	8.7 %	Kim Humphreys
Fluoranthene	8.7 %	Kim Humphreys
Pyrene	13 %	Kim Humphreys
Chrysene	7.4 %	Kim Humphreys
Benzo(a)anthracene	0.0 %	Kim Humphreys
Benzo(b)fluoranthene	12 %	Kim Humphreys
Benzo(k)fluoranthene	0.0 %	Kim Humphreys
Benzo(a)pyrene	3.9 %	Kim Humphreys
Indeno(1,2,3-cd)pyrene	10 %	Kim Humphreys
Dibenzo(a,h)anthracene	8.0 %	Kim Humphreys
2-Chlorophenol	0.0 %	Kim Humphreys
Phenol	6.1 %	Kim Humphreys
2,4-Dimethylphenol	0.0 %	Kim Humphreys
Pentachlorophenol	5.4 %	Kim Humphreys
2-Methylphenol (o-Cresol)	0.0 %	Kim Humphreys
2,4,5-Trichlorophenol	4.4 %	Kim Humphreys

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Project: WILMINGTON
Sampled By: Client
Code: 145510411

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
11760-7	Precision (% RPD)	
11760-8	Analyst	

PARAMETER	11760-7	11760-8
Carbazole	9.1 %	Kim Humphreys
3-Methylphenol/4-Methylphenol (m&p-Cresol)	0.0 %	Kim Humphreys
Tetrachlorophenols	5.4 %	Kim Humphreys
2-Chloronaphthalene	---	Kim Humphreys
Hexachlorobenzene	---	Kim Humphreys
Di-n-butylphthalate	---	Kim Humphreys
bis(2-Ethylhexyl)phthalate	---	Kim Humphreys
Benzo(g,h,i)perylene	---	Kim Humphreys
2-Methylnaphthalene	---	Kim Humphreys
Dibenzofuran	---	Kim Humphreys
Arsenic (6010)	0.71 %	Susan Norwood
Chromium (6010)	0.81 %	Susan Norwood
Copper (6010)	1.0 %	Susan Norwood

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Project: WILMINGTON
Sampled By: Client
Code: 145510411

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
11760-9	EPA Method Numbers	
11760-10	Dates Extracted	

PARAMETER	11760-9	11760-10
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane)	8260	---
Acetone	8260	---
Chloroform	8260	---
2-Butanone (MEK)	8260	---
Bromodichloromethane	8260	---
1,1,2,2-Tetrachloroethane	8260	---
1,2-Dichloropropane	8260	---
1,1,2-Trichloroethane	8260	---
Benzene	8260	---
Toluene	8260	---
Ethylbenzene	8260	---
Xylenes, Total	8260	---
Total Organic Carbon (9060)	9060	---
Ammonia (as N) (EPA/CE-81-1(3-140))	350.1	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
11760-9	EPA Method Numbers	
11760-10	Dates Extracted	

PARAMETER	11760-9	11760-10
Acid & Base Neutral Extractables (8270)		
Naphthalene	8270C	03.26.01
2-Chloronaphthalene	8270C	03.26.01
Acenaphthylene	8270C	03.26.01
Acenaphthene	8270C	03.26.01
Fluorene	8270C	03.26.01
Hexachlorobenzene	8270C	03.26.01
Phenanthrene	8270C	03.26.01
Anthracene	8270C	03.26.01
Di-n-butylphthalate	8270C	03.26.01
Fluoranthene	8270C	03.26.01
Pyrene	8270C	03.26.01
bis(2-Ethylhexyl)phthalate	8270C	03.26.01
Chrysene	8270C	03.26.01
Benzo(a)anthracene	8270C	03.26.01
Benzo(b)fluoranthene	8270C	03.26.01
Benzo(k)fluoranthene	8270C	03.26.01
Benzo(a)pyrene	8270C	03.26.01
Indeno(1,2,3-cd)pyrene	8270C	03.26.01
Dibenzo(a,h)anthracene	8270C	03.26.01
Benzo(g,h,i)perylene	8270C	03.26.01
2-Chlorophenol	8270C	03.26.01

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CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 145510411

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
11760-9	EPA Method Numbers	-
11760-10	Dates Extracted	

PARAMETER	11760-9	11760-10
Phenol	8270C	03.26.01
2,4-Dimethylphenol	8270C	03.26.01
Pentachlorophenol	8270C	03.26.01
2-Methylphenol (o-Cresol)	8270C	03.26.01
2-Methylnaphthalene	8270C	03.26.01
2,4,5-Trichlorophenol	8270C	03.26.01
Dibenzofuran	8270C	03.26.01
Carbazole	8270C	03.26.01
3-Methylphenol/4-Methylphenol (m&p-Cresol)	8270C	03.26.01
Tetrachlorophenols	8270C	03.26.01
Arsenic (6010)	6010	---
Chromium (6010)	6010	---
Copper (6010)	6010	---

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P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 145510411

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
11760-11	Dates Analyzed	

PARAMETER	11760-11
Volatiles by GC/MS (8260)	
Methylene chloride (Dichloromethane)	03.26.01
Acetone	03.26.01
Chloroform	03.26.01
2-Butanone (MEK)	03.26.01
Bromodichloromethane	03.26.01
1,1,2,2-Tetrachloroethane	03.26.01
1,2-Dichloropropane	03.26.01
1,1,2-Trichloroethane	03.26.01
Benzene	03.26.01
Toluene	03.26.01
Ethylbenzene	03.26.01
Xylenes, Total	03.26.01
Total Organic Carbon (9060)	04.10.01
Ammonia (as N) (EPA/CE-81-1(3-140))	03.28.01

SEVERN TRENT SERVICES
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
11760-11	Dates Analyzed	

PARAMETER	11760-11
Acid & Base Neutral Extractables (8270)	
Naphthalene	03.27.01
2-Chloronaphthalene	03.27.01
Acenaphthylene	03.27.01
Acenaphthene	03.27.01
Fluorene	03.27.01
Hexachlorobenzene	03.27.01
Phenanthrene	03.27.01
Anthracene	03.27.01
Di-n-butylphthalate	03.27.01
Fluoranthene	03.27.01
Pyrene	03.27.01
bis(2-Ethylhexyl)phthalate	03.27.01
Chrysene	03.27.01
Benzo(a)anthracene	03.27.01
Benzo(b)fluoranthene	03.27.01
Benzo(k)fluoranthene	03.27.01
Benzo(a)pyrene	03.27.01
Indeno(1,2,3-cd)pyrene	03.27.01
Dibenzo(a,h)anthracene	03.27.01
Benzo(g,h,i)perylene	03.27.01
2-Chlorophenol	03.27.01
Phenol	03.27.01

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Code: 145510411

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
11760-11	Dates Analyzed	

PARAMETER	11760-11
2,4-Dimethylphenol	03.27.01
Pentachlorophenol	03.27.01
2-Methylphenol (o-Cresol)	03.27.01
2-Methylnaphthalene	03.27.01
2,4,5-Trichlorophenol	03.27.01
Dibenzofuran	03.27.01
Carbazole	03.27.01
3-Methylphenol/4-Methylphenol (m&p-Cresol)	03.27.01
Tetrachlorophenols	03.27.01
Arsenic (6010)	03.27.01
Chromium (6010)	03.27.01
Copper (6010)	03.27.01

SW-846, Test Methods for Evaluating Solid Waste, Third Edition, September 1986, and Updates I, II, IIA, IIB, and III.
Methods: EPA SW-846 ND = Not Detected

Gloria D. Fulwood

Gloria D. Fulwood, Project Manager

Final Page Of Report

Serial Number 020786

SEVERN TRENT SERVICES

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Severn Trent Laboratories, Inc.

- [X] 5102 LaRoche Avenue, Savannah, GA 31404 — Phone: (912) 354-7858 — Fax: (912) 352-0165
- [ ] 2846 Industrial Plaza Drive, Tallahassee, FL 32301 — Phone: (850) 878-3994 — Fax: (850) 878-9504
- [ ] 900 Lakeside Drive, Mobile, AL 36693 — Phone: (334) 666-6633 — Fax: (334) 666-6696
- [ ] 6712 Benjamin Road, Suite 100, Tampa, FL 33634 — Phone: (813) 885-7427 — Fax: (813) 885-7049

PROJECT REFERENCE: SWP-Wilmington	PROJECT NO.: 979007.A0-27	PROJECT LOCATION (STATE): NC
STL (LAB) PROJECT MANAGER: B. Fulwood	P.O. NUMBER:	CONTRACT NO.:
CLIENT (SITE): Southern Wood Piedmont	CLIENT PHONE: 864-599-1070	CLIENT FAX: 864-599-1087
CLIENT NAME: Bill Arrants	CLIENT E-MAIL: william.arrants@rayonier.com	
CLIENT ADDRESS: P.O. Box 5447 Spartanburg, SC 29304		
COMPANY CONTRACTING THIS WORK (if applicable): Schnabel Engineering - Greg Kurtz		

PAGE 1 OF 1

STANDARD REPORT DELIVERY [X]
DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) [ ]
DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX TYPE: Grab	MATRIX TYPE: Solid	VOC-Soil (Encore)	VOC-Soil (Bulk)	TOC/Ammonia-Soil	SVOC-Soil	As/Cr/Cu-Soil						REMARKS
					PRESERVATIVE										
3/22/01	15:15	SD-40 SWP Log# 176960	X	X	3	1	1	1	1						
↓	↓	SD-40-Dup	↓	↓	↓	↓	↓	↓	↓						

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[illegible]	3/15/01	12:40	Gregory B. Kurtz	3/22/01	16:30			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
EMPTY CONTAINERS								

LABORATORY USE ONLY

RECEIVED FOR LABORATORY USE BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL	STL SL LOG NO.	LABORATORY REMARKS:
[illegible]	3/23/01	8:50	YES / NO		SL-11760	

dow
Greg K.
WPA

PARADIGM ANALYTICAL LABORATORIES, INC.
2627 Northchase Parkway S.E.
Wilmington, North Carolina 28405
(910) 350-1903
Fax (910) 350-1557

RECEIVED
NOV 16 2000
SOUTHERN WOOD PIEDMONT

Wednesday, November 15, 2000

Ms. Sandra Watson
Southern Wood Piedmont
591 Springfield Road
Spartanburg, SC 29304

Dear Ms. Watson:

Enclosed are the final results for the samples received by Paradigm Analytical Laboratories, Inc. on October 25, 2000 under your Project Name "SWP-Wilmington". The samples were analyzed by Method 1613 following Paradigm's Standard Operating Procedures.

A summary data package has been provided.

No. of Samples Received:	12 Solid/Semi-solid; 1 Liquid
No. of Samples Analyzed:	13
No. of Lab. Method Blanks:	2
No. of OPRs:	2
Your Project Number:	979007.AO.23
PAL Project No.:	G440-1

Remarks:

- Data meet QA/QC criteria.
- A copy of the Sample Receipt Checklist, with information on sample condition upon their receipt at the laboratory, is enclosed.
- Copies of Paradigm's Method 1613 Method Detection Limits (MDLs) for soils and waters are included in this report.
- The Method 1613 Acceptance Criteria for Extraction and Cleanup Standard Recoveries are given in Table 3.
- The Practical Quantitation Limits (laboratory lower calibration limits) are listed in Table 4.
- The following people were involved in the analysis and/or review of this project: Michael Medwedeff (Sample Prep Technician); Beth Sheffield (Sample Prep Technician); Heather Keen (HR/MS Chemist); Craig Tronzo (Senior Chemist); Greg Dickinson (QA Officer); Martha Maier (Laboratory Director)
- Paradigm is certified by the State of North Carolina for the analysis of 2,3,7,8-TCDD by EPA Method 1613. The State of North Carolina does not offer certification for the method's full analyte list.
- The solid/semi-solid samples were re-extracted because the OPR performed with the original analyses did not meet the method acceptance criteria. The Paradigm Sample IDs are appended with an "R".
- Smaller sample sizes (less than 10g) were extracted for samples that had high analyte (saturated peaks) or interference levels in the original analyses. Detection limits for the lower-chlorinated congeners may be elevated.
- Sample 98170R required a 1:10 dilution of the extract to quantitate the HpCDDs and OCDD. The dilution is identified with a "D10" following the Paradigm Sample ID. Please note that the TEQs for the two submitted analyses must be combined for the total sample TEQ.
- Sample 98168R required re-injection because the lockmass was lost during the analysis of the hexa homologues. The quantitation of the OCDD is reported from the original analysis, and all other analytes are reported from the second injection (OCDD was saturated in the second analysis.) Please note that the TEQs for the two submitted analyses must be combined for the total sample TEQ.

We appreciate your business and look forward to working with you again. Please contact me if you have questions or need additional technical support.

Sincerely,

Martha Maier

Martha M. Maier
Senior Chemist

Table 1: Toxic Equivalency Factors

Analyte	World Health Organization	International-89	MADEP
2,3,7,8-TCDD	1	1	1
1,2,3,7,8-PeCDD	1	0.5	0.5
1,2,3,4,7,8-HxCDD	0.1	0.1	0.1
1,2,3,6,7,8-HxCDD	0.1	0.1	0.1
1,2,3,7,8,9-HxCDD	0.1	0.1	0.1
1,2,3,4,6,7,8-HpCDD	0.01	0.01	0.1
OCDD	0.0001	0.001	0.001
2,3,7,8-TCDF	0.1	0.1	0.1
1,2,3,7,8-PeCDF	0.05	0.05	0.5
2,3,4,7,8-PeCDF	0.5	0.5	0.5
1,2,3,4,7,8-HxCDF	0.1	0.1	0.1
1,2,3,6,7,8-HxCDF	0.1	0.1	0.1
2,3,4,6,7,8-HxCDF	0.1	0.1	0.1
1,2,3,7,8,9-HxCDF	0.1	0.1	0.1
1,2,3,4,6,7,8-HpCDF	0.01	0.01	0.1
1,2,3,4,7,8,9-HpCDF	0.01	0.01	0.1
OCDF	0.0001	0.001	0.001

Table 2. List of Qualifiers

A	Amount detected is less than the Calibration Limit
B	Analyte was detected in the LMB at a level above the RL or EDL.
E	Amount detected is over the Method Calibration Limit
DPE	Denotes the presence of possible polychlorinated diphenylethers
EDL	"Estimated Detection Limit"
EMPC	"Estimated Maximum Possible Concentration"
ppt	Parts-per-trillion (pg/g; ng/L)
Q	Indicates the presence of quantitative interferences. They generally result in an underestimation of the affected total homologue groups.
V	Recovery is lower than 40%. The data has been validated based on a favorable signal-to-noise and detection limit.
#	Outside recovery limits
*	See cover letter

Table 3: Method 1613 Standard Recovery Criteria

Analyte	Recovery Limit (%)
^{13}C-2378-TCDD	25-164
^{13}C-12378-PeCDD	25-181
^{13}C-123478-HxCDD	32-141
^{13}C-123678-HxCDD	28-130
^{13}C-1234678-HpCDD	23-140
^{13}C-OCDD	17-157
^{13}C-2378-TCDF	24-169
^{13}C-12378-PeCDF	24-185
^{13}C-23478-PeCDF	21-178
^{13}C-123478-HxCDF	26-152
^{13}C-123678-HxCDF	26-123
^{13}C-123789-HxCDF	29-147
^{13}C-234678-HxCDF	28-136
^{13}C-1234678-HpCDF	28-143
^{13}C-1234789-HpCDF	26-138
^{37}Cl-2378-TCDD	35-197

Table 4: Practical Quantitation Limits
(Lower Limit of Calibration Curve)

Analyte	Method 1613	
	Solid PQL (ppt)	Aqueous PQL (ppq)
2378-TCDD	0.5	10
12378-PECDD	2.5	50
123478-HXCDD	2.5	50
123678-HXCDD	2.5	50
123789-HXCDD	2.5	50
1234678-HPCDD	2.5	50
OCDD	5	100
2378-TCDF	0.5	10
12378-PECDF	2.5	50
23478-PECDF	2.5	50
123478-HXCDF	2.5	50
123678-HXCDF	2.5	50
234678-HXCDF	2.5	50
123789-HXCDF	2.5	50
1234678-HPCDF	2.5	50
1234789-HPCDF	2.5	50
OCDF	5	100

Method:	1613	Matrix:	Soil
Prep. Method:	3545	Sample Weight/Volume:	20 g
Date:	Jun-99	Spile Conc:	1 ppt
Instrument ID:	HRMS-2	Spike Amount:	20 pg
Analytical Column:	60M DB-5MS	Report Conc units:	ppt
Detector:	HRMS	PAL Project No.:	G100-42

Analyte	Rep-2	Rep-3	Rep-4	Rep-5	Rep-6	Rep-7	Rep-8	SD	MDL (ppt)	%RSD
2,3,7,8-TCDD	0.97877	0.91542	0.92701	1.05908	1.58697	0.94624	1.00499	0.237646	0.746921	22.42402
1,2,3,7,8-PeCDD	2.592	2.455	2.382	2.457	2.796	2.383	2.624	0.15157	0.476383	5.998004
1,2,3,4,7,8-HxCDD	2.502	2.429	2.388	2.389	2.328	2.464	2.612	0.092941	0.292112	3.801917
1,2,3,6,7,8-HxCDD	2.55	2.358	2.206	2.494	3.403	2.344	2.526	0.39345	1.236615	15.40268
1,2,3,7,8,9-HxCDD	2.567	2.407	2.263	2.395	2.788	2.405	2.607	0.174685	0.549035	7.014663
1,2,3,4,6,7,8-HpCDD	2.979	2.536	2.236	2.344	2.463	2.371	2.812	0.268274	0.843185	10.58519
OCDD	9.283	8.592	5.253	4.873	7.705	6.031	9.155	1.865981	5.86478	25.66586
2,3,7,8-TCDF	1.028	0.927	0.905	0.887	0.905	0.915	1.016	0.057114	0.179508	6.073136
1,2,3,7,8-PeCDF	2.374	2.239	2.229	2.186	2.141	2.217	2.401	0.096272	0.302582	4.268714
2,3,4,7,8-PeCDF	2.413	2.184	2.135	2.153	2.119	2.181	2.419	0.129741	0.407777	5.820233
1,2,3,4,7,8-HxCDF	2.437	2.283	2.181	2.243	2.167	2.232	2.487	0.124532	0.391406	5.438099
1,2,3,6,7,8-HxCDF	2.343	2.254	2.161	2.145	2.172	2.202	2.407	0.100021	0.314367	4.464103
2,3,4,6,7,8-HxCDF	2.463	2.351	2.249	2.295	2.273	2.265	2.495	0.099731	0.313455	4.259151
1,2,3,7,8,9-HxCDF	2.15	2.088	1.988	2.102	2.01	2.049	2.257	0.091373	0.287185	4.367728
1,2,3,4,6,7,8-HpCDF	3.537	2.295	2.229	2.209	2.08	2.292	2.451	0.495634	1.557777	20.29741
1,2,3,4,7,8,9-HpCDF	2.284	2.169	2.089	2.033	2.06	2.094	2.339	0.117358	0.368857	5.452001
OCDF	3.994	3.769	3.135	3.093	3.447	3.513	4.72	0.564322	1.773665	15.38801

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Method 1613

SS-9DF

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Analytical Data Summary Sheet

Analyte	Amount (ppt)	EDL (ppt)	EMPC (ppt)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	EMPC	0.198	0.348	31:17	0.54	
1,2,3,7,8-PeCDD	1.35			34:08	1.45	A
1,2,3,4,7,8-HxCDD	4.65			36:42	1.07	A
1,2,3,6,7,8-HxCDD	77.0			36:48	1.18	
1,2,3,7,8,9-HxCDD	11.3			37:02	1.18	
1,2,3,4,6,7,8-HpCDD	4350			40:05	1.05	
OCDD	49000			44:19	0.87	E
2,3,7,8--TCDF	ND	0.455				
1,2,3,7,8-PeCDF	1.31			33:19	1.43	A
2,3,4,7,8-PeCDF	4.49			33:57	1.4	A
1,2,3,4,7,8-HxCDF	19.4			36:00	1.22	
1,2,3,6,7,8-HxCDF	5.47			36:06	1.14	A
2,3,4,6,7,8-HxCDF	10.2			36:35	1.11	
1,2,3,7,8,9-HxCDF	6.06			37:23	1.24	A
1,2,3,4,6,7,8-HpCDF	1550			38:50	1.05	
1,2,3,4,7,8,9-HpCDF	31.9			40:45	1.04	
OCDF	3600			44:37	0.83	
Total TCDDs	1.43		1.78			
Total PeCDDs	25.1		29.4			
Total HxCDDs	1080		1080			
Total HpCDDs	27100					
Total TCDFs	7.93		8.50			
Total PeCDFs	45.6		46.1			
Total HxCDFs	863					
Total HpCDFs	4780					
TEQ (ND=0)	128		129			ITEF
TEQ (ND=½)	128		129			ITEF

Client Information

Project Name:	SWP-Wilmington	**Sample Information**		
Sample ID:	SS-9DF	Matrix:	Solid	
		Weight / Volume:	05.05	Grams
Laboratory Information		Solids / Lipids:	70.5	%
		Original pH :	NA	
Project ID:	G440-1	Batch ID:	WG5093	
Sample ID:	98167R			
		Filename:	a09nov00a-4	
Collection Date/Time:	24-Oct-00 08:00	Retchk:	a09nov00a-1	
Receipt Date:	25-Oct-00	Begin ConCal:	a09nov00a-1	
Extraction Date:	08-Nov-00			
Analysis Date:	09-Nov-00	Initial Cal:	m1613-052699m	

Method: 1613
Prep. Method: 3520C (MEX)
Analyst: MRM-HMK
Date: Oct-00
Instrument ID: HRMS-1
Analytical Column: 60M DB-5MS
Detector: HRMS

Matrix: Water
Sample Weight/Volume: 500 ml
Spike Conc.: .01,.025,.05
Spike Amount: 5, 12.5, 25 pg
Report Conc. units: ppt
PAL Project No.: G100-127

Analyte	Rep. 1	Rep. 2	Rep. 3	Rep. 4	Rep. 5	Rep. 6	Rep. 7	SD	MDL (ppq)
2,3,7,8-TCDD	0.0093	0.0103	0.0090	0.0100	0.0100	0.0107	0.0112	0.0006	2.37
1,2,3,7,8-PeCDD	0.0272	0.0251	0.0253	0.0265	0.0254	0.0251	0.0236	0.0009	3.65
1,2,3,4,7,8-HxCDD	0.0276	0.0246	0.0295	0.0301	0.0245	0.0278	0.0267	0.0024	6.90
1,2,3,6,7,8-HxCDD	0.0229	0.0228	0.0249	0.0279	0.0234	0.0235	0.0223	0.0019	6.02
1,2,3,7,8,9-HxCDD	0.0245	0.0229	0.0255	0.0251	0.0258	0.0239	0.0234	0.0011	3.40
1,2,3,4,6,7,8-HpCDD	0.0308	0.0276	0.0275	0.0287	0.0288	0.0264	0.0268	0.0015	4.65
OCDD	0.0647	0.0594	0.0644	0.0614	0.0794	0.0561	0.0588	0.0081	24.06
2,3,7,8-TCDF	0.0084	0.0081	0.0090	0.0086	0.0078	0.0086	0.0073	0.0004	1.78
1,2,3,7,8-PeCDF	0.0230	0.0239	0.0232	0.0245	0.0232	0.0239	0.0223	0.0006	2.25
2,3,4,7,8-PeCDF	0.0213	0.0210	0.0210	0.0216	0.0210	0.0209	0.0219	0.0003	1.28
1,2,3,4,7,8-HxCDF	0.0279	0.0234	0.0244	0.0238	0.0251	0.0258	0.0257	0.0016	4.75
1,2,3,6,7,8-HxCDF	0.0256	0.0228	0.0255	0.0248	0.0252	0.0240	0.0263	0.0011	3.65
2,3,4,6,7,8-HxCDF	0.0287	0.0268	0.0296	0.0266	0.0268	0.0263	0.0300	0.0014	4.92
1,2,3,7,8,9-HxCDF	0.0247	0.0233	0.0252	0.0240	0.0244	0.0242	0.0256	0.0007	2.45
1,2,3,4,6,7,8-HpCDF	0.0241	0.0247	0.0256	0.0230	0.0232	0.0241	0.0235	0.0010	2.90
1,2,3,4,7,8,9-HpCDF	0.0224	0.0255	0.0226	0.0254	0.0244	0.0235	0.0246	0.0014	3.94
OCDF	0.0587	0.0531	0.0571	0.0560	0.0590	0.0574	0.0568	0.0021	6.09

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Method 1613

SS-9DF

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Analytical Data Summary Sheet

Analyte	Amount (ppt)	EDL (ppt)	EMPC (ppt)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	EMPC	0.198	0.348	31:17	0.54	
1,2,3,7,8-PeCDD	1.35			34:08	1.45	A
1,2,3,4,7,8-HxCDD	4.65			36:42	1.07	A
1,2,3,6,7,8-HxCDD	77.0			36:48	1.18	
1,2,3,7,8,9-HxCDD	11.3			37:02	1.18	
1,2,3,4,6,7,8-HpCDD	4350			40:05	1.05	
OCDD	49000			44:19	0.87	E
2,3,7,8--TCDF	ND	0.455				
1,2,3,7,8-PeCDF	1.31			33:19	1.43	A
2,3,4,7,8-PeCDF	4.49			33:57	1.4	A
1,2,3,4,7,8-HxCDF	19.4			36:00	1.22	
1,2,3,6,7,8-HxCDF	5.47			36:06	1.14	A
2,3,4,6,7,8-HxCDF	10.2			36:35	1.11	
1,2,3,7,8,9-HxCDF	6.06			37:23	1.24	A
1,2,3,4,6,7,8-HpCDF	1550			38:50	1.05	
1,2,3,4,7,8,9-HpCDF	31.9			40:45	1.04	
OCDF	3600			44:37	0.83	
Total TCDDs	1.43		1.78			
Total PeCDDs	25.1		29.4			
Total HxCDDs	1080		1080			
Total HpCDDs	27100					
Total TCDFs	7.93		8.50			
Total PeCDFs	45.6		46.1			
Total HxCDFs	863					
Total HpCDFs	4780					
TEQ (ND=0)	128		129			ITEF
TEQ (ND=½)	128		129			ITEF

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SS-9DF		

Laboratory Information

Project ID:	G440-1		
Sample ID:	98167R		
Collection Date/Time:	24-Oct-00	08:00	
Receipt Date:	25-Oct-00		
Extraction Date:	08-Nov-00		
Analysis Date:	09-Nov-00		

Sample Information

Matrix:	Solid	
Weight / Volume:	05.05	Grams
Solids / Lipids:	70.5	%
Original pH :	NA	
Batch ID:	WG5093	
Filename:	a09nov00a-4	
Retchk:	a09nov00a-1	
Begin ConCal:	a09nov00a-1	
Initial Cal:	m1613-052699m	

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Method 1613

SS-9DF

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	2.01	100.6	31:16	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.85	92.6	34:07	1.52	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	2.04	101.9	36:42	1.23	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.17	108.7	36:48	1.22	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.94	96.8	40:05	1.05	
$^{13}C_{12}$-OCDD	4	5.57	139.3	44:18	0.86	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.16	108.0	30:34	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.06	103.1	33:19	1.65	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.11	105.6	33:56	1.63	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.94	97.1	35:59	0.50	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.98	99.0	36:06	0.51	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.88	94.0	36:34	0.5	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.20	110.0	37:21	0.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.05	102.6	38:49	0.47	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.17	108.5	40:44	0.47	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.75	93.1	31:17		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:46	0.83	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:34	0.5	

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-9DF

Laboratory Information

Project ID: G440-1
Sample ID: 98167R

Collection Date/Time: 24-Oct-00 08:00
Receipt Date: 25-Oct-00
Extraction Date: 08-Nov-00
Analysis Date: 09-Nov-00

Sample Information

Matrix: Solid
Weight / Volume: 05.05 Grams
Solids / Lipids: 70.5 %
Original pH : NA
Batch ID: WG5093

Filename: a09nov00a-4
Retchk: a09nov00a-1
Begin ConCal: a09nov00a-1

Initial Cal: m1613-052699m

Analyzed by: HMK
Date: 28Nov00

Reviewed by: [illegible]
Date: 11/28/00

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Method 1613

SS-10A-DF

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (ppt)	EDL (ppt)	EMPC (ppt)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	EMPC	0.357	1.63	31:21	0.43	
1,2,3,7,8-PeCDD	7.07			34:34	1.52	A
1,2,3,4,7,8-HxCDD	25.1			37:48	1.27	A
1,2,3,6,7,8-HxCDD	410			37:55	1.24	
1,2,3,7,8,9-HxCDD	62.1			38:13	1.08	
1,2,3,4,6,7,8-HpCDD	21700			42:17	1.04	E
2,3,7,8--TCDF	3.00			30:41	0.8	A
1,2,3,7,8-PeCDF	9.57			33:35	1.55	A
2,3,4,7,8-PeCDF	28.8			34:20	1.61	
1,2,3,4,7,8-HxCDF	79.0			36:53	1.20	
1,2,3,6,7,8-HxCDF	27.6			37:00	1.21	
2,3,4,6,7,8-HxCDF	50.6			37:38	1.25	
1,2,3,7,8,9-HxCDF	27.1			38:40	1.16	
1,2,3,4,6,7,8-HpCDF	5720			40:35	1.04	
1,2,3,4,7,8,9-HpCDF	92.1			43:09	1.04	
OCDF	10600			48:28	0.89	
Total TCDDs	28.1		38.2			
Total PeCDDs	129		135			
Total HxCDDs	4720					
Total HpCDDs	132000					
Total TCDFs	50.1		52.4			
Total PeCDFs	249		250			
Total HxCDFs	3330					
Total HpCDFs	16100					
TEQ (ND=0)	373 *		374 *			ITEF
TEQ (ND=½)	373 *		374 *			ITEF

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SS-10A-DF		

Laboratory Information

Project ID:	G440-1		
Sample ID:	98168R		
Collection Date/Time:	24-Oct-00	08:55	
Receipt Date:	25-Oct-00		
Extraction Date:	08-Nov-00		
Analysis Date:	11-Nov-00		

Sample Information

Matrix:	Solid	
Weight / Volume:	02.06	Grams
Solids / Lipids:	48.2	%
Original pH :	NA	
Batch ID:	WG5093	
Filename:	b11nov00a-3	
Retchk:	b11nov00a-1	
Begin ConCal:	b11nov00a-1	
Initial Cal:	m1613-b061600a	

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Method 1613

SS-10A-DF

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	2.02	101.0	31:19	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.80	89.9	34:32	1.57	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.95	97.7	37:48	1.25	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.03	101.7	37:55	1.24	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	2.27	113.4	42:16	1.06	
$^{13}C_{12}$-OCDD	4	6.96	174.1	48:07	0.95	
$^{13}C_{12}$-2,3,7,8-TCDF	2	1.97	98.7	30:40	0.76	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.90	95.2	33:35	1.56	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	1.85	92.3	34:18	1.54	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.76	88.2	36:52	0.53	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.80	90.1	36:60	0.53	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.82	91.0	37:37	0.53	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.22	110.8	38:36	0.53	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.27	113.3	40:34	0.45	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.46	123.0	43:08	0.45	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.79	99.3	31:20		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:51	0.8	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			37:37	0.53	

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-10A-DF

Laboratory Information

Project ID: G440-1
Sample ID: 98168R

Collection Date/Time: 24-Oct-00 08:55
Receipt Date: 25-Oct-00
Extraction Date: 08-Nov-00
Analysis Date: 11-Nov-00

Sample Information

Matrix: Solid
Weight / Volume: 02.06 Grams
Solids / Lipids: 48.2 %
Original pH : NA
Batch ID: WG5093

Filename: b11nov00a-3
Retchk: b11nov00a-1
Begin ConCal: b11nov00a-1

Initial Cal: m1613-b061600a

Analyzed by: HMK
Date: 28Nov 00

Reviewed by: [illegible]
Date: 11/28/00

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Paradigm Analytical Labs

Method 1613

SS-10A-DF

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (ppt)	EDL (ppt)	EMPC (ppt)	RT (min.)	Ratio	Qualifier
OCDD	261000			44:19	0.86	E
TEQ (ND=0)	261 *		261 *			ITEF
TEQ (ND=½)	261 *		261 *			ITEF

Client Information

Project Name:	SWP-Wilmington			
Sample ID:	SS-10A-DF			
Laboratory Information				
Project ID:	G440-1			
Sample ID:	98168R			
Collection Date/Time:	24-Oct-00	08:55		
Receipt Date:	25-Oct-00			
Extraction Date:	08-Nov-00			
Analysis Date:	09-Nov-00			

Sample Information

Matrix:	Solid	
Weight / Volume:	02.06	Grams
Solids / Lipids:	48.2	%
Original pH :	NA	
Batch ID:	WG5093	
Filename:	a09nov00a-5	
Retchk:	a09nov00a-1	
Begin ConCal:	a09nov00a-1	
Initial Cal:	m1613-052699m	

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SS-10A-DF

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (ppt)	EDL (ppt)	EMPC (ppt)	RT (min.)	Ratio	Qualifier
OCDD	261000			44:19	0.86	E
TEQ (ND=0)	261 *		261 *			ITEF
TEQ (ND=½)	261 *		261 *			ITEF

Client Information

Project Name:	SWP-Wilmington
Sample ID:	SS-10A-DF

Laboratory Information

Project ID:	G440-1	
Sample ID:	98168R	
Collection Date/Time:	24-Oct-00	08:55
Receipt Date:	25-Oct-00	
Extraction Date:	08-Nov-00	
Analysis Date:	09-Nov-00	

Sample Information

Matrix:	Solid	
Weight / Volume:	02.06	Grams
Solids / Lipids:	48.2	%
Original pH :	NA	
Batch ID:	WG5093	
Filename:	a09nov00a-5	
Retchk:	a09nov00a-1	
Begin ConCal:	a09nov00a-1	
Initial Cal:	m1613-052699m	

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SOUTHERN WOOD PIEDMONT

Method 1613

SS-10A-DF

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-OCDD	4	7.23	180.6	44:18	0.88	#
Cleanup Standards						
Injection Standards						
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:34	0.54	

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-10A-DF

Laboratory Information

Project ID: G440-1
Sample ID: 98168R

Collection Date/Time: 24-Oct-00 08:55
Receipt Date: 25-Oct-00
Extraction Date: 08-Nov-00
Analysis Date: 09-Nov-00

Sample Information

Matrix: Solid
Weight / Volume: 02.06 Grams
Solids / Lipids: 48.2 %
Original pH : NA
Batch ID: WG5093

Filename: a09nov00a-5
Retchk: a09nov00a-1
Begin ConCal: a09nov00a-1

Initial Cal: m1613-052699m

Analyzed by: HMK
Date: 28Nov00

Reviewed by: [illegible]
Date: 11/28/00

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SOUTHERN WOOD PIEDMONT

Paradigm Analytical Labs

Method 1613

SD-07DF

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (ppt)	EDL (ppt)	EMPC (ppt)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	3.72				
1,2,3,7,8-PeCDD	EMPC	5.00	9.60	34:08	1.8	
1,2,3,4,7,8-HxCDD	42.5			36:42	1.15	A
1,2,3,6,7,8-HxCDD	459			36:48	1.19	
1,2,3,7,8,9-HxCDD	74.7			37:02	1.24	
1,2,3,4,6,7,8-HpCDD	26100			40:05	1.05	
OCDD	330000			44:19	0.84	E
2,3,7,8--TCDF	ND	5.01				
1,2,3,7,8-PeCDF	9.23			33:20	1.48	A
2,3,4,7,8-PeCDF	24.1			33:57	1.36	A
1,2,3,4,7,8-HxCDF	103			36:00	1.32	
1,2,3,6,7,8-HxCDF	34.2			36:06	1.36	A
2,3,4,6,7,8-HxCDF	66.0			36:35	1.21	
1,2,3,7,8,9-HxCDF	32.6			37:23	1.35	A
1,2,3,4,6,7,8-HpCDF	5860			38:50	1.12	
1,2,3,4,7,8,9-HpCDF	172			40:45	1.17	
OCDF	12300			44:36	0.84	
Total TCDDs	ND	3.72	9.19			
Total PeCDDs	127		144			
Total HxCDDs	6210					
Total HpCDDs	167000					
Total TCDFs	14.3					
Total PeCDFs	189		232			
Total HxCDFs	3810					
Total HpCDFs	17900					
TEQ (ND=0)	757		762			ITEF
TEQ (ND=½)	761		764			ITEF

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-07DF		

Sample Information

Matrix:	Solid	
Weight / Volume:	02.04	Grams
Solids / Lipids:	23.8	%
Original pH :	NA	

Laboratory Information

Project ID:	G440-1	Batch ID:	WG5093
Sample ID:	98169R		
		Filename:	a09nov00a-6
Collection Date/Time:	24-Oct-00 10:10	Retchk:	a09nov00a-1
Receipt Date:	25-Oct-00	Begin ConCal:	a09nov00a-1
Extraction Date:	08-Nov-00		
Analysis Date:	09-Nov-00	Initial Cal:	m1613-052699m

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SOUTHERN WOOD PIEDMONT

Paradigm Analytical Labs

Method 1613

SD-07DF

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	2.00	99.9	31:16	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.90	95.1	34:07	1.52	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.99	99.7	36:42	1.27	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.09	104.3	36:48	1.26	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.78	88.8	40:05	1.07	
$^{13}C_{12}$-OCDD	4	4.95	123.7	44:18	0.83	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.17	108.4	30:34	0.77	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.23	111.6	33:19	1.62	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.17	108.5	33:56	1.58	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.90	94.9	35:59	0.53	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.91	95.6	36:06	0.53	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.83	91.3	36:34	0.54	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.14	107.0	37:21	0.54	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.84	92.2	38:49	0.48	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	1.95	97.7	40:44	0.48	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.72	89.4	31:17		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:46	0.83	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:34	0.54	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-07DF

Laboratory Information

Project ID: G440-1
Sample ID: 98169R

Collection Date/Time: 24-Oct-00 10:10
Receipt Date: 25-Oct-00
Extraction Date: 08-Nov-00
Analysis Date: 09-Nov-00

Sample Information

Matrix: Solid
Weight / Volume: 02.04 Grams
Solids / Lipids: 23.8 %
Original pH : NA
Batch ID: WG5093

Filename: a09nov00a-6
Retchk: a09nov00a-1
Begin ConCal: a09nov00a-1

Initial Cal: m1613-052699m

Analyzed by: HMK
Date: 28 Nov 00

Reviewed by: [illegible]
Date: 11/28/00

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SOUTHERN WOOD PIEDMONT

Paradigm Analytical Labs

Method 1613

SD-06DF

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (ppt)	EDL (ppt)	EMPC (ppt)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	EMPC	2.91	1.37	31:18	0.64	
1,2,3,7,8-PeCDD	8.89			34:08	1.4	
1,2,3,4,7,8-HxCDD	38.2			36:43	1.18	
1,2,3,6,7,8-HxCDD	455			36:49	1.23	
1,2,3,7,8,9-HxCDD	74.6			37:04	1.25	
2,3,7,8--TCDF	2.46			30:37	0.75	
1,2,3,7,8-PeCDF	12.0			33:21	1.52	
2,3,4,7,8-PeCDF	32.6			33:58	1.48	
1,2,3,4,7,8-HxCDF	133			36:01	1.26	
1,2,3,6,7,8-HxCDF	42.9			36:07	1.26	
2,3,4,6,7,8-HxCDF	69.7			36:36	1.26	
1,2,3,7,8,9-HxCDF	39.9			37:24	1.12	
1,2,3,4,6,7,8-HpCDF	8310			38:51	1.11	E
1,2,3,4,7,8,9-HpCDF	173			40:46	1.14	
OCDF	7060			44:40	0.84	
Total TCDDs	10.9		16.7			
Total PeCDDs	178					
Total HxCDDs	7050					
Total HpCDDs	146000					
Total TCDFs	30.6		33.7			
Total PeCDFs	271		273			
Total HxCDFs	5680		5690			
Total HpCDFs	23100					
TEQ (ND=0)	199 *		200 *			ITEF
TEQ (ND=½)	200 *		200 *			ITEF

Client Information

Project Name:	SWP-Wilmington
Sample ID:	SD-06DF

Laboratory Information

Project ID:	G440-1	
Sample ID:	98170R	
Collection Date/Time:	24-Oct-00	11:00
Receipt Date:	25-Oct-00	
Extraction Date:	08-Nov-00	
Analysis Date:	09-Nov-00	

Sample Information

Matrix:	Solid	
Weight / Volume:	05.99	Grams
Solids / Lipids:	63.1	%
Original pH :	NA	
Batch ID:	WG5093	
Filename:	a09nov00a-7	
Retchk:	a09nov00a-1	
Begin ConCal:	a09nov00a-1	
Initial Cal:	m1613-052699m	

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Method 1613

SD-06DF

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.83	91.7	31:18	0.83	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.74	87.1	34:08	1.51	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	2.06	103.1	36:43	1.25	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.27	113.7	36:49	1.28	
$^{13}C_{12}$-OCDD	4	12.22	305.4	44:23	1.09 #	#
$^{13}C_{12}$-2,3,7,8-TCDF	2	1.60	79.9	30:37	0.77	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.28	113.9	33:21	1.61	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.06	102.8	33:57	1.58	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	2.17	108.5	36:00	0.52	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.19	109.5	36:06	0.54	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.89	94.5	36:35	0.54	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.47	123.7	37:22	0.54	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.22	110.9	38:51	0.5	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.04	101.9	40:45	0.48	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.66	82.4	31:18		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:48	0.84	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:35	0.54	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-06DF

Laboratory Information

Project ID: G440-1
Sample ID: 98170R

Collection Date/Time: 24-Oct-00 11:00
Receipt Date: 25-Oct-00
Extraction Date: 08-Nov-00
Analysis Date: 09-Nov-00

Sample Information

Matrix: Solid
Weight / Volume: 05.99 Grams
Solids / Lipids: 63.1 %
Original pH : NA
Batch ID: WG5093

Filename: a09nov00a-7
Retchk: a09nov00a-1
Begin ConCal: a09nov00a-1

Initial Cal: m1613-052699m

Analyzed by: HMK
Date: 28Nov00

Reviewed by: JWK
Date: 11/28/00

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SOUTHERN WOOD PIEDMONT

Paradigm Analytical Labs

Method 1613

SD-06DF

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (ppt)	EDL (ppt)	EMPC (ppt)	RT (min.)	Ratio	Qualifier
1,2,3,4,6,7,8-HpCDD	26200			42:17	1.03	
OCDD	261000			48:05	0.89	E
Total HpCDDs	177000					
TEQ (ND=0)	523 *		523 *			ITEF
TEQ (ND=½)	523 *		523 *			ITEF

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-06DF

Laboratory Information

Project ID: G440-1
Sample ID: 98170R D10

Collection Date/Time: 24-Oct-00 11:00
Receipt Date: 25-Oct-00
Extraction Date: 08-Nov-00
Analysis Date: 11-Nov-00

Sample Information

Matrix: Solid
Weight / Volume: 05.99 Grams
Solids / Lipids: 63.1 %
Original pH : NA
Batch ID: WG5093

Filename: b11nov00a-9
Retchk: b11nov00a-15
Begin ConCal: b11nov00a-15

Initial Cal: m1613-b061600a

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SOUTHERN WOOD PIEDMONT

Paradigm Analytical Labs

Method 1613

SD-06DF

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	2.13	106.3	42:16	1.04	
$^{13}C_{12}$-OCDD	4	8.33	208.3	48:04	1.13 #	#
Cleanup Standards						
Injection Standards						
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			37:37	0.51	

Client Information

Project Name: SWP-Wilmington

Sample ID: SD-06DF

Laboratory Information

Project ID: G440-1

Sample ID: 98170R D10

Collection Date/Time: 24-Oct-00 11:00

Receipt Date: 25-Oct-00

Extraction Date: 08-Nov-00

Analysis Date: 11-Nov-00

Sample Information

Matrix: Solid

Weight / Volume: 05.99 Grams

Solids / Lipids: 63.1 %

Original pH : NA

Batch ID: WG5093

Filename: b11nov00a-9

Retchk: b11nov00a-15

Begin ConCal: b11nov00a-15

Initial Cal: m1613-b061600a

Analyzed by: HMK

Date: 28Nov00

Reviewed by: [illegible]

Date: 11/28/00

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Method 1613

SD-41DF

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (ppt)	EDL (ppt)	EMPC (ppt)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.152				
1,2,3,7,8-PeCDD	0.782			34:07	1.41	A
1,2,3,4,7,8-HxCDD	1.14			36:42	1.18	A
1,2,3,6,7,8-HxCDD	4.52			36:47	1.11	A
1,2,3,7,8,9-HxCDD	2.72			37:02	1.32	A
1,2,3,4,6,7,8-HpCDD	148			40:03	1.04	
OCDD	1540			44:16	0.88	
2,3,7,8--TCDF	EMPC	0.250	0.381	30:33	0.63	
1,2,3,7,8-PeCDF	0.442			33:18	1.52	A
2,3,4,7,8-PeCDF	3.29			33:56	1.54	A
1,2,3,4,7,8-HxCDF	1.32			35:59	1.22	A
1,2,3,6,7,8-HxCDF	1.53			36:05	1.12	A
2,3,4,6,7,8-HxCDF	3.28			36:34	1.19	A
1,2,3,7,8,9-HxCDF	ND	0.611				
1,2,3,4,6,7,8-HpCDF	55.3			38:49	1.02	
1,2,3,4,7,8,9-HpCDF	1.35			40:44	1.05	A
OCDF	76.4			44:34	0.83	
Total TCDDs	4.24		5.11			
Total PeCDDs	10.8		11.1			
Total HxCDDs	61.4		62.4			
Total HpCDDs	593					
Total TCDFs	11.9		13.2			
Total PeCDFs	35.9					
Total HxCDFs	51.1					
Total HpCDFs	117					
TEQ (ND=0)	7.17		7.21			ITEF
TEQ (ND=½)	7.29		7.32			ITEF

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-41DF		

Laboratory Information

Project ID:	G440-1		
Sample ID:	98171R		
Collection Date/Time:	24-Oct-00	12:45	
Receipt Date:	25-Oct-00		
Extraction Date:	08-Nov-00		
Analysis Date:	14-Nov-00		

Sample Information

Matrix:	Solid	
Weight / Volume:	10.00	Grams
Solids / Lipids:	29.4	%
Original pH :	NA	
Batch ID:	WG5093	
Filename:	a14nov00a-13	
Retchk:	a14nov00a-1	
Begin ConCal:	a14nov00a-1	
Initial Cal:	m1613-052699m	

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SOUTHERN WOOD PIEDMONT

Method 1613

SD-41DF

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.85	92.7	31:14	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.80	89.9	34:06	1.59	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	2.15	107.4	36:46	1.19	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	1.93	96.5	36:46	1.19	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.71	85.3	40:03	1.05	
$^{13}C_{12}$-OCDD	4	3.60	90.1	44:15	0.85	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.17	108.5	30:33	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.21	110.4	33:18	1.61	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.19	109.7	33:55	1.54	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	2.21	110.4	36:04	0.50	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.05	102.4	36:04	0.5	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.90	95.0	36:33	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.17	108.5	37:19	0.52	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.04	102.1	38:48	0.45	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.12	106.0	40:43	0.47	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.80	99.4	31:15		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:44	0.8	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:33	0.51	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-41DF

Laboratory Information

Project ID: G440-1
Sample ID: 98171R

Collection Date/Time: 24-Oct-00 12:45
Receipt Date: 25-Oct-00
Extraction Date: 08-Nov-00
Analysis Date: 14-Nov-00

Sample Information

Matrix: Solid
Weight / Volume: 10.00 Grams
Solids / Lipids: 29.4 %
Original pH : NA
Batch ID: WG5093

Filename: a14nov00a-13
Retchk: a14nov00a-1
Begin ConCal: a14nov00a-1

Initial Cal: m1613-052699m

Analyzed by: HMK
Date: 28Nov00

Reviewed by: JWK
Date: 11/28/00

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SOUTHERN WOOD PIEDMONT

Method 1613

BK-S1DF

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (ppt)	EDL (ppt)	EMPC (ppt)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.401				
1,2,3,7,8-PeCDD	ND	0.549				
1,2,3,4,7,8-HxCDD	ND	0.768				
1,2,3,6,7,8-HxCDD	ND	0.812				
1,2,3,7,8,9-HxCDD	ND	0.728				
1,2,3,4,6,7,8-HpCDD	5.86			40:05	0.96	
OCDD	144			44:18	0.83	
2,3,7,8--TCDF	ND	0.561				
1,2,3,7,8-PeCDF	ND	0.373				
2,3,4,7,8-PeCDF	ND	0.345				
1,2,3,4,7,8-HxCDF	ND	0.431				
1,2,3,6,7,8-HxCDF	ND	0.422				
2,3,4,6,7,8-HxCDF	ND	0.485				
1,2,3,7,8,9-HxCDF	ND	0.556				
1,2,3,4,6,7,8-HpCDF	EMPC	0.612	1.44	38:49	1.29	
1,2,3,4,7,8,9-HpCDF	ND	0.844				
OCDF	3.01			44:35	0.9	A
Total TCDDs	ND	0.401				
Total PeCDDs	ND	0.549				
Total HxCDDs	ND	0.768	2.67			
Total HpCDDs	18.4					
Total TCDFs	ND	0.561				
Total PeCDFs	3.01					
Total HxCDFs	1.47		3.39			
Total HpCDFs	1.77		3.21			
TEQ (ND=0)	0.206		0.220			ITEF
TEQ (ND=½)	0.884		0.896			ITEF

Client Information

Project Name:	SWP-Wilmington
Sample ID:	BK-S1DF

Laboratory Information

Project ID:	G440-1	
Sample ID:	98172R	
Collection Date/Time:	24-Oct-00	13:40
Receipt Date:	25-Oct-00	
Extraction Date:	08-Nov-00	
Analysis Date:	09-Nov-00	

Sample Information

Matrix:	Solid	
Weight / Volume:	10.75	Grams
Solids / Lipids:	72.1	%
Original pH :	NA	
Batch ID:	WG5093	
Filename:	a09nov00a-9	
Retchk:	a09nov00a-1	
Begin ConCal:	a09nov00a-1	
Initial Cal:	m1613-052699m	

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SOUTHERN WOOD PIEDMONT

Method 1613

BK-S1DF

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.83	91.7	31:15	0.82	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.69	84.5	34:07	1.48	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.99	99.7	36:42	1.3	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.10	104.8	36:48	1.29	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.62	80.9	40:05	1.05	
$^{13}C_{12}$-OCDD	4	3.02	75.5	44:17	0.83	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.11	105.7	30:34	0.78	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.97	98.5	33:19	1.64	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.01	100.3	33:55	1.61	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.92	96.0	35:59	0.53	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.98	99.0	36:06	0.53	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.90	94.9	36:34	0.54	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.11	105.3	37:21	0.53	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.88	94.1	38:49	0.48	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	1.97	98.7	40:44	0.47	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.68	84.8	31:16		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:46	0.83	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:34	0.54	

Client Information

Project Name: SWP-Wilmington
Sample ID: BK-S1DF

Laboratory Information

Project ID: G440-1
Sample ID: 98172R

Collection Date/Time: 24-Oct-00 13:40
Receipt Date: 25-Oct-00
Extraction Date: 08-Nov-00
Analysis Date: 09-Nov-00

Sample Information

Matrix: Solid
Weight / Volume: 10.75 Grams
Solids / Lipids: 72.1 %
Original pH : NA
Batch ID: WG5093

Filename: a09nov00a-9
Retchk: a09nov00a-1
Begin ConCal: a09nov00a-1

Initial Cal: m1613-052699m

Analyzed by: HMK
Date: 28Nov00

Reviewed by: [illegible]
Date: 11/28/00

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SOUTHERN WOOD PIEDMONT

Paradigm Analytical Labs

Method 1613

SS-23DF

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (ppt)	EDL (ppt)	EMPC (ppt)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.215				
1,2,3,7,8-PeCDD	ND	0.287				
1,2,3,4,7,8-HxCDD	4.39			36:46	1.22	A
1,2,3,6,7,8-HxCDD	5.14			36:46	1.22	A
1,2,3,7,8,9-HxCDD	EMPC	0.184	0.801	37:01	1.18	
1,2,3,4,6,7,8-HpCDD	229			40:03	1.03	
OCDD	3050			44:16	0.87	
2,3,7,8--TCDF	ND	0.270				
1,2,3,7,8-PeCDF	ND	0.189				
2,3,4,7,8-PeCDF	0.295			33:55	1.61	A
1,2,3,4,7,8-HxCDF	0.909			35:59	1.32	A
1,2,3,6,7,8-HxCDF	0.353			36:04	1.22	A
2,3,4,6,7,8-HxCDF	EMPC	0.395	0.590	36:34		
1,2,3,7,8,9-HxCDF	ND	0.419				
1,2,3,4,6,7,8-HpCDF	74.8			38:49	1.03	
1,2,3,4,7,8,9-HpCDF	1.50			40:43	0.99	A
OCDF	150			44:33	0.85	
Total TCDDs	1.01					
Total PeCDDs	2.92					
Total HxCDDs	55.8		60.3			
Total HpCDDs	1340					
Total TCDFs	ND	0.270				
Total PeCDFs	0.752		1.34			
Total HxCDFs	36.1					
Total HpCDFs	187					
TEQ (ND=0)	7.48		7.62			ITEF
TEQ (ND=½)	7.73		7.84			ITEF

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SS-23DF		

Laboratory Information

Project ID:	G440-1		
Sample ID:	98173R		
Collection Date/Time:	24-Oct-00	15:40	
Receipt Date:	25-Oct-00		
Extraction Date:	08-Nov-00		
Analysis Date:	14-Nov-00		

Sample Information

Matrix:	Solid	
Weight / Volume:	10.21	Grams
Solids / Lipids:	47.2	%
Original pH :	NA	
Batch ID:	WG5093	
Filename:	a14nov00a-14	
Retchk:	a14nov00a-1	
Begin ConCal:	a14nov00a-1	
Initial Cal:	m1613-052699m	

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SOUTHERN WOOD PIEDMONT

Method 1613

SS-23DF

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.06	53.0	31:14	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.03	51.4	34:06	1.6	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.27	63.5	36:46	1.16	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	1.14	57.1	36:46	1.16	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.07	53.4	40:03	1.06	
$^{13}C_{12}$-OCDD	4	2.17	54.2	44:15	0.85	
$^{13}C_{12}$-2,3,7,8-TCDF	2	1.20	60.0	30:33	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.24	61.9	33:18	1.59	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	1.25	62.7	33:55	1.58	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.32	66.1	36:04	0.50	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.23	61.3	36:04	0.5	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.16	58.0	36:33	0.5	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	1.32	66.0	37:19	0.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.25	62.6	38:47	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	1.31	65.3	40:43	0.47	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.75	93.9	31:14		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:44	0.81	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:33	0.5	

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-23DF

Laboratory Information

Project ID: G440-1
Sample ID: 98173R

Collection Date/Time: 24-Oct-00 15:40
Receipt Date: 25-Oct-00
Extraction Date: 08-Nov-00
Analysis Date: 14-Nov-00

Sample Information

Matrix: Solid
Weight / Volume: 10.21 Grams
Solids / Lipids: 47.2 %
Original pH : NA
Batch ID: WG5093

Filename: a14nov00a-14
Retchk: a14nov00a-1
Begin ConCal: a14nov00a-1

Initial Cal: m1613-052699m

Analyzed by: HMK
Date: 28Nov00

Reviewed by: [illegible]
Date: 11/28/00

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SOUTHERN WOOD PIEDMONT

Paradigm Analytical Labs

Method 1613

SS-21DF

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (ppt)	EDL (ppt)	EMPC (ppt)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.118				
1,2,3,7,8-PeCDD	EMPC	0.132	0.285	34:33	1.43	
1,2,3,4,7,8-HxCDD	EMPC	0.201	0.420	37:48	1.40	
1,2,3,6,7,8-HxCDD	3.37			37:55	1.18	A
1,2,3,7,8,9-HxCDD	0.987			38:14	1.21	A
1,2,3,4,6,7,8-HpCDD	163			42:17	1.03	
OCDD	2100			48:04	0.88	
2,3,7,8--TCDF	ND	0.0900				
1,2,3,7,8-PeCDF	0.195			33:35	1.66	A
2,3,4,7,8-PeCDF	0.488			34:20	1.56	A
1,2,3,4,7,8-HxCDF	1.69			36:53	1.26	A
1,2,3,6,7,8-HxCDF	0.750			37:01	1.16	A
2,3,4,6,7,8-HxCDF	1.14			37:39	1.35	A
1,2,3,7,8,9-HxCDF	ND	0.445				
1,2,3,4,6,7,8-HpCDF	158			40:35	1.06	
1,2,3,4,7,8,9-HpCDF	1.75			43:08	1.07	A
OCDF	160			48:26	0.87	
Total TCDDs	ND	0.251	0.428			
Total PeCDDs	3.34		4.36			
Total HxCDDs	58.3		61.3			
Total HpCDDs	1320					
Total TCDFs	0.522		1.32			
Total PeCDFs	3.66		3.99			
Total HxCDFs	70.5					
Total HpCDFs	311					
TEQ (ND=0)	6.53		6.72			ITEF
TEQ (ND=½)	6.66		6.81			ITEF

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-21DF

Laboratory Information

Project ID: G440-1
Sample ID: 98174R

Collection Date/Time: 24-Oct-00 16:15
Receipt Date: 25-Oct-00
Extraction Date: 08-Nov-00
Analysis Date: 11-Nov-00

Sample Information

Matrix: Solid
Weight / Volume: 07.02 Grams
Solids / Lipids: 75.9 %
Original pH : NA
Batch ID: WG5093

Filename: b11nov00a-4
Retchk: b11nov00a-1
Begin ConCal: b11nov00a-1

Initial Cal: m1613-b061600a

Method 1613

SS-21DF

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.70	84.9	31:19	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.60	79.9	34:33	1.58	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.85	92.3	37:48	1.26	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.06	102.8	37:55	1.25	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.92	95.8	42:15	1.05	
$^{13}C_{12}$-OCDD	4	4.06	101.5	48:02	0.89	
$^{13}C_{12}$-2,3,7,8-TCDF	2	1.68	84.2	30:40	0.77	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.62	81.1	33:35	1.56	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	1.69	84.4	34:18	1.56	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.67	83.6	36:52	0.52	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.74	87.0	36:60	0.53	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.78	88.8	37:37	0.53	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.03	101.4	38:36	0.53	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.33	116.4	40:34	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.35	117.7	43:08	0.45	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.72	90.4	31:20		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:51	0.8	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			37:37	0.53	

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-21DF

Laboratory Information

Project ID: G440-1
Sample ID: 98174R

Collection Date/Time: 24-Oct-00 16:15
Receipt Date: 25-Oct-00
Extraction Date: 08-Nov-00
Analysis Date: 11-Nov-00

Sample Information

Matrix: Solid
Weight / Volume: 07.02 Grams
Solids / Lipids: 75.9 %
Original pH : NA
Batch ID: WG5093

Filename: b11nov00a-4
Retchk: b11nov00a-1
Begin ConCal: b11nov00a-1

Initial Cal: m1613-b061600a

Analyzed by: HMK
Date: 28Nov00

Reviewed by: [illegible]
Date: 11/28/00

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SOUTHERN WOOD PIEDMONT

Method 1613

SS-19DF

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (ppt)	EDL (ppt)	EMPC (ppt)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	EMPC	0.101	0.431	31:20	0.37	
1,2,3,7,8-PeCDD	2.53			34:33	1.68	A
1,2,3,4,7,8-HxCDD	7.28			37:48	1.11	A
1,2,3,6,7,8-HxCDD	64.9			37:55	1.23	
1,2,3,7,8,9-HxCDD	16.9			38:13	1.13	
1,2,3,4,6,7,8-HpCDD	1890			42:17	1.05	
OCDD	22400			48:05	0.89	E
2,3,7,8--TCDF	EMPC	0.0927	0.372	30:40	0.91	
1,2,3,7,8-PeCDF	3.74			33:35	1.52	A
2,3,4,7,8-PeCDF	11.6			34:20	1.56	
1,2,3,4,7,8-HxCDF	82.6			36:53	1.25	
1,2,3,6,7,8-HxCDF	25.1			37:00	1.21	
2,3,4,6,7,8-HxCDF	45.6			37:38	1.22	
1,2,3,7,8,9-HxCDF	28.7			38:40	1.22	
1,2,3,4,6,7,8-HpCDF	7700			40:35	1.05	E DPE
1,2,3,4,7,8,9-HpCDF	51.2			43:09	0.92	
OCDF	6770			48:27	0.89	
Total TCDDs	4.69		5.12			
Total PeCDDs	30.5		32.4			
Total HxCDDs	690					
Total HpCDDs	11700					
Total TCDFs	9.52		10.9			
Total PeCDFs	94.6					
Total HxCDFs	3050					
Total HpCDFs	14900					
TEQ (ND=0)	160		160			ITEF
TEQ (ND=½)	160		160			ITEF

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-19DF

Laboratory Information

Project ID: G440-1
Sample ID: 98175R

Collection Date/Time: 24-Oct-00 16:40
Receipt Date: 25-Oct-00
Extraction Date: 08-Nov-00
Analysis Date: 11-Nov-00

Sample Information

Matrix: Solid
Weight / Volume: 03.55 Grams
Solids / Lipids: 77.2 %
Original pH : NA
Batch ID: WG5093

Filename: b11nov00a-5
Retchk: b11nov00a-1
Begin ConCal: b11nov00a-1

Initial Cal: m1613-b061600a

Method 1613

SS-19DF

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.93	96.4	31:19	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.75	87.6	34:32	1.58	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.93	96.5	37:48	1.25	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.06	103.0	37:55	1.23	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	2.12	105.8	42:15	1.05	
$^{13}C_{12}$-OCDD	4	5.50	137.5	48:04	0.9	
$^{13}C_{12}$-2,3,7,8-TCDF	2	1.90	95.2	30:40	0.76	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.79	89.3	33:35	1.56	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	1.83	91.6	34:18	1.56	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.71	85.3	36:52	0.53	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.77	88.3	36:60	0.52	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.83	91.4	37:37	0.53	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.15	107.7	38:36	0.53	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.53	126.4	40:34	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.48	123.8	43:08	0.45	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.77	96.3	31:20		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:50	0.8	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			37:37	0.53	

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-19DF

Laboratory Information

Project ID: G440-1
Sample ID: 98175R

Collection Date/Time: 24-Oct-00 16:40
Receipt Date: 25-Oct-00
Extraction Date: 08-Nov-00
Analysis Date: 11-Nov-00

Sample Information

Matrix: Solid
Weight / Volume: 03.55 Grams
Solids / Lipids: 77.2 %
Original pH : NA
Batch ID: WG5093

Filename: b11nov00a-5
Retchk: b11nov00a-1
Begin ConCal: b11nov00a-1

Initial Cal: m1613-b061600a

Analyzed by: HMK
Date: 28Nov00

Reviewed by: [illegible]
Date: 11/28/00

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SOUTHERN WOOD PIEDMONT

Method 1613

SS-16DF

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (ppt)	EDL (ppt)	EMPC (ppt)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	EMPC	0.0932	0.394	31:20	0.47	
1,2,3,7,8-PeCDD	2.27			34:33	1.41	A
1,2,3,4,7,8-HxCDD	7.17			37:49	1.10	
1,2,3,6,7,8-HxCDD	24.4			37:55	1.25	
1,2,3,7,8,9-HxCDD	11.5			38:13	1.20	
1,2,3,4,6,7,8-HpCDD	1150			42:17	1.05	
OCDD	10600			48:04	0.90	
2,3,7,8--TCDF	0.294			30:40	0.7	A
1,2,3,7,8-PeCDF	0.627			33:35	1.55	A
2,3,4,7,8-PeCDF	1.91			34:20	1.49	A
1,2,3,4,7,8-HxCDF	9.00			36:53	1.26	
1,2,3,6,7,8-HxCDF	4.35			37:00	1.22	A
2,3,4,6,7,8-HxCDF	9.12			37:38	1.22	
1,2,3,7,8,9-HxCDF	2.81			38:40	1.21	A
1,2,3,4,6,7,8-HpCDF	526			40:34	1.04	
1,2,3,4,7,8,9-HpCDF	15.7			43:08	1.01	
OCDF	808			48:26	0.89	
Total TCDDs	4.17		5.55			
Total PeCDDs	16.6		18.0			
Total HxCDDs	219					
Total HpCDDs	4080					
Total TCDFs	3.53		4.44			
Total PeCDFs	21.0		21.3			
Total HxCDFs	279					
Total HpCDFs	1230		1240			
TEQ (ND=0)	37.3		37.7			ITEF
TEQ (ND=½)	37.4		37.7			ITEF

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SS-16DF		

Laboratory Information

Project ID:	G440-1		
Sample ID:	98176R		
Collection Date/Time:	24-Oct-00	17:00	
Receipt Date:	25-Oct-00		
Extraction Date:	08-Nov-00		
Analysis Date:	11-Nov-00		

Sample Information

Matrix:	Solid	
Weight / Volume:	05.41	Grams
Solids / Lipids:	66.6	%
Original pH :	NA	
Batch ID:	WG5093	
Filename:	b11nov00a-6	
Retchk:	b11nov00a-1	
Begin ConCal:	b11nov00a-1	
Initial Cal:	m1613-b061600a	

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SOUTHERN WOOD PIEDMONT

Method 1613

SS-16DF

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.84	91.9	31:19	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.71	85.6	34:33	1.58	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.90	95.1	37:48	1.25	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.12	105.9	37:55	1.23	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	2.08	103.9	42:15	1.05	
$^{13}C_{12}$-OCDD	4	4.85	121.2	48:03	0.9	
$^{13}C_{12}$-2,3,7,8-TCDF	2	1.86	93.1	30:40	0.77	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.75	87.5	33:35	1.54	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	1.80	89.8	34:18	1.55	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.71	85.5	36:52	0.53	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.80	90.0	36:60	0.52	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.84	91.9	37:37	0.53	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.13	106.3	38:36	0.53	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.37	118.7	40:34	0.45	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.44	122.0	43:08	0.45	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.76	94.8	31:20		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:51	0.8	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			37:37	0.53	

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-16DF

Laboratory Information

Project ID: G440-1
Sample ID: 98176R

Collection Date/Time: 24-Oct-00 17:00
Receipt Date: 25-Oct-00
Extraction Date: 08-Nov-00
Analysis Date: 11-Nov-00

Sample Information

Matrix: Solid
Weight / Volume: 05.41 Grams
Solids / Lipids: 66.6 %
Original pH : NA
Batch ID: WG5093

Filename: b11nov00a-6
Retchk: b11nov00a-1
Begin ConCal: b11nov00a-1

Initial Cal: m1613-b061600a

Analyzed by: HMK
Date: 28Nov00

Reviewed by: MM
Date: 11/28/00

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SOUTHERN WOOD PIEDMONT

Method 1613

SD-40DF

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (ppt)	EDL (ppt)	EMPC (ppt)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.0883				
1,2,3,7,8-PeCDD	ND	0.144				
1,2,3,4,7,8-HxCDD	ND	0.244				
1,2,3,6,7,8-HxCDD	0.353			37:56	1.42	A
1,2,3,7,8,9-HxCDD	ND	0.236				
1,2,3,4,6,7,8-HpCDD	12.4			42:17	1.04	
OCDD	181			48:04	0.87	
2,3,7,8--TCDF	ND	0.110				
1,2,3,7,8-PeCDF	ND	0.0748				
2,3,4,7,8-PeCDF	0.459			34:20	1.77	A
1,2,3,4,7,8-HxCDF	0.185			36:54	1.43	A
1,2,3,6,7,8-HxCDF	EMPC	0.108	0.179	37:00	1.19	
2,3,4,6,7,8-HxCDF	0.323			37:38	1.34	A
1,2,3,7,8,9-HxCDF	ND	0.140				
1,2,3,4,6,7,8-HpCDF	2.74			40:35	1.12	A
1,2,3,4,7,8,9-HpCDF	ND	0.229				
OCDF	6.85			48:26	0.91	
Total TCDDs	ND	0.242	0.185			
Total PeCDDs	ND	0.304	0.408			
Total HxCDDs	2.08					
Total HpCDDs	47.3		47.3			
Total TCDFs	0.560					
Total PeCDFs	2.72		3.55			
Total HxCDFs	4.35		4.53			
Total HpCDFs	7.12					
TEQ (ND=0)	0.655		0.673			ITEF
TEQ (ND=½)	0.780		0.792			ITEF

Client Information

Project Name:	SWP-Wilmington
Sample ID:	SD-40DF

Laboratory Information

Project ID:	G440-1
Sample ID:	98177R
Collection Date/Time:	24-Oct-00 17:30
Receipt Date:	25-Oct-00
Extraction Date:	08-Nov-00
Analysis Date:	11-Nov-00

Sample Information

Matrix:	Solid	
Weight / Volume:	09.98	Grams
Solids / Lipids:	73.7	%
Original pH :	NA	
Batch ID:	WG5093	
Filename:	b11nov00a-7	
Retchk:	b11nov00a-1	
Begin ConCal:	b11nov00a-1	
Initial Cal:	m1613-b061600a	

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SOUTHERN WOOD PIEDMONT

Paradigm Analytical Labs

Method 1613

SD-40DF

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.73	86.7	31:19	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.58	79.2	34:32	1.59	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.74	87.2	37:48	1.26	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.01	100.3	37:55	1.25	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.87	93.4	42:16	1.05	
$^{13}C_{12}$-OCDD	4	3.38	84.5	48:02	0.89	
$^{13}C_{12}$-2,3,7,8-TCDF	2	1.76	87.8	30:40	0.77	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.64	81.9	33:35	1.57	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	1.69	84.4	34:18	1.55	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.61	80.3	36:52	0.52	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.71	85.3	36:60	0.53	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.73	86.6	37:37	0.53	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	1.98	98.9	38:36	0.53	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.26	113.0	40:34	0.45	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.28	114.2	43:08	0.45	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.76	95.3	31:20		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:51	0.8	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			37:37	0.53	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-40DF

Laboratory Information

Project ID: G440-1
Sample ID: 98177R

Collection Date/Time: 24-Oct-00 17:30
Receipt Date: 25-Oct-00
Extraction Date: 08-Nov-00
Analysis Date: 11-Nov-00

Sample Information

Matrix: Solid
Weight / Volume: 09.98 Grams
Solids / Lipids: 73.7 %
Original pH : NA
Batch ID: WG5093

Filename: b11nov00a-7
Retchk: b11nov00a-1
Begin ConCal: b11nov00a-1

Initial Cal: m1613-b061600a

Analyzed by: HMK
Date: 28 Nov 00

Reviewed by: [illegible]
Date: 11/28/00

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SOUTHERN WOOD PIEDMONT

Paradigm Analytical Labs

Method 1613

SD-40DF-Dup.

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (ppt)	EDL (ppt)	EMPC (ppt)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.0779				
1,2,3,7,8-PeCDD	ND	0.0974				
1,2,3,4,7,8-HxCDD	EMPC	0.133	0.160	37:49	1.44	
1,2,3,6,7,8-HxCDD	EMPC	0.141	0.419	37:56	1.12	
1,2,3,7,8,9-HxCDD	EMPC	0.132	0.360	38:14	1.71	
1,2,3,4,6,7,8-HpCDD	14.2			42:17	1.05	
OCDD	209			48:04	0.90	
2,3,7,8--TCDF	ND	0.0974				
1,2,3,7,8-PeCDF	ND	0.0706				
2,3,4,7,8-PeCDF	0.492			34:20	1.48	A
1,2,3,4,7,8-HxCDF	0.203			36:54	1.37	A
1,2,3,6,7,8-HxCDF	EMPC	0.116	0.189	37:02	1.04	
2,3,4,6,7,8-HxCDF	0.354			37:38	1.23	A
1,2,3,7,8,9-HxCDF	ND	0.157				
1,2,3,4,6,7,8-HpCDF	2.88			40:35	1.01	A
1,2,3,4,7,8,9-HpCDF	ND	0.186				
OCDF	7.96			48:26	0.93	
Total TCDDs	ND	0.225				
Total PeCDDs	0.279		0.695			
Total HxCDDs	2.16		3.25			
Total HpCDDs	56.1		56.1			
Total TCDFs	1.05		1.14			
Total PeCDFs	3.63		4.67			
Total HxCDFs	4.29		4.48			
Total HpCDFs	7.67					
TEQ (ND=0)	0.689		0.802			ITEF
TEQ (ND=½)	0.794		0.881			ITEF

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-40DF-Dup.		

Laboratory Information

Project ID:	G440-1		
Sample ID:	98178R		
Collection Date/Time:	24-Oct-00	17:40	
Receipt Date:	25-Oct-00		
Extraction Date:	08-Nov-00		
Analysis Date:	11-Nov-00		

Sample Information

Matrix:	Solid	
Weight / Volume:	09.97	Grams
Solids / Lipids:	74.1	%
Original pH :	NA	
Batch ID:	WG5093	
Filename:	b11nov00a-8	
Retchk:	b11nov00a-1	
Begin ConCal:	b11nov00a-1	
Initial Cal:	m1613-b061600a	

SOUTHERN WOOD PIEDMONT

Method 1613

SD-40DF-Dup.

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.80	89.8	31:19	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.62	81.1	34:32	1.58	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.77	88.7	37:48	1.26	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.09	104.7	37:55	1.24	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.87	93.3	42:16	1.05	
$^{13}C_{12}$-OCDD	4	3.36	83.9	48:02	0.9	
$^{13}C_{12}$-2,3,7,8-TCDF	2	1.82	91.0	30:40	0.77	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.68	84.1	33:35	1.58	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	1.73	86.6	34:19	1.56	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.67	83.5	36:52	0.52	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.78	89.0	37:00	0.53	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.78	89.1	37:37	0.53	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.07	103.7	38:37	0.53	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.28	114.2	40:34	0.45	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.30	114.8	43:08	0.45	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.78	97.1	31:20		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:51	0.8	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			37:37	0.53	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-40DF-Dup.

Laboratory Information

Project ID: G440-1
Sample ID: 98178R

Collection Date/Time: 24-Oct-00 17:40
Receipt Date: 25-Oct-00
Extraction Date: 08-Nov-00
Analysis Date: 11-Nov-00

Sample Information

Matrix: Solid
Weight / Volume: 09.97 Grams
Solids / Lipids: 74.1 %
Original pH : NA
Batch ID: WG5093

Filename: b11nov00a-8
Retchk: b11nov00a-1
Begin ConCal: b11nov00a-1

Initial Cal: m1613-b061600a

Analyzed by: HMK
Date: 28Nov00

Reviewed by: [illegible]
Date: 11/28/00

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SOUTHERN WOOD PIEDMONT

Paradigm Analytical Labs

Method 1613

Equip102400DF

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (ppt)	EDL (ppt)	EMPC (ppt)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.0047				
1,2,3,7,8-PeCDD	ND	0.0040				
1,2,3,4,7,8-HxCDD	ND	0.0053				
1,2,3,6,7,8-HxCDD	ND	0.0055				
1,2,3,7,8,9-HxCDD	ND	0.0050				
1,2,3,4,6,7,8-HpCDD	ND	0.0056				
OCDD	EMPC	0.0196	0.0187	45:29	1.17	
2,3,7,8--TCDF	ND	0.0019				
1,2,3,7,8-PeCDF	ND	0.0028				
2,3,4,7,8-PeCDF	ND	0.0027				
1,2,3,4,7,8-HxCDF	ND	0.0033				
1,2,3,6,7,8-HxCDF	ND	0.0031				
2,3,4,6,7,8-HxCDF	ND	0.0036				
1,2,3,7,8,9-HxCDF	ND	0.0044				
1,2,3,4,6,7,8-HpCDF	ND	0.0031				
1,2,3,4,7,8,9-HpCDF	ND	0.0043				
OCDF	ND	0.0288				
Total TCDDs	ND	0.0047				
Total PeCDDs	ND	0.0040				
Total HxCDDs	ND	0.0052				
Total HpCDDs	ND	0.0056				
Total TCDFs	ND	0.0019				
Total PeCDFs	ND	0.0027				
Total HxCDFs	ND	0.0036				
Total HpCDFs	ND	0.0036				
TEQ (ND=0)	0.0000		0.0000			ITEF
TEQ (ND=½)	0.0058		0.0058			ITEF

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	Equip102400DF		

Laboratory Information

Project ID:	G440-1		
Sample ID:	98179		
Collection Date/Time:	24-Oct-00	14:45	
Receipt Date:	25-Oct-00		
Extraction Date:	31-Oct-00		
Analysis Date:	03-Nov-00		

Sample Information

Matrix:	Aqueous	
Weight / Volume:	504	mL
Solids / Lipids:	NA	
Original pH :	5	
Batch ID:	WG5073	
Filename:	a02nov00b_2-3	
Retchk:	a02nov00b-15	
Begin ConCal:	a02nov00b-15	
Initial Cal:	m1613-052699m	

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Paradigm Analytical Labs

Method 1613

Equip102400DF

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	1	0.73	73.1	31:50	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	1	0.75	74.8	34:38	1.55	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	1	0.83	83.0	37:22	1.2	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1	0.98	97.6	37:28	1.17	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	1	0.63	63.4	40:57	1.1	
$^{13}C_{12}$-OCDD	2	0.80	39.8	45:27	0.85	
$^{13}C_{12}$-2,3,7,8-TCDF	1	0.82	82.2	31:20	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1	0.88	87.6	33:49	1.61	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1	0.88	87.8	34:27	1.59	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1	0.79	79.0	36:37	0.48	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1	0.88	88.4	36:43	0.49	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1	0.87	86.5	37:14	0.5	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1	0.87	87.2	38:03	0.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1	0.74	74.1	39:37	0.45	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1	0.73	72.7	41:40	0.45	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.4	0.33	83.0	31:51		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			31:27	0.84	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			37:14	0.5	

Client Information

Project Name: SWP-Wilmington
Sample ID: Equip102400DF

Laboratory Information

Project ID: G440-1
Sample ID: 98179

Collection Date/Time: 24-Oct-00 14:45
Receipt Date: 25-Oct-00
Extraction Date: 31-Oct-00
Analysis Date: 03-Nov-00

Sample Information

Matrix: Aqueous
Weight / Volume: 504 mL
Solids / Lipids: NA
Original pH : 5
Batch ID: WG5073

Filename: a02nov00b_2-3
Retchk: a02nov00b-15
Begin ConCal: a02nov00b-15

Initial Cal: m1613-052699m

Analyzed by: HMK
Date: 28Nov00

Reviewed by: [illegible]
Date: 11/28/00

Method 1613 - QC BLANK Results

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Analytical Data Summary Sheet

Analyte	Amount (ppt)	EDL (ppt)	EMPC (ppt)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.0032				
1,2,3,7,8-PeCDD	ND	0.0034				
1,2,3,4,7,8-HxCDD	ND	0.0087				
1,2,3,6,7,8-HxCDD	ND	0.0090				
1,2,3,7,8,9-HxCDD	ND	0.0081				
1,2,3,4,6,7,8-HpCDD	ND	0.0080				
OCDD	ND	0.0163				
2,3,7,8--TCDF	ND	0.0014				
1,2,3,7,8-PeCDF	ND	0.0026				
2,3,4,7,8-PeCDF	ND	0.0024				
1,2,3,4,7,8-HxCDF	ND	0.0032				
1,2,3,6,7,8-HxCDF	ND	0.0031				
2,3,4,6,7,8-HxCDF	ND	0.0036				
1,2,3,7,8,9-HxCDF	ND	0.0042				
1,2,3,4,6,7,8-HpCDF	ND	0.0041				
1,2,3,4,7,8,9-HpCDF	ND	0.0062				
OCDF	ND	0.0214				
Total TCDDs	ND	0.0032				
Total PeCDDs	ND	0.0034				
Total HxCDDs	ND	0.0085				
Total HpCDDs	ND	0.0080				
Total TCDFs	ND	0.0014				
Total PeCDFs	ND	0.0025				
Total HxCDFs	ND	0.0035				
Total HpCDFs	ND	0.0050				
TEQ (ND=0)	0.0000		0.0000			ITEF
TEQ (ND=½)	0.0053		0.0053			ITEF

Laboratory Information

Sample ID: WG5073-1

Extraction Date: 31-Oct-00

Analysis Date: 03-Nov-00

Sample Information

Matrix: Water

Weight / Volume: 500 mL

Solids / Lipids: NA

Original pH : 5

Batch ID: WG5073

Filename: a02nov00b_2-2

Retchk: a02nov00b-15

Begin ConCal: a02nov00b-15

Initial Cal: m1613-052699m

Method 1613 - QC BLANK Results

LMB

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	1.0	0.78	77.8	31:50	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	1.0	0.72	71.8	34:38	1.58	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	1.0	0.79	78.9	37:22	1.19	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1.0	0.94	93.8	37:27	1.2	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	1.0	0.55	55.4	40:57	1.08	
$^{13}C_{12}$-OCDD	2.0	0.64	32.0	45:27	0.81	
$^{13}C_{12}$-2,3,7,8-TCDF	1.0	0.86	86.4	31:20	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1.0	0.81	81.0	33:49	1.58	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1.0	0.83	83.0	34:27	1.59	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1.0	0.79	78.9	36:36	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1.0	0.85	85.2	36:43	0.5	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1.0	0.80	79.9	37:13	0.5	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1.0	0.83	83.2	38:03	0.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1.0	0.68	67.5	39:37	0.44	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1.0	0.63	62.5	41:40	0.47	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.4	0.59	147.3	31:51		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2.0			31:27	0.86	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2.0			37:13	0.5	

Laboratory Information

Sample ID: WG5073-1

Extraction Date: 31-Oct-00
Analysis Date: 03-Nov-00

Sample Information

Matrix: Water
Weight / Volume: 500 mL
Solids / Lipids: NA
Original pH : 5
Batch ID: WG5073

Filename: a02nov00b_2-2
Retchk: a02nov00b-15
Begin ConCal: a02nov00b-15

Initial Cal: m1613-052699m

Reviewed by: TLM

Date Reviewed: 11/8/00

Method 1613 - QC BLANK Results

LMB

Analytical Data Summary Sheet

Analyte	Amount (ppt)	EDL (ppt)	EMPC (ppt)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.261				
1,2,3,7,8-PeCDD	ND	0.270				
1,2,3,4,7,8-HxCDD	ND	0.347				
1,2,3,6,7,8-HxCDD	ND	0.350				
1,2,3,7,8,9-HxCDD	ND	0.322				
1,2,3,4,6,7,8-HpCDD	ND	0.613				
OCDD	ND	1.320				
2,3,7,8--TCDF	ND	0.258				
1,2,3,7,8-PeCDF	ND	0.1630				
2,3,4,7,8-PeCDF	ND	0.1570				
1,2,3,4,7,8-HxCDF	ND	0.227				
1,2,3,6,7,8-HxCDF	ND	0.218				
2,3,4,6,7,8-HxCDF	ND	0.260				
1,2,3,7,8,9-HxCDF	ND	0.267				
1,2,3,4,6,7,8-HpCDF	ND	0.325				
1,2,3,4,7,8,9-HpCDF	ND	0.423				
OCDF	ND	0.832				
Total TCDDs	ND	0.261				
Total PeCDDs	ND	0.270				
Total HxCDDs	ND	0.339				
Total HpCDDs	ND	0.613				
Total TCDFs	ND	0.258				
Total PeCDFs	ND	0.1600				
Total HxCDFs	ND	0.244				
Total HpCDFs	ND	0.371				
TEQ (ND=0)	0.0000		0.0000			ITEF
TEQ (ND=½)	0.362		0.362			ITEF

Laboratory Information

Sample ID: WG5093-1

Extraction Date: 08-Nov-00

Analysis Date: 09-Nov-00

Sample Information

Matrix:	Solid	
Weight / Volume:	10.0	Grams
Solids / Lipids:	100.0	%
Original pH :	NA	
Batch ID:	WG5093	
Filename:	a09nov00a-3	
Retchk:	a09nov00a-1	
Begin ConCal:	a09nov00a-1	
Initial Cal:	m1613-052699m	

Method 1613 - QC BLANK Results

LMB

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2.0	1.96	98.0	31:16	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2.0	1.81	90.3	34:07	1.53	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2.0	2.12	106	36:43	1.28	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2.0	2.12	106	36:48	1.29	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2.0	1.76	88.0	40:05	1.06	
$^{13}C_{12}$-OCDD	4.0	3.44	86.0	44:18	0.82	
$^{13}C_{12}$-2,3,7,8-TCDF	2.0	2.21	111	30:35	0.77	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2.0	2.00	100	33:19	1.62	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2.0	2.06	103	33:56	1.6	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2.0	1.90	94.9	36:00	0.52	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2.0	1.99	99.3	36:06	0.53	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2.0	1.92	96.0	36:35	0.53	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2.0	2.19	110	37:21	0.54	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2.0	1.98	98.8	38:50	0.47	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2.0	2.15	107	40:45	0.47	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.69	86.8	31:17		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2.0			30:47	0.84	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2.0			36:35	0.53	

Laboratory Information

Sample ID: WG5093-1

Extraction Date: 08-Nov-00

Analysis Date: 09-Nov-00

Sample Information

Matrix:	Solid	
Weight / Volume:	10.0	Grams
Solids / Lipids:	100.0	%
Original pH :	NA	
Batch ID:	WG5093	
Filename:	a09nov00a-3	
Retchk:	a09nov00a-1	
Begin ConCal:	a09nov00a-1	
Initial Cal:	m1613-052699m	

Reviewed by: [signature]

Date Reviewed: 8/13/00

Analytical Results
for
Ongoing Precision Result (OPR)

Analyte	Spiked	AMT	REC	Range pg/ul		Flag
	pg/ul	pg/ul	%	Lower	Upper	
2,3,7,8-TCDD	5.00	5.10	102	3.4	7.9	
1,2,3,7,8-PeCDD	12.5	13.6	108	8.8	17.8	
1,2,3,4,7,8-HxCDD	12.5	12.3	98.3	8.8	20.5	
1,2,3,6,7,8-HxCDD	12.5	12.0	96.0	9.5	16.7	
1,2,3,7,8,9-HxCDD	12.5	11.8	94.5	8.0	20.3	
1,2,3,4,6,7,8-HpCDD	12.5	11.9	95.2	8.8	17.5	
OCDD	25.0	22.3	89.0	19.5	36.0	
2,3,7,8-TCDF	5.00	4.15	82.9	3.8	7.9	
1,2,3,7,8-PeCDF	12.5	11.0	87.7	10.0	16.8	
2,3,4,7,8-PeCDF	12.5	10.9	87.6	8.5	20.0	
1,2,3,4,7,8-HxCDF	12.5	11.6	92.8	9.0	16.8	
1,2,3,6,7,8-HxCDF	12.5	11.1	88.5	10.5	16.3	
2,3,4,6,7,8-HxCDF	12.5	12.1	96.5	8.8	19.5	
1,2,3,7,8,9-HxCDF	12.5	10.1	80.7	9.8	16.3	
1,2,3,4,6,7,8-HpCDF	12.5	10.7	85.7	10.3	15.3	
1,2,3,4,7,8,9-HpCDF	12.5	10.3	82.2	9.8	17.3	
OCDF	25.0	23.2	92.7	18.5	36.5	

= Outside range limits
* = Ion Ratio Out

QC Information

OPR Project No:	WG5073
Extraction Date:	31-Oct-00
Analysis Date:	3-NOV-00
Method:	1613

Sample Information

Matrix:	Water

File Information

OPR Filename :	a02nov00b_2-1
Retchk:	a02nov00b-15
Begin ConCal:	a02nov00b-15
Initial Cal:	m1613-052699m

Analytical Results
for
Ongoing Precision Result (OPR)

Labeled Standard	Spiked pg/ul	AMT pg/ul	REC %	Range pg/ul Lower	Range pg/ul Upper	Flag
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	50.0	37.3	74.5	10.0	87.5	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	50.0	38.7	77.4	10.5	113.5	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	50.0	44.9	89.8	10.5	96.5	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	50.0	48.6	97.2	12.5	81.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	50.0	34.2	68.4	13.0	83.0	
$^{13}C_{12}$-OCDD	100	44.1	44.1	13.0	198.5	
$^{13}C_{12}$-2,3,7,8-TCDF	50.0	43.8	87.7	11.0	76.0	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	50.0	43.6	87.3	10.5	96.0	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	50.0	44.9	89.8	6.5	164.0	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	50.0	41.6	83.1	9.5	101.0	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	50.0	45.6	91.2	10.5	79.5	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	50.0	43.7	87.4	22.0	88.0	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	50.0	45.9	91.9	8.5	102.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	50.0	38.5	76.9	10.5	79.0	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	50.0	38.1	76.1	10.0	93.0	
Cleanup Standards						
$^{37}C_{14}$-2,3,7,8-TCDD	20.0	16.8	83.9	6.2	38.2	

QC Information

OPR Project No: WG5073
Extraction Date: 31-Oct-00
Analysis Date: 3-NOV-00
Method: 1613

File Information

OPR Filename : a02nov00b_2-1
Retchk: a02nov00b-15
Begin ConCal: a02nov00b-15
Initial Cal: m1613-052699m

Sample Information

Matrix: Water

Reviewed by: [illegible]

Date Reviewed: 11/8/00

Analytical Results
for
Ongoing Precision Result (OPR)

Analyte	Spiked	AMT	REC	Range pg/ul		Flag
	pg/ul	pg/ul	%	Lower	Upper	
2,3,7,8-TCDD	10.0	8.81	88.1	6.7	15.8	
1,2,3,7,8-PeCDD	25.0	25.4	102	17.5	35.5	
1,2,3,4,7,8-HxCDD	25.0	23.3	93.3	17.5	41.0	
1,2,3,6,7,8-HxCDD	25.0	22.7	90.8	19.0	33.4	
1,2,3,7,8,9-HxCDD	25.0	23.1	92.6	16.0	40.5	
1,2,3,4,6,7,8-HpCDD	25.0	24.1	96.6	17.5	35.0	
OCDD	50.0	48.1	96.3	39.0	72.0	
2,3,7,8-TCDF	10.0	7.85	78.5	7.5	15.8	
1,2,3,7,8-PeCDF	25.0	23.5	93.8	20.0	33.5	
2,3,4,7,8-PeCDF	25.0	23.2	92.7	17.0	40.0	
1,2,3,4,7,8-HxCDF	25.0	24.2	96.9	18.0	33.5	
1,2,3,6,7,8-HxCDF	25.0	24.6	98.5	21.0	32.5	
2,3,4,6,7,8-HxCDF	25.0	26.0	104	17.5	39.0	
1,2,3,7,8,9-HxCDF	25.0	22.3	89.4	19.5	32.5	
1,2,3,4,6,7,8-HpCDF	25.0	22.6	90.5	20.5	30.5	
1,2,3,4,7,8,9-HpCDF	25.0	21.2	84.7	19.5	34.5	
OCDF	50.0	47.5	94.9	37.0	73.0	

= Outside range limits
* = Ion Ratio Out

QC Information

OPR Project No:	WG5093
Extraction Date:	09-Nov-00
Analysis Date:	9-NOV-00
Method:	1613

Sample Information

Matrix:	Soild

File Information

OPR Filename :	a09nov00a-2
Retchk:	a09nov00a-1
Begin ConCal:	a09nov00a-1
Initial Cal:	m1613-052699m

Analytical Results
for
Ongoing Precision Result (OPR)

Labeled Standard	Spiked pg/ul	AMT pg/ul	REC %	Range pg/ul Lower	Range pg/ul Upper	Flag
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	100	99.7	99.7	20	175	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	100	92.9	92.9	21	227	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	100	101	101	21	193	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	100	103	103	25	163	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	100	89.4	89.4	26	166	
$^{13}C_{12}$-OCDD	200	184	92.1	26	397	
$^{13}C_{12}$-2,3,7,8-TCDF	100	110	110	22	152	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	100	99.8	99.8	21	192	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	100	104	104	13	328	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	100	95.3	95.3	19	202	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	100	95.3	95.3	21	159	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	100	92.1	92.1	22	176	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	100	108	108	17	205	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	100	99.2	99.2	21	158	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	100	108	108	20	186	
Cleanup Standards						
$^{37}C_{14}$-2,3,7,8-TCDD	40.0	35.7	89.2	12.4	76.4	

QC Information

OPR Project No: WG5093
Extraction Date: 09-Nov-00
Analysis Date: 9-NOV-00
Method: 1613

File Information

OPR Filename : a09nov00a-2
Retchk: a09nov00a-1
Begin ConCal: a09nov00a-1
Initial Cal: m1613-052699m

Sample Information

Matrix: Soild

Reviewed by: [illegible]

Date Reviewed: 11/13/00

Paradigm Analytical Labs

Sample Receipt Checklist (SRC)

Client: Schnabel Eng. Assoc. Lab Proj. ID: G440-1

Client Proj. ID: SWP-Wilmington

1. ___ Shipped
   X Hand Delivered
   Notes:

2. X COC Present on Receipt
   ___ No COC
   ___ Additional Transmittal Forms
   Notes:

3. ___ Custody Tape on Container
   X No Custody Tape
   Notes:

4. X Samples Intact
   ___ Samples Broken / Leaking
   ___ VOA Vials Checked for Air Bubbles
   Notes:

5. ___ Chilled on Receipt Actual Temp.(s) in °C: on ice
   ___ Ambient on Receipt
   X Walk-in on Ice; Coming down to temp.
   Notes:

6. X Sufficient Sample Submitted
   ___ Insufficient Sample Submitted
   Notes:

7. ___ Samples Preserved Correctly
   ___ Improper Preservative(s)
   X None recommended (N/A)
   (see preservative checklist where applicable)
   Notes:

8. X Received Within Holding Time
   ___ Not Received Within Holding Time
   ___ N/A
   Notes:

9. X No Discrepancies Noted
   ___ Discrepancies Noted
   ___ No COC Received
   Notes:

Comments:

Inspected and Logged in by: SSS

Date / Time: Wed-10/25/00 16:05

DC27.022100.1

PARADIGM ANALYTICAL LABORATORIES, INC.
2627 Northchase Parkway SE, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC# 17884

Page 1 of 2

Contact: Gregory B. Kuntz
Phone: 803-796-6240
P.O. No.:
Quote #:

Client: Schnabel Eng. Assoc.
Address: 104 Corporate Blvd.
Address: Suite 420
Address: W. Columbia, SC 29169

Date: 10/24/00
T.A.T. (Std 21): Standard
Project ID: SWP-Wilmington
Job Number: 979007.A0.23

Report To: Sandra Watson
Southern Wood Piedmont
P.O. Box 5447
Spartanburg, SC 29304

Invoice To: Same as above.

Sample ID (Sample ID / SWP Log #)	Date	Time	Matrix	Method 1613: 2378-TCDD	1613: 2378-TCDD/F	1613: Tetra-Octa	Method 8290: 2378-TCDD	8290: 2378-TCDD/F	8290: Tetra-Octa	Method 8280: 2378-TCDD	8280: 2378-TCDD/F	8280: Appendix IX	8280: Tetra-Octa	Other	Comments
SS-9DF 17184	10/24/00	8:00	Solid/Semi-solid			X*									*SWP-Wilmington Dioxin-Furan
SS-10A-DF 17185	↓	8:55	↓			↓									Site-specific constituent list
SD-07DF 17186		10:10													and analytical requirements
SD-06DF 17187		11:00													PQL, MDL, & SQL
SD-41DF 17188		12:45													
BK-S1DF 17189		13:40													G440-1
SS-23DF 17190		15:40													
SS-21DF 17191		16:15													
SS-19DF 17192		16:40													
SS-16DF 17193	↓	17:00	↓			↓									

Report: Full ☐ Summary ☒
EDD: No ☐ Yes ☐

Relinquished By	Date	Time	Received By	Date	Time	Temp	Sampled	Airbill #
Gregory B. Kuntz	10/25/00	11:10	Ellen Hagan	10/25/00	1110	ONICE		
						WALK IN		

ORIGINAL

PARAD[illegible] ANALYTICAL LABORATORIES, INC.
2627 Northchase Parkway SE, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC# 1.[illegible]

Page 2 of 2

Contact: Gregory B. Kuntz
Phone: 803-796-6240
P.O. No.:
Quote #:

Client: Schnabel Eng. Assoc.
Address: 104 Corporate Blvd.
Address: Suite 420
Address: W. Columbia, SC 29169

Date: 10/24/00
T.A.T. (Std 21): Standard
Project ID: SWP-Wilmington
Job Number: 979007.A0.23

Report To: Sandra Watson
Southern Wood Piedmont
P.O. Box 5447
Spartanburg, SC 29304
Invoice To: Same as above

Sample ID	Date	Time	Matrix	Method: 1613 2378-TCDD	1613 2378-TCDD/F	1613 Tetra-Octa	8290 2378-TCDD	8290 2378-TCDD/F	8290 Tetra-Octa	8280 2378-TCDD	8280 2378-TCDD/F	8280 Appendix IX	8280 Tetra-Octa	Other	Comments
Sample ID / SWP Log# SD-40DF 17194	10/24/00	17:30	Solid/Semi-Solid			X*									* SWP-Wilmington Dioxin-Furan
SD-40DF-Dup! 17195	↓	17:40	↓			↓									Site-Specific Constituent List
Equip102400DF 17196	↓	14:45	Liquid			↓									and analytical requirements
															PQL, MDL + SQL
															6440-1

Report:
Full ☐
Summary ☒
EDD: No ☐
Yes ☐

Relinquished By	Date	Time	Received By	Date	Time	Temp	Sampled	Airbill #
Gregory B. Kuntz	10/25/00	11:10	[illegible]	10/25/00	1110	ON ICE		
						Warm		

ORIGINAL

JW
G. Kurtz

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PARADIGM ANALYTICAL LABORATORIES, INC.
2627 Northchase Parkway S.E.
Wilmington, North Carolina 28405
(910) 350-1903
Fax (910) 350-1557

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Friday, January 26, 2001

Ms. Sandra Watson
Southern Wood Piedmont
591 Springfield Road
Spartanburg, SC 29304

Dear Ms. Watson:

Enclosed are the final results for the samples received by Paradigm Analytical Laboratories, Inc. on January 12, 2001 under your Project Name "SWP-Wilmington". The samples were analyzed by Method 1613 following Paradigm's Standard Operating Procedures. Please see Page 1A of this report for the case narrative.

A summary data package has been provided.

No. of Samples Received:	**16 solids; 1 water**
Your Project Number:	**979007.A0-27**
PAL Project No.:	**G440-2**

We appreciate your business and look forward to working with you again. Please contact me if you have questions or need additional technical support.

Sincerely,

Christopher K. Cornwell

Christopher K. Cornwell
Assistant Director

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Case Narrative
Paradigm Project G440-2

Client Project No.: 979007.AO-27
Client Project Name: SWP-Wilmington

No. of Samples Received: 16 Solids; 1 Water
No. of Samples Analyzed: 17

No. of LMBs: 4
No. of OPRs: 4

- Dilution of several of the extracts was required to improve the chromatography and the quality of the data for some homologues. A diluted extract is indicated by a "D*" following the Paradigm Sample ID, with the "*" indicating the amount of the dilution. There is no need to adjust the reported concentrations.
- For samples requiring a second analysis (dilution), the total sample TEQ is the sum of the TEQ from each analysis.

Martha Maier

Martha Maier
Senior Chemist

January 26, 2001

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Table 1: Toxic Equivalency Factors

Analyte	World Health Organization	International-89	MADEP
2,3,7,8-TCDD	1	1	1
1,2,3,7,8-PeCDD	1	0.5	0.5
1,2,3,4,7,8-HxCDD	0.1	0.1	0.1
1,2,3,6,7,8-HxCDD	0.1	0.1	0.1
1,2,3,7,8,9-HxCDD	0.1	0.1	0.1
1,2,3,4,6,7,8-HpCDD	0.01	0.01	0.1
OCDD	0.0001	0.001	0.001
2,3,7,8-TCDF	0.1	0.1	0.1
1,2,3,7,8-PeCDF	0.05	0.05	0.5
2,3,4,7,8-PeCDF	0.5	0.5	0.5
1,2,3,4,7,8-HxCDF	0.1	0.1	0.1
1,2,3,6,7,8-HxCDF	0.1	0.1	0.1
2,3,4,6,7,8-HxCDF	0.1	0.1	0.1
1,2,3,7,8,9-HxCDF	0.1	0.1	0.1
1,2,3,4,6,7,8-HpCDF	0.01	0.01	0.1
1,2,3,4,7,8,9-HpCDF	0.01	0.01	0.1
OCDF	0.0001	0.001	0.001

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Table 2. List of Qualifiers

A	Amount detected is less than the Calibration Limit
B	Analyte was detected in the LMB at a level above the RL or EDL.
E	Amount detected is over the Method Calibration Limit
DPE	Denotes the presence of possible polychlorinated diphenylethers
EDL	"Estimated Detection Limit"
EMPC	"Estimated Maximum Possible Concentration"
ppt	Parts-per-trillion (pg/g; ng/L)
Q	Indicates the presence of quantitative interferences. They generally result in an underestimation of the affected total homologue groups.
V	Recovery is lower than 40%. The data has been validated based on a favorable signal-to-noise and detection limit.
#	Outside recovery limits
*	See cover letter

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Table 3: Method 1613 Standard Recovery Criteria

Analyte	Recovery Limit (%)
^{13}C-2378-TCDD	25-164
^{13}C-12378-PeCDD	25-181
^{13}C-123478-HxCDD	32-141
^{13}C-123678-HxCDD	28-130
^{13}C-1234678-HpCDD	23-140
^{13}C-OCDD	17-157
^{13}C-2378-TCDF	24-169
^{13}C-12378-PeCDF	24-185
^{13}C-23478-PeCDF	21-178
^{13}C-123478-HxCDF	26-152
^{13}C-123678-HxCDF	26-123
^{13}C-123789-HxCDF	29-147
^{13}C-234678-HxCDF	28-136
^{13}C-1234678-HpCDF	28-143
^{13}C-1234789-HpCDF	26-138
^{37}Cl-2378-TCDD	35-197

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Table 4: Practical Quantitation Limits
(Lower Limit of Calibration Curve)

Analyte	Method 1613	
	Solid PQL (ppt)	Aqueous PQL (ppq)
2378-TCDD	0.5	10
12378-PECDD	2.5	50
123478-HXCDD	2.5	50
123678-HXCDD	2.5	50
123789-HXCDD	2.5	50
1234678-HPCDD	2.5	50
OCDD	5	100
2378-TCDF	0.5	10
12378-PECDF	2.5	50
23478-PECDF	2.5	50
123478-HXCDF	2.5	50
123678-HXCDF	2.5	50
234678-HXCDF	2.5	50
123789-HXCDF	2.5	50
1234678-HPCDF	2.5	50
1234789-HPCDF	2.5	50
OCDF	5	100

Paradigm Analytical Labs

Method: 1613
Prep. Method: 3540C
Analyst: Mike Medwedeff, Heather Keen
Date: Jun-00
Instrument ID: HRMS-2
Analytical Column: 60M DB-5MS
Detector: HRMS

Matrix: Soil
Sample Weight/Volume: 10 g
Spike Conc.: 1, 2.5, 5 ppt
Spike Amount: 10, 25, 50 pg
Report Conc. units: ppt
PAL Project No.: G100-98

Analyte	87484 Rep. 1	87485 Rep. 2	87486 Rep. 3	87487 Rep. 4	87488 Rep. 5	87489 Rep. 6	87490 Rep. 7	MDL (ppt)
2,3,7,8-TCDD	0.9700	0.9710	1.0000	0.9950	0.9650	1.0300	0.9630	0.078
1,2,3,7,8-PeCDD	2.3200	2.2900	2.2900	2.3700	2.3500	2.3300	2.3500	0.097
1,2,3,4,7,8-HxCDD	2.4600	2.5000	2.6000	2.5900	2.5600	2.5600	2.5800	0.161
1,2,3,6,7,8-HxCDD	2.1600	2.2100	2.2700	2.2700	2.2300	2.2200	2.1900	0.126
1,2,3,7,8,9-HxCDD	2.2700	2.4500	2.4200	2.4600	2.4600	2.5400	2.4600	0.258
1,2,3,4,6,7,8-HpCDD	2.7600	2.7100	2.6200	2.7400	2.6600	2.6400	2.7300	0.170
OCDD	5.8700	5.8100	5.8300	5.3800	5.5400	5.3700	5.4400	0.70
2,3,7,8-TCDF	1.0600	1.0500	1.1100	1.0400	0.9980	0.9800	1.0200	0.135
1,2,3,7,8-PeCDF	2.2900	2.3500	2.3300	2.4100	2.4500	2.3700	2.3900	0.166
2,3,4,7,8-PeCDF	2.0900	2.2400	2.1700	2.2800	2.2700	2.2300	2.2300	0.207
1,2,3,4,7,8-HxCDF	2.3000	2.4600	2.4300	2.4800	2.4300	2.3700	2.3700	0.196
1,2,3,6,7,8-HxCDF	2.3200	2.4600	2.2800	2.3100	2.4400	2.4000	2.4000	0.218
2,3,4,6,7,8-HxCDF	2.5000	2.6300	2.5800	2.5800	2.6500	2.6100	2.5900	0.151
1,2,3,7,8,9-HxCDF	2.3300	2.3400	2.4700	2.2800	2.3800	2.4000	2.3600	0.188
1,2,3,4,6,7,8-HpCDF	2.1900	2.2000	2.2800	2.3400	2.3300	2.3500	2.2400	0.211
1,2,3,4,7,8,9-HpCDF	2.3400	2.2900	2.2500	2.4000	2.4400	2.4200	2.4400	0.240
OCDF	4.6200	4.5900	4.6900	4.6900	4.7100	4.7300	4.8700	0.283

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Method: 1613
Prep. Method: 3520C (MEX)
Analyst: MRM-HMK
Date: Oct-00
Instrument ID: HRMS-1
Analytical Column: 60M DB-5MS
Detector: HRMS

Matrix: Water
Sample Weight/Volume: 500 ml
Spike Conc.: .01,.025,.05
Spike Amount: 5, 12.5, 25 pg
Report Conc. units: ppt
PAL Project No.: G100-127

Analyte	Rep. 1	Rep. 2	Rep. 3	Rep. 4	Rep. 5	Rep. 6	Rep. 7	SD	MDL (ppq)
2,3,7,8-TCDD	0.0093	0.0103	0.0090	0.0100	0.0100	0.0107	0.0112	0.0006	2.37
1,2,3,7,8-PeCDD	0.0272	0.0251	0.0253	0.0265	0.0254	0.0251	0.0236	0.0009	3.65
1,2,3,4,7,8-HxCDD	0.0276	0.0246	0.0295	0.0301	0.0245	0.0278	0.0267	0.0024	6.90
1,2,3,6,7,8-HxCDD	0.0229	0.0228	0.0249	0.0279	0.0234	0.0235	0.0223	0.0019	6.02
1,2,3,7,8,9-HxCDD	0.0245	0.0229	0.0255	0.0251	0.0258	0.0239	0.0234	0.0011	3.40
1,2,3,4,6,7,8-HpCDD	0.0308	0.0276	0.0275	0.0287	0.0288	0.0264	0.0268	0.0015	4.65
OCDD	0.0647	0.0594	0.0644	0.0614	0.0794	0.0561	0.0588	0.0081	24.06
2,3,7,8-TCDF	0.0084	0.0081	0.0090	0.0086	0.0078	0.0086	0.0073	0.0004	1.78
1,2,3,7,8-PeCDF	0.0230	0.0239	0.0232	0.0245	0.0232	0.0239	0.0223	0.0006	2.25
2,3,4,7,8-PeCDF	0.0213	0.0210	0.0210	0.0216	0.0210	0.0209	0.0219	0.0003	1.28
1,2,3,4,7,8-HxCDF	0.0279	0.0234	0.0244	0.0238	0.0251	0.0258	0.0257	0.0016	4.75
1,2,3,6,7,8-HxCDF	0.0256	0.0228	0.0255	0.0248	0.0252	0.0240	0.0263	0.0011	3.65
2,3,4,6,7,8-HxCDF	0.0287	0.0268	0.0296	0.0266	0.0268	0.0263	0.0300	0.0014	4.92
1,2,3,7,8,9-HxCDF	0.0247	0.0233	0.0252	0.0240	0.0244	0.0242	0.0256	0.0007	2.45
1,2,3,4,6,7,8-HpCDF	0.0241	0.0247	0.0256	0.0230	0.0232	0.0241	0.0235	0.0010	2.90
1,2,3,4,7,8,9-HpCDF	0.0224	0.0255	0.0226	0.0254	0.0244	0.0235	0.0246	0.0014	3.94
OCDF	0.0587	0.0531	0.0571	0.0560	0.0590	0.0574	0.0568	0.0021	6.09

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Method 1613

SD-35 SWP Log#17338

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	EMPC	0.0452	0.342	31:03	0.65	
1,2,3,7,8-PeCDD	2.11			33:56	1.53	A
1,2,3,4,7,8-HxCDD	9.84			36:28	1.11	
1,2,3,6,7,8-HxCDD	153			36:33	1.15	
1,2,3,7,8,9-HxCDD	21.0			36:47	1.10	
2,3,7,8--TCDF	0.995			30:13	0.75	
1,2,3,7,8-PeCDF	3.13			33:08	1.50	
2,3,4,7,8-PeCDF	15.0			33:46	1.56	
1,2,3,4,7,8-HxCDF	39.5			35:46	1.15	
1,2,3,6,7,8-HxCDF	11.4			35:52	1.16	
2,3,4,6,7,8-HxCDF	22.8			36:21	1.16	
1,2,3,7,8,9-HxCDF	12.3			37:07	1.15	
Total TCDDs	8.72		9.74			Q
Total PeCDDs	44.9					Q
Total HxCDDs	1810					
Total TCDFs	29.4		29.6			Q DPE
Total PeCDFs	122					Q DPE
Total HxCDFs	1500					DPE
ITEF TEQ (ND=0)	35.8		36.1			*
ITEF TEQ (ND=½)	35.8		36.1			*

Client Information

Project Name:	SWP-Wilmington
Sample ID:	SD-35 SWP Log#17338

Laboratory Information

Project ID:	G440-2	
Sample ID:	12807	
Collection Date/Time:	10-Jan-01	13:00
Receipt Date:	12-Jan-01	
Extraction Date:	15-Jan-01	
Analysis Date:	19-Jan-01	

Sample Information

Matrix:	Solid	
Weight / Volume:	17.58	Grams
Solids / Lipids:	60.6	%
Original pH :	NA	
Batch ID:	WG5198	
Filename:	a18jan01a-14	
Retchk:	a18jan01a-1	
Begin ConCal:	a18jan01a-1	
Initial Cal:	m1613-052699m	

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Method 1613

SD-35 SWP Log#17338

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	2.06	102.8	31:02	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	2.22	110.9	33:56	1.57	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	2.04	102.2	36:27	1.19	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.23	111.5	36:33	1.18	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.33	116.7	30:12	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.50	125.0	33:08	1.53	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.60	129.9	33:44	1.54	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.97	98.6	35:46	0.50	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.02	101.2	35:52	0.48	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.90	94.9	36:20	0.49	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.24	111.9	37:05	0.49	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.75	93.3	31:03		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:26	0.81	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:20	0.49	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-35 SWP Log#17338

Laboratory Information

Project ID: G440-2
Sample ID: 12807

Collection Date/Time: 10-Jan-01 13:00
Receipt Date: 12-Jan-01
Extraction Date: 15-Jan-01
Analysis Date: 19-Jan-01

Analyzed by: HMP
Date: 23 Jan 01

Sample Information

Matrix: Solid
Weight / Volume: 17.58 Grams
Solids / Lipids: 60.6 %
Original pH : NA
Batch ID: WG5198

Filename: a18jan01a-14
Retchk: a18jan01a-1
Begin ConCal: a18jan01a-1

Initial Cal: m1613-052699m

Reviewed by: [illegible]

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Method 1613

SD-35 SWP Log#17338

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
1,2,3,4,6,7,8-HpCDD	9600			39:46	1.01	
OCDD	81700			43:52	0.88	
1,2,3,4,6,7,8-HpCDF	2720			38:32	1.07	
1,2,3,4,7,8,9-HpCDF	43.4			40:25	1.06	A
OCDF	5900			44:10	0.86	
Total HpCDDs	54700					
Total HpCDFs	7490					
ITEF TEQ (ND=0)	211		211			*
ITEF TEQ (ND=½)	211		211			*

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-35 SWP Log#17338

Laboratory Information

Project ID: G440-2
Sample ID: 12807 D50

Collection Date/Time: 10-Jan-01 13:00
Receipt Date: 12-Jan-01
Extraction Date: 15-Jan-01
Analysis Date: 24-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 17.58 Grams
Solids / Lipids: 60.6 %
Original pH : NA
Batch ID: WG5198

Filename: a23jan01a_2-3
Retchk: a23jan01a-15
Begin ConCal: a23jan01a-15

Initial Cal: 516-052699m

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Method 1613

SD-35 SWP Log#17338

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.67	83.5	39:45	1.02	
$^{13}C_{12}$-OCDD	4	3.91	97.8	43:52	1.22	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.02	101.2	38:31	0.5	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.35	117.7	40:23	0.41	
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:25	0.83	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:19	0.53	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-35 SWP Log#17338

Laboratory Information

Project ID: G440-2
Sample ID: 12807 D50

Collection Date/Time: 10-Jan-01 13:00
Receipt Date: 12-Jan-01
Extraction Date: 15-Jan-01
Analysis Date: 24-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 17.58 Grams
Solids / Lipids: 60.6 %
Original pH : NA
Batch ID: WG5198

Filename: a23jan01a_2-3
Retchk: a23jan01a-15
Begin ConCal: a23jan01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 26Jan01

Reviewed by: [illegible]
Date: [illegible]

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Method 1613

SD-34 SWP Log#17339

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	2.51			31:03	0.69	A
1,2,3,7,8-PeCDD	10.6			33:57	1.53	A
1,2,3,4,7,8-HxCDD	34.7			36:29	1.13	
1,2,3,6,7,8-HxCDD	347			36:34	1.15	
1,2,3,7,8,9-HxCDD	80.1			36:48	1.13	
2,3,7,8--TCDF	4.98			30:15	0.76	
1,2,3,7,8-PeCDF	12.4			33:09	1.52	A
2,3,4,7,8-PeCDF	39.0			33:46	1.54	
1,2,3,4,7,8-HxCDF	127			35:47	1.16	
1,2,3,6,7,8-HxCDF	73.4			35:53	1.17	
2,3,4,6,7,8-HxCDF	86.3			36:21	1.23	
1,2,3,7,8,9-HxCDF	40.8			37:08	1.24	
1,2,3,4,6,7,8-HpCDF	10200			38:33	1.13	
1,2,3,4,7,8,9-HpCDF	139			40:26	1.16	
OCDF	10300			44:13	0.83	
Total TCDDs	34.0		35.6			
Total PeCDDs	133		201			
Total HxCDDs	4300					
Total TCDFs	105		106			DPE
Total PeCDFs	394		396			DPE
Total HxCDFs	4920					DPE
Total HpCDFs	21600					
ITEF TEQ (ND=0)	221		221			*
ITEF TEQ (ND=½)	221		221			*

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-34 SWP Log#17339		
Laboratory Information			
Project ID:	G440-2		
Sample ID:	12808R		
Collection Date/Time:	10-Jan-01	14:05	
Receipt Date:	12-Jan-01		
Extraction Date:	23-Jan-01		
Analysis Date:	25-Jan-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	04.96	Grams
Solids / Lipids:	30.3	%
Original pH :	NA	
Batch ID:	WG5212	
Filename:	a24jan01b-11	
Retchk:	a24jan01b-1	
Begin ConCal:	a24jan01b-1	
Initial Cal:	m1613-052699m	

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Method 1613

SD-34 SWP Log#17339

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	2.05	102.3	31:02	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	2.01	100.7	33:56	1.57	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	2.17	108.4	36:28	1.15	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.25	112.4	36:33	1.14	
$^{13}C_{12}$-OCDD	4	6.47	161.8	43:55	0.96	#
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.20	110.0	30:13	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.27	113.7	33:09	1.56	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.23	111.7	33:45	1.53	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	2.09	104.7	35:46	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.16	108.0	35:52	0.5	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	2.05	102.3	36:20	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.43	121.4	37:06	0.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.21	110.4	38:33	0.5	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.35	117.7	40:25	0.48	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.77	96.1	31:03		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:27	0.8	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:20	0.51	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-34 SWP Log#17339

Laboratory Information

Project ID: G440-2
Sample ID: 12808R

Collection Date/Time: 10-Jan-01 14:05
Receipt Date: 12-Jan-01
Extraction Date: 23-Jan-01
Analysis Date: 25-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 04.96 Grams
Solids / Lipids: 30.3 %
Original pH : NA
Batch ID: WG5212

Filename: a24jan01b-11
Retchk: a24jan01b-1
Begin ConCal: a24jan01b-1

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 26Jan01

Reviewed by: [illegible]
Date: 1/26/01

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Method 1613

SD-34 SWP Log#17339

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
1,2,3,4,6,7,8-HpCDD	17200			39:47	1.07	
OCDD	182000			43:54	0.88	
Total HpCDDs	93500					
ITEF TEQ (ND=0)	354		354			*
ITEF TEQ (ND=½)	354		354			*

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-34 SWP Log#17339		

Laboratory Information

Project ID:	G440-2	
Sample ID:	12808R	D10
Collection Date/Time:	10-Jan-01	14:05
Receipt Date:	12-Jan-01	
Extraction Date:	23-Jan-01	
Analysis Date:	26-Jan-01	

Sample Information

Matrix:	Solid	
Weight / Volume:	04.96	Grams
Solids / Lipids:	30.3	%
Original pH :	NA	
Batch ID:	WG5212	
Filename:	a25jan01a-13	
Retchk:	a25jan01a-1	
Begin ConCal:	a25jan01a-1	
Initial Cal:	m1613-052699m	

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Method 1613

SD-34 SWP Log#17339

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	2.01	100.4	39:46	1.05	
$^{13}C_{12}$-OCDD	4	5.17	129.3	43:53	0.97	
Injection Standards						
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:20	0.51	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-34 SWP Log#17339

Laboratory Information

Project ID: G440-2
Sample ID: 12808R D10

Collection Date/Time: 10-Jan-01 14:05
Receipt Date: 12-Jan-01
Extraction Date: 23-Jan-01
Analysis Date: 26-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 04.96 Grams
Solids / Lipids: 30.3 %
Original pH : NA
Batch ID: WG5212

Filename: a25jan01a-13
Retchk: a25jan01a-1
Begin ConCal: a25jan01a-1

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 26Jan01

Reviewed by: [illegible]
Date: 1/26/01

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SOUTHERN WOOD PIEDMONT

Method 1613

SD-09 SWP Log#17340

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	EMPC	0.168	0.612	31:03	0.42	
1,2,3,7,8-PeCDD	1.87			33:57	1.47	A
1,2,3,4,7,8-HxCDD	8.65			36:29	1.18	A
1,2,3,6,7,8-HxCDD	128			36:34	1.14	
1,2,3,7,8,9-HxCDD	19.6			36:48	1.21	
2,3,7,8--TCDF	1.40			30:15	0.87	A
1,2,3,7,8-PeCDF	3.72			33:10	1.50	A
2,3,4,7,8-PeCDF	10.4			33:46	1.44	
1,2,3,4,7,8-HxCDF	28.8			35:47	1.22	
1,2,3,6,7,8-HxCDF	10.3			35:52	1.31	
2,3,4,6,7,8-HxCDF	17.3			36:21	1.15	
1,2,3,7,8,9-HxCDF	10.0			37:08	1.23	
1,2,3,4,6,7,8-HpCDF	2050			38:33	1.13	
1,2,3,4,7,8,9-HpCDF	37.6			40:26	1.15	
OCDF	3330			44:12	0.81	
Total TCDDs	3.21		6.07			
Total PeCDDs	40.1					
Total HxCDDs	1510					
Total TCDFs	18.4		19.4			DPE
Total PeCDFs	84.8					
Total HxCDFs	1120					DPE
Total HpCDFs	5330					
ITEF TEQ (ND=0)	52.9		53.5			*
ITEF TEQ (ND=½)	53.0		53.5			*

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-09 SWP Log#17340		

Sample Information

Matrix:	Solid	
Weight / Volume:	04.97	Grams
Solids / Lipids:	50.6	%
Original pH :	NA	

Laboratory Information

Project ID:	G440-2	Batch ID:	WG5212
Sample ID:	12809R		
		Filename:	a24jan01b-12
Collection Date/Time:	10-Jan-01 14:30	Retchk:	a24jan01b-1
Receipt Date:	12-Jan-01	Begin ConCal:	a24jan01b-1
Extraction Date:	23-Jan-01		
Analysis Date:	25-Jan-01	Initial Cal:	m1613-052699m

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Method 1613

SD-09 SWP Log#17340

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	2.09	104.3	31:02	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	2.03	101.5	33:56	1.55	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	2.07	103.4	36:28	1.18	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.14	107.0	36:33	1.16	
$^{13}C_{12}$-OCDD	4	5.72	143.1	43:55	0.92	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.25	112.5	30:13	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.30	114.8	33:09	1.53	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.27	113.7	33:45	1.53	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.94	97.2	35:46	0.50	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.99	99.4	35:52	0.49	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.93	96.6	36:20	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.35	117.4	37:06	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.02	100.9	38:33	0.49	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.19	109.4	40:25	0.49	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.75	93.8	31:03		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:27	0.8	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:20	0.51	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-09 SWP Log#17340

Laboratory Information

Project ID: G440-2
Sample ID: 12809R

Collection Date/Time: 10-Jan-01 14:30
Receipt Date: 12-Jan-01
Extraction Date: 23-Jan-01
Analysis Date: 25-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 04.97 Grams
Solids / Lipids: 50.6 %
Original pH : NA
Batch ID: WG5212

Filename: a24jan01b-12
Retchk: a24jan01b-1
Begin ConCal: a24jan01b-1

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 26 Jan 01

Reviewed by: [illegible]
Date: 1/24/01

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Method 1613

SD-09 SWP Log#17340

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
1,2,3,4,6,7,8-HpCDD	7190			39:47	1.06	
OCDD	83100			43:53	0.85	
Total HpCDDs	42600					
ITEF TEQ (ND=0)	155		155			*
ITEF TEQ (ND=½)	155		155			*

Client Information

Project Name:	SWP-Wilmington		**Sample Information**		
Sample ID:	SD-09 SWP Log#17340		Matrix:	Solid	
			Weight / Volume:	04.97	Grams
Laboratory Information			Solids / Lipids:	50.6	%
			Original pH :	NA	
Project ID:	G440-2		Batch ID:	WG5212	
Sample ID:	12809R	D10			
			Filename:	a25jan01a-14	
Collection Date/Time:	10-Jan-01	14:30	Retchk:	a25jan01a-1	
Receipt Date:	12-Jan-01		Begin ConCal:	a25jan01a-1	
Extraction Date:	23-Jan-01				
Analysis Date:	26-Jan-01		Initial Cal:	m1613-052699m	

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Method 1613

SD-09 SWP Log#17340

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	2.05	102.3	39:46	1.05	
$^{13}C_{12}$-OCDD	4	5.08	127.1	43:53	0.91	
Injection Standards						
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:20	0.5	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-09 SWP Log#17340

Laboratory Information

Project ID: G440-2
Sample ID: 12809R D10

Collection Date/Time: 10-Jan-01 14:30
Receipt Date: 12-Jan-01
Extraction Date: 23-Jan-01
Analysis Date: 26-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 04.97 Grams
Solids / Lipids: 50.6 %
Original pH : NA
Batch ID: WG5212

Filename: a25jan01a-14
Retchk: a25jan01a-1
Begin ConCal: a25jan01a-1

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 26Jan01

Reviewed by: [illegible]
Date: 1/26/01

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SOUTHERN WOOD PIEDMONT

Method 1613

SD-33 SWP Log#17341

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8–TCDD	EMPC	0.0382	0.110	31:20	0.32	
1,2,3,7,8-PeCDD	0.329			34:34	1.74	A
1,2,3,4,7,8-HxCDD	1.48			37:49	1.10	A
1,2,3,6,7,8-HxCDD	15.9			37:56	1.2	
1,2,3,7,8,9-HxCDD	2.78			38:15	1.09	
1,2,3,4,6,7,8-HpCDD	978			42:18	1.06	
OCDD	11700			48:08	0.90	E
2,3,7,8–TCDF	0.266			30:42	0.87	A
1,2,3,7,8-PeCDF	0.285			33:35	1.49	A
2,3,4,7,8-PeCDF	0.817			34:21	1.59	A
1,2,3,4,7,8-HxCDF	2.81			36:54	1.27	
1,2,3,6,7,8-HxCDF	0.861			37:02	1.21	A
2,3,4,6,7,8-HxCDF	1.74			37:39	1.21	A
1,2,3,7,8,9-HxCDF	0.839			38:41	1.13	A
1,2,3,4,6,7,8-HpCDF	169			40:36	1.05	
1,2,3,4,7,8,9-HpCDF	4.23			43:10	1.07	
OCDF	480			48:30	0.9	
Total TCDDs	0.435		0.659			
Total PeCDDs	4.79		5.22			Q
Total HxCDDs	205					
Total HpCDDs	5630					
Total TCDFs	1.19		1.77			
Total PeCDFs	6.97		7.90			Q DPE
Total HxCDFs	113		114			DPE
Total HpCDFs	543					
ITEF TEQ (ND=0)	26.9		27.1			
ITEF TEQ (ND=½)	27.0		27.1			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-33 SWP Log#17341		

Laboratory Information

Project ID:	G440-2		
Sample ID:	12810		
Collection Date/Time:	10-Jan-01	14:55	
Receipt Date:	12-Jan-01		
Extraction Date:	15-Jan-01		
Analysis Date:	18-Jan-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	14.41	Grams
Solids / Lipids:	75.6	%
Original pH :	NA	
Batch ID:	WG5198	
Filename:	b17jan01a_2-3	
Retchk:	b17jan01a-15	
Begin ConCal:	b17jan01a-15	
Initial Cal:	m1613-b061600a	

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Method 1613

SD-33 SWP Log#17341

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	2.06	103.0	31:19	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	2.00	100.1	34:33	1.57	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.99	99.6	37:48	1.26	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.37	118.5	37:55	1.25	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	2.59	129.5	42:17	1.06	
$^{13}C_{12}$-OCDD	4	7.63	190.7	48:07	0.92	#
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.18	109.0	30:40	0.77	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.08	103.8	33:35	1.56	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.15	107.7	34:19	1.53	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.90	94.9	36:53	0.52	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.01	100.3	37:01	0.53	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	2.02	100.8	37:38	0.53	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.34	116.9	38:38	0.53	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.67	133.4	40:35	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.96	148.2	43:09	0.46	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.79	99.3	31:20		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:51	0.8	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			37:38	0.53	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-33 SWP Log#17341

Laboratory Information

Project ID: G440-2
Sample ID: 12810

Collection Date/Time: 10-Jan-01 14:55
Receipt Date: 12-Jan-01
Extraction Date: 15-Jan-01
Analysis Date: 18-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 14.41 Grams
Solids / Lipids: 75.6 %
Original pH : NA
Batch ID: WG5198

Filename: b17jan01a_2-3
Retchk: b17jan01a-15
Begin ConCal: b17jan01a-15

Initial Cal: m1613-b061600a

Analyzed by: HMP
Date: 26Jan01

Reviewed by: [illegible]
Date: 1/26/01

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Method 1613

SD-32 SWP Log#17342

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	EMPC	0.0378	0.228	31:20	0.63	
1,2,3,7,8-PeCDD	1.46			34:34	1.42	A
1,2,3,4,7,8-HxCDD	6.05			37:50	1.36	
1,2,3,6,7,8-HxCDD	59.3			37:57	1.26	
1,2,3,7,8,9-HxCDD	13.5			38:15	1.38	
1,2,3,4,6,7,8-HpCDD	3260			42:18	1.04	E
2,3,7,8--TCDF	0.936			30:41	0.8	
1,2,3,7,8-PeCDF	1.76			33:36	1.59	A
2,3,4,7,8-PeCDF	6.25			34:21	1.6	
1,2,3,4,7,8-HxCDF	15.1			36:54	1.25	
1,2,3,6,7,8-HxCDF	5.94			37:02	1.27	
2,3,4,6,7,8-HxCDF	10.2			37:39	1.28	
1,2,3,7,8,9-HxCDF	4.59			38:41	1.19	
1,2,3,4,6,7,8-HpCDF	1030			40:36	1.05	
1,2,3,4,7,8,9-HpCDF	18.1			43:10	1.05	
OCDF	1780			48:31	0.9	
Total TCDDs	5.39		5.99			Q
Total PeCDDs	27.4					Q
Total HxCDDs	799					
Total HpCDDs	18900					
Total TCDFs	15.0		15.6			DPE
Total PeCDFs	62.7		62.9			Q
Total HxCDFs	610					DPE
Total HpCDFs	2570					DPE
ITEF TEQ (ND=0)	60.4		60.6			*
ITEF TEQ (ND=½)	60.4		60.6			*

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-32 SWP Log#17342		
Laboratory Information			
Project ID:	G440-2		
Sample ID:	12811		
Collection Date/Time:	10-Jan-01 15:20		
Receipt Date:	12-Jan-01		
Extraction Date:	15-Jan-01		
Analysis Date:	18-Jan-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	19.31	Grams
Solids / Lipids:	55.3	%
Original pH :	NA	
Batch ID:	WG5198	
Filename:	b17jan01a_2-4	
Retchk:	b17jan01a-15	
Begin ConCal:	b17jan01a-15	
Initial Cal:	m1613-b061600a	

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Method 1613

SD-32 SWP Log#17342

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	2.01	100.3	31:19	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.94	96.9	34:33	1.58	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.83	91.7	37:48	1.27	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.19	109.6	37:55	1.25	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	2.26	113.0	42:17	1.05	
$^{13}C_{12}$-OCDD	4	6.82	170.5	48:10	0.98	#
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.12	106.1	30:40	0.77	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.04	101.9	33:35	1.55	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.09	104.3	34:19	1.54	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.73	86.7	36:53	0.52	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.86	93.0	37:01	0.53	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.86	92.9	37:38	0.53	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.21	110.4	38:38	0.53	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.38	119.1	40:35	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.72	135.9	43:09	0.46	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.78	97.1	31:20		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:51	0.8	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			37:38	0.53	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-32 SWP Log#17342

Laboratory Information

Project ID: G440-2
Sample ID: 12811

Collection Date/Time: 10-Jan-01 15:20
Receipt Date: 12-Jan-01
Extraction Date: 15-Jan-01
Analysis Date: 18-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 19.31 Grams
Solids / Lipids: 55.3 %
Original pH : NA
Batch ID: WG5198

Filename: b17jan01a_2-4
Retchk: b17jan01a-15
Begin ConCal: b17jan01a-15

Initial Cal: m1613-b061600a

Analyzed by: HMP
Date: 26 Jan 01

Reviewed by: [illegible]
Date: 1/26/01

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Method 1613

SD-32 SWP Log#17342

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
OCDD	33900			43:52	0.86	E

Client Information

Project Name:	SWP-Wilmington	
Sample ID:	SD-32 SWP Log#17342	

Laboratory Information

Project ID:	G440-2	
Sample ID:	12811	D5
Collection Date/Time:	10-Jan-01	15:20
Receipt Date:	12-Jan-01	
Extraction Date:	15-Jan-01	
Analysis Date:	19-Jan-01	

Sample Information

Matrix:	Solid	
Weight / Volume:	19.31	Grams
Solids / Lipids:	55.3	%
Original pH :	NA	
Batch ID:	WG5198	
Filename:	a18jan01a_2-9	
Retchk:	a18jan01a-15	
Begin ConCal:	a18jan01a-15	
Initial Cal:	m1613-052699m	

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Method 1613

SD-32 SWP Log#17342

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-OCDD	4	6.01	150.3	43:52	0.97	
Injection Standards						
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:19	0.49	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-32 SWP Log#17342

Laboratory Information

Project ID: G440-2
Sample ID: 12811 D5

Collection Date/Time: 10-Jan-01 15:20
Receipt Date: 12-Jan-01
Extraction Date: 15-Jan-01
Analysis Date: 19-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 19.31 Grams
Solids / Lipids: 55.3 %
Original pH : NA
Batch ID: WG5198

Filename: a18jan01a_2-9
Retchk: a18jan01a-15
Begin ConCal: a18jan01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 23Jan01

Reviewed by: [illegible]
Date: 1/23/01

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SOUTHERN WOOD PIEDMONT

Method 1613

SS-11 SWP Log#17343

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	EMPC	0.0539	0.225	31:02	0.58	
1,2,3,7,8-PeCDD	1.35			33:56	1.53	A
1,2,3,4,7,8-HxCDD	9.41			36:28	1.32	
1,2,3,6,7,8-HxCDD	98.0			36:33	1.14	
1,2,3,7,8,9-HxCDD	16.1			36:47	1.18	
2,3,7,8--TCDF	0.922			30:13	0.81	
1,2,3,7,8-PeCDF	3.53			33:08	1.60	
2,3,4,7,8-PeCDF	9.44			33:45	1.49	
1,2,3,4,7,8-HxCDF	35.0			35:46	1.12	
1,2,3,6,7,8-HxCDF	9.59			35:51	1.13	
2,3,4,6,7,8-HxCDF	18.0			36:20	1.13	
1,2,3,7,8,9-HxCDF	12.4			37:07	1.17	
1,2,3,4,6,7,8-HpCDF	3140			38:32	1.03	E
1,2,3,4,7,8,9-HpCDF	38.9			40:25	1.07	
OCDF	2700			44:12	0.83	
Total TCDDs	4.61		5.12			
Total PeCDDs	38.9		39.6			
Total HxCDDs	1310					
Total TCDFs	7.98		9.73			DPE
Total PeCDFs	65.9					DPE
Total HxCDFs	1460					DPE
Total HpCDFs	6930					DPE
ITEF TEQ (ND=0)	60.0		60.2			*
ITEF TEQ (ND=½)	60.0		60.2			*

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-11 SWP Log#17343

Laboratory Information

Project ID: G440-2
Sample ID: 12812

Collection Date/Time: 10-Jan-01 16:10
Receipt Date: 12-Jan-01
Extraction Date: 18-Jan-01
Analysis Date: 19-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 12.74 Grams
Solids / Lipids: 77.5 %
Original pH : NA
Batch ID: WG5205

Filename: a18jan01a_2-3
Retchk: a18jan01a-15
Begin ConCal: a18jan01a-15

Initial Cal: m1613-052699m

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Method 1613

SS-11 SWP Log#17343

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	2.01	100.6	31:01	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	2.14	107.0	33:55	1.55	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	2.10	104.9	36:27	1.18	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.22	111.0	36:33	1.17	
$^{13}C_{12}$-OCDD	4	6.93	173.2	43:56	1.03	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.29	114.3	30:12	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.26	113.0	33:08	1.54	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.47	123.4	33:44	1.5	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	2.01	100.5	35:45	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.08	104.0	35:51	0.49	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	2.00	99.9	36:20	0.5	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.22	111.2	37:05	0.48	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.42	121.0	38:32	0.48	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.17	108.7	40:24	0.46	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.72	90.3	31:02		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:25	0.8	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:20	0.5	

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-11 SWP Log#17343

Laboratory Information

Project ID: G440-2
Sample ID: 12812

Collection Date/Time: 10-Jan-01 16:10
Receipt Date: 12-Jan-01
Extraction Date: 18-Jan-01
Analysis Date: 19-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 12.74 Grams
Solids / Lipids: 77.5 %
Original pH : NA
Batch ID: WG5205

Filename: a18jan01a_2-3
Retchk: a18jan01a-15
Begin ConCal: a18jan01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 23 Jan 01

Reviewed by: [illegible]
Date: 1/23/01

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Method 1613

SS-11 SWP Log#17343

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
1,2,3,4,6,7,8-HpCDD	5410			39:46	1.02	
OCDD	54000			43:52	0.88	
Total HpCDDs	34300					
ITEF TEQ (ND=0)	108		108			*
ITEF TEQ (ND=½)	108		108			*

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SS-11 SWP Log#17343		

Laboratory Information

Project ID:	G440-2		
Sample ID:	12812	D50	
Collection Date/Time:	10-Jan-01	16:10	
Receipt Date:	12-Jan-01		
Extraction Date:	18-Jan-01		
Analysis Date:	24-Jan-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	12.74	Grams
Solids / Lipids:	77.5	%
Original pH :	NA	
Batch ID:	WG5205	
Filename:	a23jan01a_2-4	
Retchk:	a23jan01a-15	
Begin ConCal:	a23jan01a-15	
Initial Cal:	m1613-052699m	

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Method 1613

SS-11 SWP Log#17343

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.74	87.1	39:45	1.1	
$^{13}C_{12}$-OCDD	4	4.64	116.1	43:51	1.05	
Injection Standards						
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:19	0.52	

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-11 SWP Log#17343

Laboratory Information

Project ID: G440-2
Sample ID: 12812 D50

Collection Date/Time: 10-Jan-01 16:10
Receipt Date: 12-Jan-01
Extraction Date: 18-Jan-01
Analysis Date: 24-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 12.74 Grams
Solids / Lipids: 77.5 %
Original pH : NA
Batch ID: WG5205

Filename: a23jan01a_2-4
Retchk: a23jan01a-15
Begin ConCal: a23jan01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 25 Jan 01

Reviewed by: [illegible]
Date: 1/25/01

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SOUTHERN WOOD PIEDMONT

Method 1613

SD-31 SWP Log#17344

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.0345				
1,2,3,7,8-PeCDD	0.322			34:34	1.44	A
1,2,3,4,7,8-HxCDD	0.979			37:50	1.14	A
1,2,3,6,7,8-HxCDD	10.1			37:56	1.2	
1,2,3,7,8,9-HxCDD	2.51			38:15	1.18	A
1,2,3,4,6,7,8-HpCDD	563			42:18	1.03	
OCDD	6890			48:07	0.90	E
2,3,7,8--TCDF	0.292			30:40	0.78	A
1,2,3,7,8-PeCDF	0.316			33:35	1.42	A
2,3,4,7,8-PeCDF	1.26			34:21	1.59	A
1,2,3,4,7,8-HxCDF	3.44			36:54	1.28	
1,2,3,6,7,8-HxCDF	1.50			37:02	1.22	A
2,3,4,6,7,8-HxCDF	2.41			37:39	1.25	A
1,2,3,7,8,9-HxCDF	1.01			38:41	1.22	A
1,2,3,4,6,7,8-HpCDF	233			40:36	1.04	
1,2,3,4,7,8,9-HpCDF	4.00			43:10	1.06	
OCDF	427			48:29	0.9	
Total TCDDs	1.53		1.86			
Total PeCDDs	5.94		6.22			Q
Total HxCDDs	141					
Total HpCDDs	3280					
Total TCDFs	2.84		3.93			
Total PeCDFs	13.3					Q DPE
Total HxCDFs	128					
Total HpCDFs	569					DPE
ITEF TEQ (ND=0)	18.3		18.3			
ITEF TEQ (ND=½)	18.4		18.4			

Client Information

Project Name:	SWP-Wilmington	**Sample Information**		
Sample ID:	SD-31 SWP Log#17344	Matrix:	Solid	
		Weight / Volume:	12.95	Grams
Laboratory Information		Solids / Lipids:	75.7	%
		Original pH:	NA	
Project ID:	G440-2	Batch ID:	WG5198	
Sample ID:	12813			
		Filename:	b17jan01a_2-5	
Collection Date/Time:	10-Jan-01 15:35	Retchk:	b17jan01a-15	
Receipt Date:	12-Jan-01	Begin ConCal:	b17jan01a-15	
Extraction Date:	15-Jan-01			
Analysis Date:	18-Jan-01	Initial Cal:	m1613-b061600a	

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SOUTHERN WOOD PIEDMONT

Method 1613

SD-31 SWP Log#17344

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	2.01	100.5	31:19	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.97	98.3	34:33	1.58	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.85	92.6	37:48	1.27	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.19	109.3	37:55	1.26	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	2.23	111.5	42:17	1.06	
$^{13}C_{12}$-OCDD	4	6.25	156.1	48:06	0.91	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.12	106.0	30:40	0.78	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.04	102.0	33:35	1.57	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.14	107.2	34:19	1.55	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.74	87.1	36:53	0.52	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.86	93.0	37:01	0.53	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.86	92.9	37:38	0.53	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.23	111.5	38:37	0.53	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.37	118.3	40:35	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.77	138.3	43:09	0.46	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.79	98.5	31:20		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:51	0.81	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			37:38	0.53	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-31 SWP Log#17344

Laboratory Information

Project ID: G440-2
Sample ID: 12813

Collection Date/Time: 10-Jan-01 15:35
Receipt Date: 12-Jan-01
Extraction Date: 15-Jan-01
Analysis Date: 18-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 12.95 Grams
Solids / Lipids: 75.7 %
Original pH : NA
Batch ID: WG5198

Filename: b17jan01a_2-5
Retchk: b17jan01a-15
Begin ConCal: b17jan01a-15

Initial Cal: m1613-b061600a

Analyzed by: HMP
Date: 26 Jan 01

Reviewed by: [illegible]
Date: 1/26/01

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Method 1613

SD-30 SWP Log#17345

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	EMPC	0.0472	0.221	31:20	0.58	
1,2,3,7,8-PeCDD	0.660			34:34	1.65	A
1,2,3,4,7,8-HxCDD	2.10			37:50	1.22	A
1,2,3,6,7,8-HxCDD	24.7			37:57	1.23	
1,2,3,7,8,9-HxCDD	6.88			38:15	1.26	
1,2,3,4,6,7,8-HpCDD	1190			42:18	1.04	
OCDD	14200			48:07	0.88	E
2,3,7,8--TCDF	0.436			30:42	0.7	A
1,2,3,7,8-PeCDF	0.780			33:36	1.48	A
2,3,4,7,8-PeCDF	2.78			34:21	1.63	
1,2,3,4,7,8-HxCDF	8.80			36:54	1.31	
1,2,3,6,7,8-HxCDF	3.79			37:02	1.4	
2,3,4,6,7,8-HxCDF	5.23			37:38	1.24	
1,2,3,7,8,9-HxCDF	2.66			38:41	1.27	
1,2,3,4,6,7,8-HpCDF	709			40:36	1.06	
1,2,3,4,7,8,9-HpCDF	9.13			43:10	1.07	
OCDF	947			48:29	0.89	
Total TCDDs	27.7		28.8			
Total PeCDDs	33.7		34.0			Q
Total HxCDDs	356					
Total HpCDDs	6670					
Total TCDFs	6.73		7.48			
Total PeCDFs	27.8		28.3			Q DPE
Total HxCDFs	354					
Total HpCDFs	1560		1570			
ITEF TEQ (ND=0)	41.4		41.7			
ITEF TEQ (ND=½)	41.5		41.7			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-30 SWP Log#17345	Matrix:	Solid
		Weight / Volume:	18.20 Grams
Laboratory Information		Solids / Lipids:	54.2 %
		Original pH :	NA
Project ID:	G440-2	Batch ID:	WG5198
Sample ID:	12814		
		Filename:	b17jan01a_2-6
Collection Date/Time:	10-Jan-01 16:50	Retchk:	b17jan01a-15
Receipt Date:	12-Jan-01	Begin ConCal:	b17jan01a-15
Extraction Date:	15-Jan-01		
Analysis Date:	18-Jan-01	Initial Cal:	m1613-b061600a

Sample Information

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SOUTHERN WOOD PIEDMONT

Method 1613

SD-30 SWP Log#17345

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.67	83.7	31:20	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.59	79.7	34:33	1.57	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.56	78.0	37:48	1.22	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	1.83	91.6	37:55	1.3	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.78	89.2	42:17	1.05	
$^{13}C_{12}$-OCDD	4	4.69	117.2	48:06	0.92	
$^{13}C_{12}$-2,3,7,8-TCDF	2	1.78	88.8	30:40	0.78	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.70	85.0	33:35	1.58	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	1.74	87.0	34:19	1.55	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.47	73.4	36:53	0.53	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.58	79.2	37:01	0.53	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.55	77.7	37:38	0.53	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	1.88	94.2	38:38	0.53	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.93	96.5	40:35	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.19	109.6	43:09	0.46	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.67	83.3	31:20		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:51	0.8	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			37:38	0.53	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-30 SWP Log#17345

Laboratory Information

Project ID: G440-2
Sample ID: 12814

Collection Date/Time: 10-Jan-01 16:50
Receipt Date: 12-Jan-01
Extraction Date: 15-Jan-01
Analysis Date: 18-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 18.20 Grams
Solids / Lipids: 54.2 %
Original pH : NA
Batch ID: WG5198

Filename: b17jan01a_2-6
Retchk: b17jan01a-15
Begin ConCal: b17jan01a-15

Initial Cal: m1613-b061600a

Analyzed by: HMP
Date: 26 Jan 01

Reviewed by: [illegible]
Date: 1/26/01

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SOUTHERN WOOD PIEDMONT

Method 1613

Equip 11101DF SWP Log#17346

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (ng/L)	EDL (ng/L)	EMPC (ng/L)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.0029				
1,2,3,7,8-PeCDD	ND	0.0023				
1,2,3,4,7,8-HxCDD	ND	0.0029				
1,2,3,6,7,8-HxCDD	ND	0.0031				
1,2,3,7,8,9-HxCDD	ND	0.0028				
1,2,3,4,6,7,8-HpCDD	0.0076			39:46	0.93	A
OCDD	0.0226			43:52	0.89	A
2,3,7,8--TCDF	ND	0.0033				
1,2,3,7,8-PeCDF	ND	0.0013				
2,3,4,7,8-PeCDF	ND	0.0012				
1,2,3,4,7,8-HxCDF	ND	0.0018				
1,2,3,6,7,8-HxCDF	ND	0.0018				
2,3,4,6,7,8-HxCDF	ND	0.0020				
1,2,3,7,8,9-HxCDF	ND	0.0028				
1,2,3,4,6,7,8-HpCDF	0.0045			38:32	1.01	A
1,2,3,4,7,8,9-HpCDF	EMPC	0.0035	0.0047	40:24	1.12	
OCDF	0.0183			44:09	0.85	A
Total TCDDs	ND	0.0029				
Total PeCDDs	ND	0.0023				
Total HxCDDs	ND	0.0029				
Total HpCDDs	0.0076		0.0113			
Total TCDFs	ND	0.0033				
Total PeCDFs	ND	0.0013				
Total HxCDFs	ND	0.0021				
Total HpCDFs	0.0045		0.0091			
TEQ (ND=0)	0.0002		0.0002			ITEF
TEQ (ND=½)	0.0036		0.0036			ITEF

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	Equip 11101DF SWP Log#17346		

Laboratory Information

Project ID:	G440-2		
Sample ID:	12815		
Collection Date/Time:	11-Jan-01	09:10	
Receipt Date:	12-Jan-01		
Extraction Date:	16-Jan-01		
Analysis Date:	17-Jan-01		

Sample Information

Matrix:	Aqueous	
Weight / Volume:	540	mL
Solids / Lipids:	NA	
Original pH :	5	
Batch ID:	WG5201	
Filename:	a17jan01a-9	
Retchk:	a17jan01a-1	
Begin ConCal:	a17jan01a-1	
Initial Cal:	m1613-052699m	

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SOUTHERN WOOD PIEDMONT

Method 1613

Equip 11101DF SWP Log#17346

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	1	0.37	36.5	31:01	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	1	0.41	40.6	33:55	1.53	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	1	0.47	47.4	36:27	1.16	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1	0.52	51.9	36:32	1.14	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	1	0.38	37.9	39:45	1.05	
$^{13}C_{12}$-OCDD	2	0.59	29.6	43:51	0.82	
$^{13}C_{12}$-2,3,7,8-TCDF	1	0.43	43.2	30:11	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1	0.45	45.2	33:08	1.55	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1	0.51	51.2	33:44	1.61	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1	0.45	44.5	35:45	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1	0.47	46.8	35:51	0.5	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1	0.48	47.9	36:19	0.49	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1	0.42	41.6	37:05	0.49	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1	0.47	47.0	38:32	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1	0.40	39.5	40:24	0.46	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.4	0.25	62.8	31:02		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:26	0.81	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:19	0.49	

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	Equip 11101DF SWP Log#17346		

Sample Information

Matrix:	Aqueous
Weight / Volume:	540 mL
Solids / Lipids:	NA
Original pH :	5
Batch ID:	WG5201
Filename:	a17jan01a-9
Retchk:	a17jan01a-1
Begin ConCal:	a17jan01a-1
Initial Cal:	m1613-052699m

Laboratory Information

Project ID:	G440-2	
Sample ID:	12815	
Collection Date/Time:	11-Jan-01	09:10
Receipt Date:	12-Jan-01	
Extraction Date:	16-Jan-01	
Analysis Date:	17-Jan-01	

Analyzed by: HMP
Date: 23Jan01

Reviewed by: [illegible]
Date: 1/23/01

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Method 1613

SS-24 SWP Log#17347

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	EMPC	0.0344	0.0945	31:19	0.30	
1,2,3,7,8-PeCDD	ND	0.0718				
1,2,3,4,7,8-HxCDD	0.101			37:49	1.13	A
1,2,3,6,7,8-HxCDD	0.265			37:56	1.21	A
1,2,3,7,8,9-HxCDD	0.227			38:14	1.25	A
1,2,3,4,6,7,8-HpCDD	6.76			42:17	1.04	
OCDD	95.5			48:06	0.90	
2,3,7,8--TCDF	EMPC	0.0312	0.185	30:41	0.93	
1,2,3,7,8-PeCDF	ND	0.0529				
2,3,4,7,8-PeCDF	0.129			34:21	1.66	A
1,2,3,4,7,8-HxCDF	0.0824			36:54	1.28	A
1,2,3,6,7,8-HxCDF	0.0804			37:01	1.36	A
2,3,4,6,7,8-HxCDF	0.121			37:38	1.12	A
1,2,3,7,8,9-HxCDF	ND	0.0796				
1,2,3,4,6,7,8-HpCDF	1.50			40:36	1.14	A
1,2,3,4,7,8,9-HpCDF	EMPC	0.114	0.0623	43:10	2.43	
OCDF	2.37			48:28	0.91	A
Total TCDDs	0.297		0.603			
Total PeCDDs	0.661		0.866			
Total HxCDDs	3.12		4.72			
Total HpCDDs	21.3					
Total TCDFs	0.362		0.836			
Total PeCDFs	1.17					DPE
Total HxCDFs	1.97					
Total HpCDFs	3.68					
ITEF TEQ (ND=0)	0.333		0.446			
ITEF TEQ (ND=½)	0.375		0.470			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SS-24 SWP Log#17347		

Laboratory Information

Project ID:	G440-2		
Sample ID:	12816		
Collection Date/Time:	11-Jan-01	12:30	
Receipt Date:	12-Jan-01		
Extraction Date:	15-Jan-01		
Analysis Date:	18-Jan-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	13.37	Grams
Solids / Lipids:	74.4	%
Original pH :	NA	
Batch ID:	WG5198	
Filename:	b17jan01a_2-8	
Retchk:	b17jan01a-15	
Begin ConCal:	b17jan01a-15	
Initial Cal:	m1613-b061600a	

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SOUTHERN WOOD PIEDMONT

Method 1613

SS-24 SWP Log#17347

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.87	93.6	31:19	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.77	88.5	34:33	1.59	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.72	86.0	37:49	1.28	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.09	104.7	37:55	1.26	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.94	97.1	42:17	1.06	
$^{13}C_{12}$-OCDD	4	4.18	104.4	48:04	0.89	
$^{13}C_{12}$-2,3,7,8-TCDF	2	1.99	99.6	30:40	0.76	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.88	93.9	33:35	1.55	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	1.98	98.9	34:19	1.56	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.64	82.0	36:53	0.53	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.78	88.8	37:01	0.53	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.77	88.3	37:38	0.53	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.08	103.8	38:37	0.53	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.20	109.9	40:35	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.49	124.5	43:09	0.46	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.72	90.5	31:20		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:50	0.8	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			37:38	0.53	

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-24 SWP Log#17347

Laboratory Information

Project ID: G440-2
Sample ID: 12816

Collection Date/Time: 11-Jan-01 12:30
Receipt Date: 12-Jan-01
Extraction Date: 15-Jan-01
Analysis Date: 18-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 13.37 Grams
Solids / Lipids: 74.4 %
Original pH : NA
Batch ID: WG5198

Filename: b17jan01a_2-8
Retchk: b17jan01a-15
Begin ConCal: b17jan01a-15

Initial Cal: m1613-b061600a

Analyzed by: HMP
Date: 26Jan01

Reviewed by: [illegible]
Date: 1/24/01

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Method 1613

SD-10 SWP Log#17348

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	EMPC	0.0597	0.566	31:20	0.60	
1,2,3,7,8-PeCDD	2.02			34:34	1.49	A
1,2,3,4,7,8-HxCDD	4.37			37:49	1.10	
1,2,3,6,7,8-HxCDD	24.1			37:56	1.22	
1,2,3,7,8,9-HxCDD	11.3			38:15	1.20	
1,2,3,4,6,7,8-HpCDD	1060			42:18	1.04	
OCDD	12500			48:07	0.89	E
2,3,7,8--TCDF	1.46			30:40	0.74	
1,2,3,7,8-PeCDF	1.01			33:35	1.39	A
2,3,4,7,8-PeCDF	3.90			34:21	1.56	A
1,2,3,4,7,8-HxCDF	7.84			36:54	1.30	
1,2,3,6,7,8-HxCDF	4.55			37:01	1.24	
2,3,4,6,7,8-HxCDF	7.86			37:39	1.18	
1,2,3,7,8,9-HxCDF	2.21			38:41	1.26	A
1,2,3,4,6,7,8-HpCDF	585			40:36	1.05	
1,2,3,4,7,8,9-HpCDF	7.78			43:11	1.05	
OCDF	721			48:29	0.9	
Total TCDDs	14.8		15.8			
Total PeCDDs	32.7		33.8			
Total HxCDDs	362					
Total HpCDDs	5420					
Total TCDFs	18.4		22.0			DPE
Total PeCDFs	48.4					
Total HxCDFs	310		312			
Total HpCDFs	1210					
ITEF TEQ (ND=0)	39.1		39.7			
ITEF TEQ (ND=½)	39.2		39.7			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-10 SWP Log#17348	Matrix:	Solid
		Weight / Volume:	19.80 Grams
Laboratory Information		Solids / Lipids:	29.3 %
		Original pH :	NA
Project ID:	G440-2	Batch ID:	WG5198
Sample ID:	12817		
		Filename:	b17jan01a_2-9
Collection Date/Time:	11-Jan-01 13:10	Retchk:	b17jan01a-15
Receipt Date:	12-Jan-01	Begin ConCal:	b17jan01a-15
Extraction Date:	15-Jan-01		
Analysis Date:	18-Jan-01	Initial Cal:	m1613-b061600a

Sample Information

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SOUTHERN WOOD PIEDMONT

Method 1613

SD-10 SWP Log#17348

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.92	96.1	31:19	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.84	92.0	34:33	1.58	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.80	90.2	37:48	1.28	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.20	110.2	37:55	1.26	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	2.08	103.8	42:17	1.06	
$^{13}C_{12}$-OCDD	4	5.33	133.2	48:05	0.91	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.06	103.0	30:39	0.78	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.96	98.2	33:35	1.55	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.07	103.4	34:19	1.54	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.72	86.2	36:53	0.52	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.87	93.3	37:01	0.53	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.83	91.5	37:38	0.53	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.21	110.4	38:38	0.53	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.32	116.2	40:35	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.58	128.8	43:09	0.46	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.75	93.1	31:20		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:51	0.81	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			37:38	0.53	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-10 SWP Log#17348

Laboratory Information

Project ID: G440-2
Sample ID: 12817

Collection Date/Time: 11-Jan-01 13:10
Receipt Date: 12-Jan-01
Extraction Date: 15-Jan-01
Analysis Date: 18-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 19.80 Grams
Solids / Lipids: 29.3 %
Original pH : NA
Batch ID: WG5198

Filename: b17jan01a_2-9
Retchk: b17jan01a-15
Begin ConCal: b17jan01a-15

Initial Cal: m1613-b061600a

Analyzed by: HMP
Date: 26 Jan 01

Reviewed by: [illegible]
Date: 1/26/01

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SOUTHERN WOOD SERVICE

Method 1613

SS-22 SWP Log#17349

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.0517				
1,2,3,7,8-PeCDD	0.197			34:35	1.49	A
1,2,3,4,7,8-HxCDD	ND	0.199				
1,2,3,6,7,8-HxCDD	2.46			37:56	1.37	A
1,2,3,7,8,9-HxCDD	1.12			38:14	1.11	A
1,2,3,4,6,7,8-HpCDD	53.2			42:17	1.05	
OCDD	613			48:05	0.89	
2,3,7,8--TCDF	0.251			30:40	0.84	A
1,2,3,7,8-PeCDF	0.153			33:36	1.49	A
2,3,4,7,8-PeCDF	0.388			34:20	1.54	A
1,2,3,4,7,8-HxCDF	1.67			36:54	1.30	A
1,2,3,6,7,8-HxCDF	0.565			37:02	1.09	A
2,3,4,6,7,8-HxCDF	EMPC	0.243	0.881	37:39	1.49	
1,2,3,7,8,9-HxCDF	0.569			38:41	1.21	A
1,2,3,4,6,7,8-HpCDF	161			40:36	1.06	
1,2,3,4,7,8,9-HpCDF	1.39			43:10	1.04	A
OCDF	135			48:27	0.91	
Total TCDDs	0.930		1.19			
Total PeCDDs	2.56		3.11			
Total HxCDDs	29.2		33.9			
Total HpCDDs	256					
Total TCDFs	0.431		1.17			
Total PeCDFs	2.27		3.12			DPE
Total HxCDFs	64.5		65.4			DPE
Total HpCDFs	294					
ITEF TEQ (ND=0)	3.87		3.96			
ITEF TEQ (ND=½)	3.92		3.99			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SS-22 SWP Log#17349		

Laboratory Information

Project ID:	G440-2		
Sample ID:	12818		
Collection Date/Time:	11-Jan-01	13:35	
Receipt Date:	12-Jan-01		
Extraction Date:	15-Jan-01		
Analysis Date:	18-Jan-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	15.94	Grams
Solids / Lipids:	62.4	%
Original pH :	NA	
Batch ID:	WG5198	
Filename:	b17jan01a_2-7	
Retchk:	b17jan01a-15	
Begin ConCal:	b17jan01a-15	
Initial Cal:	m1613-b061600a	

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SOUTHERN WOOD PIEDMONT

Method 1613

SS-22 SWP Log#17349

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.38	69.1	31:19	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.31	65.6	34:33	1.6	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.26	62.8	37:49	1.27	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	1.50	75.2	37:55	1.25	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.38	69.1	42:16	1.04	
$^{13}C_{12}$-OCDD	4	2.97	74.3	48:04	0.9	
$^{13}C_{12}$-2,3,7,8-TCDF	2	1.49	74.3	30:40	0.77	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.37	68.7	33:35	1.54	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	1.48	73.8	34:19	1.57	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.19	59.6	36:53	0.52	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.26	63.2	37:01	0.53	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.26	62.8	37:38	0.53	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	1.51	75.5	38:37	0.53	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.58	78.9	40:35	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	1.77	88.4	43:09	0.46	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.52	65.4	31:20		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:50	0.81	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			37:38	0.53	

Client Information

Project Name:	SWP-Wilmington	**Sample Information**		
Sample ID:	SS-22 SWP Log#17349	Matrix:	Solid	
		Weight / Volume:	15.94	Grams
Laboratory Information		Solids / Lipids:	62.4	%
		Original pH :	NA	
Project ID:	G440-2	Batch ID:	WG5198	
Sample ID:	12818			
		Filename:	b17jan01a_2-7	
Collection Date/Time:	11-Jan-01 13:35	Retchk:	b17jan01a-15	
Receipt Date:	12-Jan-01	Begin ConCal:	b17jan01a-15	
Extraction Date:	15-Jan-01			
Analysis Date:	18-Jan-01	Initial Cal:	m1613-b061600a	

Analyzed by: HMP
Date: 26Jan01

Reviewed by: [illegible]
Date: [illegible]

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Method 1613

SS-20 SWP Log#17350

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	0.772			31:03	0.77	
1,2,3,7,8-PeCDD	2.16			33:56	1.57	A
1,2,3,4,7,8-HxCDD	4.38			36:28	1.13	
1,2,3,6,7,8-HxCDD	45.8			36:33	1.15	
1,2,3,7,8,9-HxCDD	15.2			36:47	1.19	
2,3,7,8--TCDF	1.66			30:14	0.77	
1,2,3,7,8-PeCDF	2.10			33:09	1.54	A
2,3,4,7,8-PeCDF	6.27			33:46	1.51	
1,2,3,4,7,8-HxCDF	18.2			35:46	1.13	
1,2,3,6,7,8-HxCDF	10.6			35:52	1.14	
2,3,4,6,7,8-HxCDF	14.4			36:21	1.11	
1,2,3,7,8,9-HxCDF	5.91			37:07	1.23	
1,2,3,4,6,7,8-HpCDF	1410			38:32	1.04	
1,2,3,4,7,8,9-HpCDF	19.5			40:25	1.03	
OCDF	1260			44:12	0.83	
Total TCDDs	35.9					Q
Total PeCDDs	78.1					Q
Total HxCDDs	801					
Total TCDFs	22.1		23.4			DPE
Total PeCDFs	49.9		50.1			Q DPE
Total HxCDFs	709					DPE
Total HpCDFs	3090					DPE
ITEF TEQ (ND=0)	32.3		32.3			*
ITEF TEQ (ND=½)	32.3		32.3			*

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-20 SWP Log#17350

Laboratory Information

Project ID: G440-2
Sample ID: 12819

Collection Date/Time: 11-Jan-01 14:00
Receipt Date: 12-Jan-01
Extraction Date: 15-Jan-01
Analysis Date: 19-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 20.29 Grams
Solids / Lipids: 46.9 %
Original pH : NA
Batch ID: WG5198

Filename: a18jan01a_2-4
Retchk: a18jan01a-15
Begin ConCal: a18jan01a-15

Initial Cal: m1613-052699m

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SOUTHERN WOOD PIEDMONT

Method 1613

SS-20 SWP Log#17350

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.99	99.6	31:02	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.96	98.2	33:56	1.55	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	2.14	107.1	36:28	1.23	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.29	114.6	36:33	1.18	
$^{13}C_{12}$-OCDD	4	5.80	144.9	43:54	0.94	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.11	105.5	30:13	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.28	114.0	33:08	1.49	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.26	113.1	33:44	1.5	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.98	99.0	35:46	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.11	105.4	35:51	0.49	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	2.02	101.0	36:20	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.44	121.9	37:05	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.23	111.7	38:32	0.47	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.32	115.8	40:24	0.47	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.73	91.5	31:03		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:27	0.78	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:20	0.51	

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-20 SWP Log#17350

Laboratory Information

Project ID: G440-2
Sample ID: 12819

Collection Date/Time: 11-Jan-01 14:00
Receipt Date: 12-Jan-01
Extraction Date: 15-Jan-01
Analysis Date: 19-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 20.29 Grams
Solids / Lipids: 46.9 %
Original pH : NA
Batch ID: WG5198

Filename: a18jan01a_2-4
Retchk: a18jan01a-15
Begin ConCal: a18jan01a-15

Initial Cal: m1613-052699m

Analyzed by: HMD
Date: 23 Jan 01

Reviewed by: [illegible]
Date: 1/23/01

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SOUTHERN WOOD PIEDMONT

Method 1613

SS-20 SWP Log#17350

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
1,2,3,4,6,7,8-HpCDD	2240			39:46	1.05	
OCDD	24600			43:52	0.87	
Total HpCDDs	15700					
ITEF TEQ (ND=0)	47.0		47.0			*
ITEF TEQ (ND=½)	47.0		47.0			*

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SS-20 SWP Log#17350		
Laboratory Information			
Project ID:	G440-2		
Sample ID:	12819	D10	
Collection Date/Time:	11-Jan-01	14:00	
Receipt Date:	12-Jan-01		
Extraction Date:	15-Jan-01		
Analysis Date:	24-Jan-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	20.29	Grams
Solids / Lipids:	46.9	%
Original pH :	NA	
Batch ID:	WG5198	
Filename:	a23jan01a_2-5	
Retchk:	a23jan01a-15	
Begin ConCal:	a23jan01a-15	
Initial Cal:	m1613-052699m	

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Method 1613

SS-20 SWP Log#17350

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.84	91.8	39:45	1.09	
$^{13}C_{12}$-OCDD	4	4.79	119.8	43:51	0.95	
Injection Standards						
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:19	0.52	

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-20 SWP Log#17350

Laboratory Information

Project ID: G440-2
Sample ID: 12819 D10

Collection Date/Time: 11-Jan-01 14:00
Receipt Date: 12-Jan-01
Extraction Date: 15-Jan-01
Analysis Date: 24-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 20.29 Grams
Solids / Lipids: 46.9 %
Original pH : NA
Batch ID: WG5198

Filename: a23jan01a_2-5
Retchk: a23jan01a-15
Begin ConCal: a23jan01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 25Jan01

Reviewed by: MM
Date: 1/25/01

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Method 1613

SD-11 SWP Log#17351

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	1.11			31:04	0.77	
1,2,3,7,8-PeCDD	2.67			33:56	1.51	A
1,2,3,4,7,8-HxCDD	5.43			36:28	1.20	
1,2,3,6,7,8-HxCDD	74.1			36:34	1.16	
1,2,3,7,8,9-HxCDD	18.0			36:48	1.15	
2,3,7,8--TCDF	2.65			30:15	0.79	
1,2,3,7,8-PeCDF	2.45			33:10	1.58	A
2,3,4,7,8-PeCDF	6.85			33:46	1.51	
1,2,3,4,7,8-HxCDF	21.6			35:46	1.14	
1,2,3,6,7,8-HxCDF	18.5			35:52	1.14	
2,3,4,6,7,8-HxCDF	21.3			36:21	1.12	
1,2,3,7,8,9-HxCDF	6.65			37:07	1.14	
1,2,3,4,6,7,8-HpCDF	1900			38:32	1.03	
1,2,3,4,7,8,9-HpCDF	28.3			40:25	1.05	
OCDF	1870			44:13	0.82	
Total TCDDs	32.1					Q
Total PeCDDs	82.3					Q
Total HxCDDs	1690					
Total TCDFs	26.1		28.3			Q DPE
Total PeCDFs	58.0					Q DPE
Total HxCDFs	1030					
Total HpCDFs	4400					
ITEF TEQ (ND=0)	44.0		44.0			*
ITEF TEQ (ND=½)	44.0		44.0			*

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-11 SWP Log#17351

Laboratory Information

Project ID: G440-2
Sample ID: 12820

Collection Date/Time: 11-Jan-01 14:20
Receipt Date: 12-Jan-01
Extraction Date: 18-Jan-01
Analysis Date: 19-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 18.95 Grams
Solids / Lipids: 44.6 %
Original pH : NA
Batch ID: WG5205

Filename: a18jan01a_2-5
Retchk: a18jan01a-15
Begin ConCal: a18jan01a-15

Initial Cal: m1613-052699m

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Method 1613

SD-11 SWP Log#17351

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.93	96.5	31:03	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.86	92.8	33:56	1.54	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	2.13	106.5	36:28	1.18	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.14	107.0	36:33	1.14	
$^{13}C_{12}$-OCDD	4	6.60	165.1	43:56	1	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.03	101.7	30:14	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.10	105.2	33:09	1.51	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.14	106.8	33:45	1.51	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	2.05	102.6	35:46	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.05	102.7	35:52	0.49	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.93	96.4	36:20	0.49	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.38	119.0	37:06	0.49	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.27	113.4	38:32	0.47	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.35	117.4	40:25	0.46	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.72	89.4	31:04		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:28	0.79	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:20	0.49	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-11 SWP Log#17351

Laboratory Information

Project ID: G440-2
Sample ID: 12820

Collection Date/Time: 11-Jan-01 14:20
Receipt Date: 12-Jan-01
Extraction Date: 18-Jan-01
Analysis Date: 19-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 18.95 Grams
Solids / Lipids: 44.6 %
Original pH : NA
Batch ID: WG5205

Filename: a18jan01a_2-5
Retchk: a18jan01a-15
Begin ConCal: a18jan01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 23 Jan 01

Reviewed by: [illegible]
Date: 1/23/01

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SOUTHERN WOOD PIEDMONT

Method 1613

SD-11 SWP Log#17351

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
1,2,3,4,6,7,8-HpCDD	5030			39:46	1.06	
OCDD	54800			43:52	0.87	
Total HpCDDs	47900					
ITEF TEQ (ND=0)	105		105			*
ITEF TEQ (ND=½)	105		105			*

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-11 SWP Log#17351		

Laboratory Information

Project ID:	G440-2		
Sample ID:	12820	D50	
Collection Date/Time:	11-Jan-01	14:20	
Receipt Date:	12-Jan-01		
Extraction Date:	18-Jan-01		
Analysis Date:	24-Jan-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	18.95	Grams
Solids / Lipids:	44.6	%
Original pH :	NA	
Batch ID:	WG5205	
Filename:	a23jan01a_2-6	
Retchk:	a23jan01a-15	
Begin ConCal:	a23jan01a-15	
Initial Cal:	m1613-052699m	

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Method 1613

SD-11 SWP Log#17351

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.82	90.8	39:45	1.08	
$^{13}C_{12}$-OCDD	4	4.77	119.3	43:51	1.04	
Injection Standards						
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:19	0.48	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-11 SWP Log#17351

Laboratory Information

Project ID: G440-2
Sample ID: 12820 D50

Collection Date/Time: 11-Jan-01 14:20
Receipt Date: 12-Jan-01
Extraction Date: 18-Jan-01
Analysis Date: 24-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 18.95 Grams
Solids / Lipids: 44.6 %
Original pH : NA
Batch ID: WG5205

Filename: a23jan01a_2-6
Retchk: a23jan01a-15
Begin ConCal: a23jan01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 25Jan01

Reviewed by: [illegible]
Date: 1/25/01

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SOUTHERN WOOD PIEDMONT

Method 1613

SS-18 SWP Log#17352

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	EMPC	0.0527	0.244	31:02	0.50	
1,2,3,7,8-PeCDD	0.895			33:56	1.4	A
1,2,3,4,7,8-HxCDD	3.02			36:28	1.14	
1,2,3,6,7,8-HxCDD	34.6			36:33	1.15	
1,2,3,7,8,9-HxCDD	6.75			36:47	1.14	
2,3,7,8--TCDF	0.559			30:13	0.74	
1,2,3,7,8-PeCDF	0.732			33:09	1.43	A
2,3,4,7,8-PeCDF	3.47			33:46	1.5	
1,2,3,4,7,8-HxCDF	10.4			35:46	1.16	
1,2,3,6,7,8-HxCDF	4.57			35:51	1.2	
2,3,4,6,7,8-HxCDF	9.30			36:20	1.14	
1,2,3,7,8,9-HxCDF	2.38			37:07	1.22	
1,2,3,4,6,7,8-HpCDF	390			38:33	1.04	
1,2,3,4,7,8,9-HpCDF	13.5			40:25	1.07	
OCDF	904			44:11	0.82	
Total TCDDs	9.52		10.2			
Total PeCDDs	33.0					
Total HxCDDs	477					
Total TCDFs	7.47		8.22			Q
Total PeCDFs	25.7		26.2			Q DPE
Total HxCDFs	299					Q
Total HpCDFs	1350					Q
ITEF TEQ (ND=0)	14.3		14.6			*
ITEF TEQ (ND=½)	14.3		14.6			*

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-18 SWP Log#17352

Laboratory Information

Project ID: G440-2
Sample ID: 12821

Collection Date/Time: 11-Jan-01 14:45
Receipt Date: 12-Jan-01
Extraction Date: 18-Jan-01
Analysis Date: 19-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 15.51 Grams
Solids / Lipids: 72.9 %
Original pH : NA
Batch ID: WG5205

Filename: a18jan01a_2-6
Retchk: a18jan01a-15
Begin ConCal: a18jan01a-15

Initial Cal: m1613-052699m

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SOUTHERN WOOD PIEDMONT

Method 1613

SS-18 SWP Log#17352

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	2.15	107.5	31:02	0.78	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	2.19	109.6	33:56	1.56	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	2.06	103.1	36:27	1.15	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.23	111.6	36:33	1.17	
$^{13}C_{12}$-OCDD	4	5.46	136.4	43:53	0.91	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.36	117.9	30:12	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.47	123.3	33:08	1.5	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.50	124.9	33:44	1.52	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	2.06	102.9	35:45	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.09	104.4	35:51	0.49	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.99	99.7	36:20	0.5	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.42	120.9	37:05	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.19	109.6	38:32	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.32	116.0	40:24	0.46	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.79	98.4	31:02		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:26	0.79	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:20	0.5	

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-18 SWP Log#17352

Laboratory Information

Project ID: G440-2
Sample ID: 12821

Collection Date/Time: 11-Jan-01 14:45
Receipt Date: 12-Jan-01
Extraction Date: 18-Jan-01
Analysis Date: 19-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 15.51 Grams
Solids / Lipids: 72.9 %
Original pH : NA
Batch ID: WG5205

Filename: a18jan01a_2-6
Retchk: a18jan01a-15
Begin ConCal: a18jan01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 23JAN01

Reviewed by: [illegible]
Date: 1/23/01

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Method 1613

SS-18 SWP Log#17352

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
1,2,3,4,6,7,8-HpCDD	1670			39:46	1.06	
OCDD	16600			43:53	0.87	
Total HpCDDs	8960					
ITEF TEQ (ND=0)	33.3		33.3			*
ITEF TEQ (ND=½)	33.3		33.3			*

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SS-18 SWP Log#17352		
Laboratory Information			
Project ID:	G440-2		
Sample ID:	12821	D5	
Collection Date/Time:	11-Jan-01	14:45	
Receipt Date:	12-Jan-01		
Extraction Date:	18-Jan-01		
Analysis Date:	24-Jan-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	15.51	Grams
Solids / Lipids:	72.9	%
Original pH :	NA	
Batch ID:	WG5205	
Filename:	a23jan01a_2-7	
Retchk:	a23jan01a-15	
Begin ConCal:	a23jan01a-15	
Initial Cal:	m1613-052699m	

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Method 1613

SS-18 SWP Log#17352

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.94	96.8	39:45	1.1	
$^{13}C_{12}$-OCDD	4	4.83	120.8	43:52	0.92	
Injection Standards						
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:19	0.51	

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-18 SWP Log#17352

Laboratory Information

Project ID: G440-2
Sample ID: 12821 D5

Collection Date/Time: 11-Jan-01 14:45
Receipt Date: 12-Jan-01
Extraction Date: 18-Jan-01
Analysis Date: 24-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 15.51 Grams
Solids / Lipids: 72.9 %
Original pH : NA
Batch ID: WG5205

Filename: a23jan01a_2-7
Retchk: a23jan01a-15
Begin ConCal: a23jan01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 25Jan01

Reviewed by: MLh
Date: 1/25/01

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Method 1613

SS-17 SWP Log#17353

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.0394				
1,2,3,7,8-PeCDD	EMPC	0.0554	0.119	33:56	1.16	
1,2,3,4,7,8-HxCDD	0.474			36:28	1.35	A
1,2,3,6,7,8-HxCDD	1.77			36:33	1.17	A
1,2,3,7,8,9-HxCDD	0.677			36:47	1.20	A
1,2,3,4,6,7,8-HpCDD	114			39:46	1.04	
OCDD	1260			43:52	0.88	
2,3,7,8--TCDF	0.218			30:13	0.75	A
1,2,3,7,8-PeCDF	0.0959			33:09	1.40	A
2,3,4,7,8-PeCDF	0.251			33:45	1.44	A
1,2,3,4,7,8-HxCDF	0.867			35:46	1.14	A
1,2,3,6,7,8-HxCDF	EMPC	0.111	0.356	35:51	1	
2,3,4,6,7,8-HxCDF	0.518			36:20	1.21	A
1,2,3,7,8,9-HxCDF	0.244			37:07	1.09	A
1,2,3,4,6,7,8-HpCDF	28.5			38:32	1.03	
1,2,3,4,7,8,9-HpCDF	0.797			40:24	1.1	A
OCDF	46.5			44:09	0.85	
Total TCDDs	0.0767		0.202			
Total PeCDDs	1.13		1.25			
Total HxCDDs	36.7					
Total HpCDDs	838					
Total TCDFs	0.596		0.778			
Total PeCDFs	1.75		1.84			
Total HxCDFs	17.2		17.5			
Total HpCDFs	68.7		69.1			DPE
TEQ (ND=0)	3.35		3.44			ITEF
TEQ (ND=½)	3.39		3.46			ITEF

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SS-17 SWP Log#17353		

Laboratory Information

Project ID:	G440-2		
Sample ID:	12822		
Collection Date/Time:	11-Jan-01	15:10	
Receipt Date:	12-Jan-01		
Extraction Date:	18-Jan-01		
Analysis Date:	19-Jan-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	14.79	Grams
Solids / Lipids:	77.6	%
Original pH :	NA	
Batch ID:	WG5205	
Filename:	a18jan01a_2-7	
Retchk:	a18jan01a-15	
Begin ConCal:	a18jan01a-15	
Initial Cal:	m1613-052699m	

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Method 1613

SS-17 SWP Log#17353

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	2.13	106.5	31:01	0.77	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	2.23	111.7	33:55	1.54	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	2.05	102.4	36:27	1.2	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.28	114.2	36:32	1.2	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.76	87.8	39:45	1.04	
$^{13}C_{12}$-OCDD	4	3.86	96.4	43:51	0.88	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.44	122.0	30:12	0.82	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.30	115.2	33:08	1.51	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.51	125.5	33:44	1.52	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	2.02	101.0	35:45	0.50	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.04	101.8	35:51	0.51	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.98	99.0	36:19	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.31	115.4	37:05	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.05	102.5	38:31	0.45	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.16	107.8	40:24	0.46	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.78	97.4	31:02		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:25	0.77	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:19	0.51	

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-17 SWP Log#17353

Laboratory Information

Project ID: G440-2
Sample ID: 12822

Collection Date/Time: 11-Jan-01 15:10
Receipt Date: 12-Jan-01
Extraction Date: 18-Jan-01
Analysis Date: 19-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 14.79 Grams
Solids / Lipids: 77.6 %
Original pH : NA
Batch ID: WG5205

Filename: a18jan01a_2-7
Retchk: a18jan01a-15
Begin ConCal: a18jan01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 23Jan01

Reviewed by: [illegible]
Date: 1/23/01

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SOUTHERN WOOD PIEDMONT

Method 1613

SS-15 SWP Log#17354

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	EMPC	0.0652	0.145	31:02	0.40	
1,2,3,7,8-PeCDD	0.197			33:56	1.41	A
1,2,3,4,7,8-HxCDD	0.380			36:28	1.13	A
1,2,3,6,7,8-HxCDD	1.11			36:33	1.09	A
1,2,3,7,8,9-HxCDD	0.786			36:46	1.11	A
1,2,3,4,6,7,8-HpCDD	43.2			39:46	1.05	
OCDD	579			43:52	0.88	
2,3,7,8--TCDF	0.278			30:13	0.78	A
1,2,3,7,8-PeCDF	0.115			33:08	1.54	A
2,3,4,7,8-PeCDF	0.274			33:45	1.43	A
1,2,3,4,7,8-HxCDF	0.351			35:46	1.23	A
1,2,3,6,7,8-HxCDF	0.326			35:51	1.15	A
2,3,4,6,7,8-HxCDF	0.478			36:20	1.13	A
1,2,3,7,8,9-HxCDF	ND	0.172				
1,2,3,4,6,7,8-HpCDF	11.9			38:32	1.08	
1,2,3,4,7,8,9-HpCDF	0.408			40:25	1.03	A
OCDF	15.8			44:09	0.84	
Total TCDDs	1.91					
Total PeCDDs	2.84		2.99			Q
Total HxCDDs	20.9		21.6			
Total HpCDDs	183					
Total TCDFs	1.52		1.95			
Total PeCDFs	1.94		2.32			Q
Total HxCDFs	8.46					
Total HpCDFs	27.0					
TEQ (ND=0)	1.76		1.91			ITEF
TEQ (ND=½)	1.80		1.92			ITEF

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SS-15 SWP Log#17354		

Laboratory Information

Project ID:	G440-2		
Sample ID:	12823		
Collection Date/Time:	11-Jan-01	15:45	
Receipt Date:	12-Jan-01		
Extraction Date:	18-Jan-01		
Analysis Date:	19-Jan-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	12.38	Grams
Solids / Lipids:	71.4	%
Original pH :	NA	
Batch ID:	WG5205	
Filename:	a18jan01a_2-8	
Retchk:	a18jan01a-15	
Begin ConCal:	a18jan01a-15	
Initial Cal:	m1613-052699m	

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Method 1613

SS-15 SWP Log#17354

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	2.11	105.4	31:01	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	2.22	111.2	33:55	1.59	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	2.03	101.6	36:27	1.15	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.26	113.1	36:32	1.14	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.83	91.5	39:45	1.04	
$^{13}C_{12}$-OCDD	4	3.81	95.3	43:51	0.87	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.38	119.1	30:12	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.31	115.3	33:08	1.51	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.60	130.2	33:44	1.53	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.96	98.2	35:45	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.08	103.8	35:51	0.48	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	2.00	100.1	36:19	0.49	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.35	117.6	37:05	0.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.09	104.4	38:31	0.47	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.22	110.8	40:24	0.46	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.76	95.3	31:02		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:25	0.79	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:19	0.49	

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-15 SWP Log#17354

Laboratory Information

Project ID: G440-2
Sample ID: 12823

Collection Date/Time: 11-Jan-01 15:45
Receipt Date: 12-Jan-01
Extraction Date: 18-Jan-01
Analysis Date: 19-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 12.38 Grams
Solids / Lipids: 71.4 %
Original pH : NA
Batch ID: WG5205

Filename: a18jan01a_2-8
Retchk: a18jan01a-15
Begin ConCal: a18jan01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 23Jan01

Reviewed by: [illegible]
Date: 1/23/01

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Method 1613 - QC BLANK Results

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Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.0750				
1,2,3,7,8-PeCDD	ND	0.0632				
1,2,3,4,7,8-HxCDD	ND	0.0834				
1,2,3,6,7,8-HxCDD	ND	0.0842				
1,2,3,7,8,9-HxCDD	ND	0.0772				
1,2,3,4,6,7,8-HpCDD	0.302			39:46	0.94	A
OCDD	1.16			43:52	0.90	A
2,3,7,8--TCDF	EMPC	0.0742	0.136	30:12	0.99	
1,2,3,7,8-PeCDF	ND	0.0566				
2,3,4,7,8-PeCDF	0.0680			33:45	1.65	A
1,2,3,4,7,8-HxCDF	ND	0.0552				
1,2,3,6,7,8-HxCDF	0.0540			35:52	1.17	A
2,3,4,6,7,8-HxCDF	ND	0.0586				
1,2,3,7,8,9-HxCDF	ND	0.0676				
1,2,3,4,6,7,8-HpCDF	0.0940			38:32	1.01	A
1,2,3,4,7,8,9-HpCDF	ND	0.0816				
OCDF	ND	0.194				
Total TCDDs	ND	0.360				
Total PeCDDs	ND	0.464				Q
Total HxCDDs	ND	0.526				
Total HpCDDs	0.528					
Total TCDFs	0.106		0.242			
Total PeCDFs	0.0680					Q
Total HxCDFs	0.116					
Total HpCDFs	0.0940					
TEQ (ND=0)	0.0445		0.0581			ITEF
TEQ (ND=½)	0.125		0.135			ITEF

Laboratory Information

Sample ID: WG5198-1

Extraction Date: 15-Jan-01

Analysis Date: 18-Jan-01

Sample Information

Matrix:	Solid	
Weight / Volume:	10.00	Grams
Solids / Lipids:	100	%
Original pH :	NA	
Batch ID:	WG5198	
Filename:	a18jan01a-3	
Retchk:	a18jan01a-1	
Begin ConCal:	a18jan01a-1	
Initial Cal:	m1613-052699m	

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Method 1613 - QC BLANK Results

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Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.62	81.1	31:00	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.60	79.9	33:56	1.58	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.60	79.8	36:27	1.24	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	1.74	87.0	36:33	1.23	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.31	65.3	39:45	1.04	
$^{13}C_{12}$-OCDD	4	2.51	62.8	43:51	0.87	
$^{13}C_{12}$-2,3,7,8-TCDF	2	1.89	94.3	30:12	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.78	89.2	33:08	1.55	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.02	100.9	33:44	1.5	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.48	74.0	35:45	0.50	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.62	81.2	35:51	0.52	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.52	76.2	36:20	0.52	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	1.75	87.7	37:05	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.53	76.7	38:32	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	1.64	82.2	40:24	0.46	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.59	73.4	31:02		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:25	0.82	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:20	0.52	

Laboratory Information

Sample ID: WG5198-1

Extraction Date: 15-Jan-01
Analysis Date: 18-Jan-01

Analyzed by: [illegible]
Date: 22JAN01

Sample Information

Matrix: Solid
Weight / Volume: 10.00 Grams
Solids / Lipids: 100 %
Original pH : NA
Batch ID: WG5198

Filename: a18jan01a-3
Retchk: a18jan01a-1
Begin ConCal: a18jan01a-1

Initial Cal: m1613-052699m

Reviewed by: [illegible]
Date: 1/22/01

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Method 1613 - QC BLANK Results

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Analytical Data Summary Sheet

Analyte	Amount (ng/L)	EDL (ng/L)	EMPC (ng/L)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.0024				
1,2,3,7,8-PeCDD	EMPC	0.0016	0.0021	33:56	1.15	
1,2,3,4,7,8-HxCDD	EMPC	0.0019	0.0022	36:28	0.93	
1,2,3,6,7,8-HxCDD	EMPC	0.0020	0.0024	36:34	0.93	
1,2,3,7,8,9-HxCDD	0.0026			36:47	1.23	A
1,2,3,4,6,7,8-HpCDD	0.0048			39:46	1.06	A
OCDD	0.0133			43:51	0.93	A
2,3,7,8--TCDF	ND	0.0019				
1,2,3,7,8-PeCDF	0.0014			33:10	1.35	A
2,3,4,7,8-PeCDF	0.0017			33:44	1.51	A
1,2,3,4,7,8-HxCDF	0.0024			35:46	1.27	A
1,2,3,6,7,8-HxCDF	0.0024			35:52	1.13	A
2,3,4,6,7,8-HxCDF	0.0039			36:21	1.31	A
1,2,3,7,8,9-HxCDF	0.0017			37:06	1.2	A
1,2,3,4,6,7,8-HpCDF	EMPC	0.0021	0.0037	38:32	1.32	
1,2,3,4,7,8,9-HpCDF	0.0033			40:25	1.16	A
OCDF	EMPC	0.0040	0.0075	44:10	0.72	
Total TCDDs	ND	0.0024				
Total PeCDDs	ND	0.0039	0.0021			
Total HxCDDs	0.0026		0.0072			
Total HpCDDs	0.0048					
Total TCDFs	ND	0.0019				
Total PeCDFs	0.0031					
Total HxCDFs	0.0105					
Total HpCDFs	0.0033		0.0070			
TEQ (ND=0)	0.0023		0.0039			ITEF
TEQ (ND=½)	0.0042		0.0052			ITEF

Laboratory Information

Sample ID: WG5201-1

Extraction Date: 16-Jan-01

Analysis Date: 17-Jan-01

Sample Information

Matrix: Aqueous

Weight / Volume: 500 mL

Solids / Lipids: NA

Original pH : 5

Batch ID: WG5201

Filename: a17jan01a-7

Retchk: a17jan01a-1

Begin ConCal: a17jan01a-1

Initial Cal: m1613-052699m

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Method 1613 - QC BLANK Results

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Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	1	0.59	59.3	31:01	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	1	0.65	64.7	33:55	1.59	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	1	0.78	77.9	36:27	1.2	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1	0.83	83.1	36:32	1.19	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	1	0.68	68.1	39:45	1.03	
$^{13}C_{12}$-OCDD	2	1.35	67.4	43:51	0.85	
$^{13}C_{12}$-2,3,7,8-TCDF	1	0.66	66.3	30:12	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1	0.70	69.7	33:08	1.57	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1	0.76	75.9	33:44	1.62	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1	0.69	69.1	35:45	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1	0.73	72.6	35:51	0.49	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1	0.75	75.4	36:19	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1	0.85	85.3	37:05	0.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1	0.78	77.7	38:31	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1	0.82	81.5	40:24	0.47	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.4	0.25	63.5	31:02		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:25	0.81	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:19	0.51	

Laboratory Information

Sample ID: WG5201-1

Extraction Date: 16-Jan-01
Analysis Date: 17-Jan-01

Analyzed by: HMP
Date: 18Jan01

Sample Information

Matrix: Aqueous
Weight / Volume: 500 mL
Solids / Lipids: NA
Original pH : 5
Batch ID: WG5201

Filename: a17jan01a-7
Retchk: a17jan01a-1
Begin ConCal: a17jan01a-1

Initial Cal: m1613-052699m

Reviewed by: [illegible]
Date: 1/18/01

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Method 1613 - QC BLANK Results

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Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.0470				
1,2,3,7,8-PeCDD	ND	0.0570				
1,2,3,4,7,8-HxCDD	ND	0.0894				
1,2,3,6,7,8-HxCDD	ND	0.0922				
1,2,3,7,8,9-HxCDD	ND	0.0836				
1,2,3,4,6,7,8-HpCDD	0.500			39:46	0.98	A
OCDD	2.72			43:52	0.83	A
2,3,7,8--TCDF	0.160			30:13	0.76	A
1,2,3,7,8-PeCDF	ND	0.0660				
2,3,4,7,8-PeCDF	EMPC	0.0344	0.0660	33:45	1.47	
1,2,3,4,7,8-HxCDF	0.0640			35:46	1.35	A
1,2,3,6,7,8-HxCDF	0.0740			35:52	1.1	A
2,3,4,6,7,8-HxCDF	ND	0.0496				
1,2,3,7,8,9-HxCDF	EMPC	0.0558	0.0660	37:06	1.64	
1,2,3,4,6,7,8-HpCDF	0.120			38:32	0.91	A
1,2,3,4,7,8,9-HpCDF	ND	0.0802				
OCDF	EMPC	0.130	0.174	44:08	0.93	
Total TCDDs	ND	0.346				
Total PeCDDs	ND	0.480				
Total HxCDDs	ND	0.620				
Total HpCDDs	1.33					
Total TCDFs	0.310					
Total PeCDFs	ND	0.0660				
Total HxCDFs	0.138					
Total HpCDFs	0.120		0.226			
TEQ (ND=0)	0.0387		0.0785			ITEF
TEQ (ND=½)	0.106		0.134			ITEF

Laboratory Information

Sample ID: WG5205-1

Extraction Date: 18-Jan-01

Analysis Date: 19-Jan-01

Sample Information

Matrix:	Solid	
Weight / Volume:	10.00	Grams
Solids / Lipids:	100	%
Original pH :	NA	
Batch ID:	WG5205	
Filename:	a18jan01a_2-2	
Retchk:	a18jan01a-1	
Begin ConCal:	a18jan01a-1	
Initial Cal:	m1613-052699m	

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Method 1613 - QC BLANK Results

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Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.82	90.8	31:01	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.70	85.2	33:55	1.55	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.82	91.2	36:27	1.21	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	1.93	96.6	36:33	1.22	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.46	73.0	39:45	1.03	
$^{13}C_{12}$-OCDD	4	2.93	73.1	43:51	0.85	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.07	103.7	30:12	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.95	97.5	33:08	1.51	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.04	102.2	33:44	1.51	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.68	84.0	35:45	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.80	90.1	35:51	0.5	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.72	86.0	36:19	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	1.98	98.8	37:05	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.75	87.3	38:32	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	1.79	89.5	40:24	0.46	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.67	83.9	31:02		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:25	0.79	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:19	0.51	

Sample Information

Matrix:	Solid	
Weight / Volume:	10.00	Grams
Solids / Lipids:	100	%
Original pH :	NA	
Batch ID:	WG5205	
Filename:	a18jan01a_2-2	
Retchk:	a18jan01a-1	
Begin ConCal:	a18jan01a-1	
Initial Cal:	m1613-052699m	

Laboratory Information

Sample ID: WG5205-1

Extraction Date: 18-Jan-01

Analysis Date: 19-Jan-01

Analyzed by: [illegible]

Date: 22JAN01

Reviewed by: [illegible]

Date: 1/22/01

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Method 1613 - QC BLANK Results

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Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.0422				
1,2,3,7,8-PeCDD	ND	0.0504				
1,2,3,4,7,8-HxCDD	ND	0.0686				
1,2,3,6,7,8-HxCDD	ND	0.0718				
1,2,3,7,8,9-HxCDD	ND	0.0646				
1,2,3,4,6,7,8-HpCDD	0.284			39:46	1.03	A
OCDD	0.944			43:53	0.90	A
2,3,7,8--TCDF	0.0840			30:15	0.88	A
1,2,3,7,8-PeCDF	ND	0.0310				
2,3,4,7,8-PeCDF	EMPC	0.0310	0.0680	33:45	1.31	
1,2,3,4,7,8-HxCDF	ND	0.0404				
1,2,3,6,7,8-HxCDF	ND	0.0394				
2,3,4,6,7,8-HxCDF	ND	0.0464				
1,2,3,7,8,9-HxCDF	ND	0.0488				
1,2,3,4,6,7,8-HpCDF	0.0760			38:33	0.99	A
1,2,3,4,7,8,9-HpCDF	ND	0.0660				
OCDF	ND	0.108				
Total TCDDs	ND	0.348				
Total PeCDDs	ND	0.414				Q
Total HxCDDs	ND	0.542				
Total HpCDDs	0.284		0.578			
Total TCDFs	0.0840					
Total PeCDFs	ND	0.0500	0.0680			
Total HxCDFs	ND	0.0880				
Total HpCDFs	0.0760					
ITEF TEQ (ND=0)	0.0129		0.0469			
ITEF TEQ (ND=½)	0.0746		0.101			

Laboratory Information

Sample ID: WG5212-1

Extraction Date: 23-Jan-01

Analysis Date: 24-Jan-01

Sample Information

Matrix:	Soil	
Weight / Volume:	10.00	Grams
Solids / Lipids:	100	%
Original pH :	NA	
Batch ID:	WG5212	
Filename:	a24jan01b-7	
Retchk:	a24jan01b-1	
Begin ConCal:	a24jan01b-1	
Initial Cal:	m1613-052699m	

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Method 1613 - QC BLANK Results

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Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	2.05	102.3	31:02	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	2.05	102.6	33:56	1.54	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	2.03	101.6	36:28	1.18	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.20	109.8	36:33	1.18	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.84	91.9	39:46	1.05	
$^{13}C_{12}$-OCDD	4	3.90	97.6	43:52	0.84	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.24	112.1	30:13	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.14	107.2	33:09	1.57	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.27	113.4	33:45	1.53	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.94	97.1	35:46	0.51	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.03	101.5	35:52	0.51	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.91	95.4	36:20	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.20	110.2	37:06	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.93	96.3	38:32	0.48	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.15	107.4	40:25	0.48	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.74	93.0	31:03		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:27	0.79	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:20	0.51	

Laboratory Information

Sample ID: WG5212-1

Extraction Date: 23-Jan-01
Analysis Date: 24-Jan-01

Analyzed by: HMP
Date: 26Jan01

Sample Information

Matrix: Soil
Weight / Volume: 10.00 Grams
Solids / Lipids: 100 %
Original pH : NA
Batch ID: WG5212

Filename: a24jan01b-7
Retchk: a24jan01b-1
Begin ConCal: a24jan01b-1

Initial Cal: m1613-052699m

Reviewed by: [illegible]
Date: 1/26/01

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Analytical Results
for
Ongoing Precision Result (OPR)

Analyte	Spiked pg/ul	AMT pg/ul	REC %	Range pg/ul Lower	Range pg/ul Upper	Flag
2,3,7,8-TCDD	10.0	9.08	90.8	6.7	15.8	
1,2,3,7,8-PeCDD	25.0	23.3	93.1	17.5	35.5	
1,2,3,4,7,8-HxCDD	25.0	21.8	87.3	17.5	41.0	
1,2,3,6,7,8-HxCDD	25.0	22.2	88.8	19.0	33.4	
1,2,3,7,8,9-HxCDD	25.0	22.0	88.2	16.0	40.5	
1,2,3,4,6,7,8-HpCDD	25.0	27.1	108	17.5	35.0	
OCDD	50.0	49.7	99.3	39.0	72.0	
2,3,7,8-TCDF	10.0	9.40	94.0	7.5	15.8	
1,2,3,7,8-PeCDF	25.0	24.9	99.4	20.0	33.5	
2,3,4,7,8-PeCDF	25.0	23.3	93.1	17.0	40.0	
1,2,3,4,7,8-HxCDF	25.0	23.7	94.7	18.0	33.5	
1,2,3,6,7,8-HxCDF	25.0	23.4	93.8	21.0	32.5	
2,3,4,6,7,8-HxCDF	25.0	25.4	102	17.5	39.0	
1,2,3,7,8,9-HxCDF	25.0	21.7	86.8	19.5	32.5	
1,2,3,4,6,7,8-HpCDF	25.0	22.9	91.6	20.5	30.5	
1,2,3,4,7,8,9-HpCDF	25.0	21.4	85.7	19.5	34.5	
OCDF	50.0	47.0	94.0	37.0	73.0	

= Outside range limits
* = Ion Ratio Out

QC Information

OPR Project No:	WG5198
Extraction Date:	15-Jan-01
Analysis Date:	18-JAN-01
Method:	1613

File Information

OPR Filename :	a18jan01a-2
Retchk:	a18jan01a-1
Begin ConCal:	a18jan01a-1
Initial Cal:	m1613-052699m

Sample Information

Matrix: Soil

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Analytical Results
for
Ongoing Precision Result (OPR)

Labeled Standard	Spiked pg/ul	AMT pg/ul	REC %	Range pg/ul Lower	Range pg/ul Upper	Flag
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	100	109	109	20	175	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	100	98.2	98.2	21	227	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	100	98.8	98.8	21	193	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	100	119	119	25	163	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	100	83.9	83.9	26	166	
$^{13}C_{12}$-OCDD	200	166	83.0	26	397	
$^{13}C_{12}$-2,3,7,8-TCDF	100	125	125	22	152	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	100	117	117	21	192	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	100	118	118	13	328	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	100	94.9	94.9	19	202	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	100	104	104	21	159	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	100	99.3	99.3	22	176	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	100	115	115	17	205	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	100	101	101	21	158	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	100	105	105	20	186	
Cleanup Standards						
$^{37}C_{14}$-2,3,7,8-TCDD	40.0	39.7	99.3	12.4	76.4	

QC Information

OPR Project No: WG5198
Extraction Date: 15-Jan-01
Analysis Date: 18-JAN-01
Method: 1613

File Information

OPR Filename : a18jan01a-2
Retchk: a18jan01a-1
Begin ConCal: a18jan01a-1
Initial Cal: m1613-052699m

Sample Information

Matrix: Soil

Reviewed by: [illegible]

Date Reviewed: 1/22/01

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Analytical Results
for
Ongoing Precision Result (OPR)

Analyte	Spiked	AMT	REC	Range pg/ul		Flag
	pg/ul	pg/ul	%	Lower	Upper	
2,3,7,8-TCDD	5.00	4.39	87.7	3.4	7.9	
1,2,3,7,8-PeCDD	12.5	11.6	92.4	8.8	17.8	
1,2,3,4,7,8-HxCDD	12.5	9.95	79.6	8.8	20.5	
1,2,3,6,7,8-HxCDD	12.5	10.6	84.9	9.5	16.7	
1,2,3,7,8,9-HxCDD	12.5	10.8	86.0	8.0	20.3	
1,2,3,4,6,7,8-HpCDD	12.5	13.1	105	8.8	17.5	
OCDD	25.0	23.9	95.7	19.5	36.0	
2,3,7,8-TCDF	5.00	4.52	90.4	3.8	7.9	
1,2,3,7,8-PeCDF	12.5	11.6	92.7	10.0	16.8	
2,3,4,7,8-PeCDF	12.5	11.3	90.4	8.5	20.0	
1,2,3,4,7,8-HxCDF	12.5	11.5	92.1	9.0	16.8	
1,2,3,6,7,8-HxCDF	12.5	11.6	92.4	10.5	16.3	
2,3,4,6,7,8-HxCDF	12.5	12.4	99.6	8.8	19.5	
1,2,3,7,8,9-HxCDF	12.5	10.2	81.4	9.8	16.3	
1,2,3,4,6,7,8-HpCDF	12.5	10.8	86.3	10.3	15.3	
1,2,3,4,7,8,9-HpCDF	12.5	10.4	83.2	9.8	17.3	
OCDF	25.0	22.1	88.5	18.5	36.5	

= Outside range limits
* = Ion Ratio Out

QC Information

OPR Project No:	WG5201
Extraction Date:	16-Jan-01
Analysis Date:	17-JAN-01
Method:	1613

File Information

OPR Filename :	a17jan01a-6
Retchk:	a17jan01a-1
Begin ConCal:	a17jan01a-1
Initial Cal:	m1613-052699m

Sample Information

Matrix: Aqueous

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Analytical Results
for
Ongoing Precision Result (OPR)

Labeled Standard	Spiked pg/ul	AMT pg/ul	REC %	Range pg/ul Lower	Range pg/ul Upper	Flag
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	50.0	22.7	45.4	10	87.5	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	50.0	27.4	54.8	10.5	113.5	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	50.0	33.2	66.5	10.5	96.5	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	50.0	34.0	68.1	12.5	81.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	50.0	29.0	57.9	13	83	
$^{13}C_{12}$-OCDD	100	57.8	57.8	13	198.5	
$^{13}C_{12}$-2,3,7,8-TCDF	50.0	25.2	50.4	11	76	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	50.0	28.9	57.8	10.5	96	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	50.0	32.3	64.6	6.5	164	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	50.0	30.2	60.4	9.5	101	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	50.0	31.3	62.6	10.5	79.5	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	50.0	30.9	61.7	22	88	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	50.0	35.9	71.8	8.5	102.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	50.0	33.8	67.6	10.5	79	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	50.0	35.4	70.7	10	93	
Cleanup Standards						
$^{37}C_{14}$-2,3,7,8-TCDD	20.0	9.40	47.0	6.2	38.2	

QC Information

OPR Project No: WG5201
Extraction Date: 16-Jan-01
Analysis Date: 17-JAN-01
Method: 1613

File Information

OPR Filename : a17jan01a-6
Retchk: a17jan01a-1
Begin ConCal: a17jan01a-1
Initial Cal: m1613-052699m

Sample Information

Matrix: Aqueous

Reviewed by: [signature]

Date Reviewed: 1/18/01

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Analytical Results
for
Ongoing Precision Result (OPR)

Analyte	Spiked pg/ul	AMT pg/ul	REC %	Range pg/ul Lower	Range pg/ul Upper	Flag
2,3,7,8-TCDD	10.0	9.11	91.1	6.7	15.8	
1,2,3,7,8-PeCDD	25.0	23.1	92.5	17.5	35.5	
1,2,3,4,7,8-HxCDD	25.0	21.0	84.0	17.5	41.0	
1,2,3,6,7,8-HxCDD	25.0	21.6	86.5	19.0	33.4	
1,2,3,7,8,9-HxCDD	25.0	21.3	85.4	16.0	40.5	
1,2,3,4,6,7,8-HpCDD	25.0	27.4	110	17.5	35.0	
OCDD	50.0	51.1	102	39.0	72.0	
2,3,7,8-TCDF	10.0	9.14	91.4	7.5	15.8	
1,2,3,7,8-PeCDF	25.0	24.0	96.0	20.0	33.5	
2,3,4,7,8-PeCDF	25.0	22.5	90.2	17.0	40.0	
1,2,3,4,7,8-HxCDF	25.0	23.1	92.4	18.0	33.5	
1,2,3,6,7,8-HxCDF	25.0	23.1	92.4	21.0	32.5	
2,3,4,6,7,8-HxCDF	25.0	24.8	99.3	17.5	39.0	
1,2,3,7,8,9-HxCDF	25.0	21.1	84.2	19.5	32.5	
1,2,3,4,6,7,8-HpCDF	25.0	22.6	90.6	20.5	30.5	
1,2,3,4,7,8,9-HpCDF	25.0	21.3	85.1	19.5	34.5	
OCDF	50.0	46.5	92.9	37.0	73.0	

= Outside range limits
* = Ion Ratio Out

QC Information

OPR Project No:	WG5205
Extraction Date:	17-Jan-01
Analysis Date:	19-JAN-01
Method:	1613

File Information

OPR Filename :	a18jan01a_2-1
Retchk:	a18jan01a-15
Begin ConCal:	a18jan01a-15
Initial Cal:	m1613-052699m

Sample Information

Matrix:	Soil

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SOUTHERN WOOD PIEDMONT

Analytical Results
for
Ongoing Precision Result (OPR)

Labeled Standard	Spiked pg/ul	AMT pg/ul	REC %	Range pg/ul Lower	Range pg/ul Upper	Flag
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	100	87.9	87.9	20	175	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	100	97.2	97.2	21	227	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	100	83.0	83.0	21	193	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	100	95.4	95.4	25	163	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	100	71.1	71.1	26	166	
$^{13}C_{12}$-OCDD	200	140	70.0	26	397	
$^{13}C_{12}$-2,3,7,8-TCDF	100	99.0	99.0	22	152	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	100	92.2	92.2	21	192	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	100	108	108	13	328	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	100	86.7	86.7	19	202	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	100	86.8	86.8	21	159	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	100	82.1	82.1	22	176	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	100	95.9	95.9	17	205	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	100	85.6	85.6	21	158	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	100	89.3	89.3	20	186	
Cleanup Standards						
$^{37}C_{14}$-2,3,7,8-TCDD	200	165	82.6	62	382	

QC Information

OPR Project No: WG5205
Extraction Date: 17-Jan-01
Analysis Date: 19-JAN-01
Method: 1613

File Information

OPR Filename : a18jan01a_2-1
Retchk: a18jan01a-15
Begin ConCal: a18jan01a-15
Initial Cal: m1613-052699m

Sample Information

Matrix: Soil

Reviewed by: [illegible]

Date Reviewed: 1/22/01

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Analytical Results
for
Ongoing Precision Result (OPR)

Analyte	Spiked	AMT	REC	Range pg/ul		Flag
	pg/ul	pg/ul	%	Lower	Upper	
2,3,7,8-TCDD	10.0	8.68	86.8	6.7	15.8	
1,2,3,7,8-PeCDD	25.0	22.9	91.7	17.5	35.5	
1,2,3,4,7,8-HxCDD	25.0	20.5	82.0	17.5	41.0	
1,2,3,6,7,8-HxCDD	25.0	22.4	89.7	19.0	33.4	
1,2,3,7,8,9-HxCDD	25.0	21.1	84.2	16.0	40.5	
1,2,3,4,6,7,8-HpCDD	25.0	26.3	105	17.5	35.0	
OCDD	50.0	48.7	97.4	39.0	72.0	
2,3,7,8-TCDF	10.0	8.82	88.2	7.5	15.8	
1,2,3,7,8-PeCDF	25.0	22.6	90.5	20.0	33.5	
2,3,4,7,8-PeCDF	25.0	21.3	85.4	17.0	40.0	
1,2,3,4,7,8-HxCDF	25.0	23.3	93.0	18.0	33.5	
1,2,3,6,7,8-HxCDF	25.0	23.5	93.8	21.0	32.5	
2,3,4,6,7,8-HxCDF	25.0	24.9	99.7	17.5	39.0	
1,2,3,7,8,9-HxCDF	25.0	21.2	84.7	19.5	32.5	
1,2,3,4,6,7,8-HpCDF	25.0	22.7	90.8	20.5	30.5	
1,2,3,4,7,8,9-HpCDF	25.0	21.3	85.3	19.5	34.5	
OCDF	50.0	42.6	85.1	37.0	73.0	

= Outside range limits
* = Ion Ratio Out

QC Information

OPR Project No:	WG5212
Extraction Date:	23-Jan-01
Analysis Date:	24-JAN-01
Method:	1613

File Information

OPR Filename :	a24jan01b-6
Retchk:	a24jan01b-1
Begin ConCal:	a24jan01b-1
Initial Cal:	m1613-052699m

Sample Information

Matrix: Soil

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Analytical Results
for
Ongoing Precision Result (OPR)

Labeled Standard	Spiked pg/ul	AMT pg/ul	REC %	Range pg/ul Lower	Range pg/ul Upper	Flag
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	100	106	106	20	175	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	100	103	103	21	227	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	100	110	110	21	193	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	100	116	116	25	163	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	100	98.4	98.4	26	166	
$^{13}C_{12}$-OCDD	200	205	103	26	397	
$^{13}C_{12}$-2,3,7,8-TCDF	100	115	115	22	152	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	100	111	111	21	192	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	100	117	117	13	328	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	100	100	100	19	202	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	100	105	105	21	159	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	100	101	101	22	176	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	100	120	120	17	205	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	100	100	100	21	158	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	100	113	113	20	186	
Cleanup Standards						
$^{37}C_{14}$-2,3,7,8-TCDD	40.0	39.0	97.6	12.4	76.4	

QC Information

OPR Project No: WG5212
Extraction Date: 23-Jan-01
Analysis Date: 24-JAN-01
Method: 1613

File Information

OPR Filename : a24jan01b-6
Retchk: a24jan01b-1
Begin ConCal: a24jan01b-1
Initial Cal: m1613-052699m

Sample Information

Matrix: Soil

Reviewed by: [illegible]

Date Reviewed: 1/26/01

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TREEWOOD PIEDMONT

PARADIGM ALYTICAL LABORATORIES, INC.
2627 Northchase Parkway SE, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC#

Page 1 of 2

Contact: Greg Kuntz
Phone: 803-796-6240
P.O. No.:
Quote #:

Client: Southern Wood Piedmont
Address: P.O. Box 5447
Address: Spartanburg, SC 29304
Address:

Date: 1/11/01
T.A.T. (Std 21): Standard
Project ID: SWP-Wilmington
Job Number: 979007.A0-27

Report To: Sandra Watson
P.O. Box 5447
Spartanburg, SC 29304
Invoice To: Same

Report: Full ☐ Summary ☒
EDD: No ☐ Yes ☒

Sample ID	Date	Time	Matrix	Method 1613 2378-TCDD	1613 2378-TCDD/F	1613 Tetra-Octa	8290 2378-TCDD	8290 2378-TCDD/F	8290 Tetra-Octa	8280 2378-TCDD	8280 2378-TCDD/F	8280 Appendix IX	8280 Tetra-Octa	Other	Comments
SD-35 SWP Log# 17338	1/10/01	13:00	Solid			X									*Wilmington Site Specific
SD-34 17339		14:05													Dioxin-Furan Constituent
SD-09 17340		14:30													List.
SD-33 17341		14:55													G440-2
SD-32 17342		15:20													
SS-11 17343		16:10													
SD-31 17344		15:35													
SD-30 17345		16:50													
Equip1110IDF 17346	1/11/01	9:10	Liquid												
SS-24 17347		12:30	Solid			X									

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JAN 29 2001
SOUTHERNWOOD PIEDMONT

Relinquished By	Date	Time	Received By	Date	Time	Temp	Sampled	Airbill #
Gregory B. Kuntz	1/12/00	8:45	Julie John	1/12/01	0845	walk on ice		

ORIGINAL

PARADIGM ANALYTICAL LABORATORIES, INC.
2627 Northchase Parkway SE, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC#

Page 2 of 2

Contact: Greg Kuntz
Phone: 803-796-6240
P.O. No.:
Quote #:

Client: Southern Wood Piedmont
Address: P.O. Box 5447
Address: Spartanburg, SC 29304
Address:

Date: 1/11/01
T.A.T. (Std 21): Standard
Project ID: SWP-Wilmington
Job Number: 979007-AO-27

Report To: Sandra Watson
P.O. Box 5447
Spartanburg, SC 29304
Invoice To: same

Sample ID	Date	Time	Matrix	Method: 1613 2378-TCDD	1613 2378-TCDD/F	1613 Tetra-Octa	8290 2378-TCDD	8290 2378-TCDD/F	8290 Tetra-Octa	8280 2378-TCDD	8280 2378-TCDD/F	8280 Appendix IX	8280 Tetra-Octa	Other	Comments
SD-10 SWP log# 17348	1/11/00	13:10	Solid			X									*Wilmington Site Specific
SS-22 17349	↓	13:35	↓			↓									Dioxin-Furan Constituent
SS-20 17350		14:00													List
SD-11 17351		14:20													G440-2
SS-18 17352		14:45													
SS-17 17353		15:10													
SS-15 17354	↓	15:45	↓			↓									
& 17															

Report:
Full ☐
Summary ☒
EDD: No ☐
Yes ☒

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SOUTHERN WOOD PIEDMONT

Relinquished By	Date	Time	Received By	Date	Time	Temp	Sampled	Airbill #
Gregory B. Kuntz	1/12/00	8:45	[illegible signature]	1/12/01	0845	warm wia		

ORIGINAL

JBW
G. Kurtz -
Schnal

PARADIGM ANALYTICAL LABORATORIES, INC.
2627 Northchase Parkway S.E.
Wilmington, North Carolina 28405
(910) 350-1903
Fax (910) 350-1557

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Friday, February 12, 2001

Ms. Sandra Watson
Southern Wood Piedmont
591 Springfield Road
Spartanburg, SC 29304

Dear Ms. Watson:

Enclosed are the final results for the samples received by Paradigm Analytical Laboratories, Inc. on January 23, 2001 under your Project Name "SWP-Wilmington". The samples were analyzed by Method 1613 following Paradigm's Standard Operating Procedures. Please see Page 2 of this report for the case narrative.

A summary data package has been provided.

No. of Samples Received:	**10 Solid; 1 Liquid**
Your Project Number:	**97979007.AO-27**
PAL Project No.:	**G440-3**

We appreciate your business and look forward to working with you again. Please contact me if you have questions or need additional technical support.

Sincerely,

Christopher K. Cornwell

Christopher K. Cornwell
Assistant Director

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N.C. Certification #481 S.C. Certification #99029

Case Narrative
Paradigm Project G440-3

Client Project No.:	979007.A0-27
Client Project Name:	SWP-Wilmington
No. of Samples Received:	10 Solids; 1 Liquid
No. of Samples Analyzed:	11
Method:	1613
No. of LMBs:	3
No. of OPRs:	3

- Less than 10g of sample were extracted for each analysis because high levels were expected. Detection limit requirements have been met.
- Dilution of three of the extracts was required to improve the chromatography and the quality of the data for some homologues. The data is qualified with a "D*" following the Paradigm Sample ID, where the "*" indicates the dilution level. There is no need to adjust the reported concentrations.
- Please note that in cases where data are reported from two separate analyses, the partial TEQs from the two analyses must be combined to obtain the total sample TEQ.
- Samples 13445, 13446 and 13447 were re-extracted due to high levels of interferences in the original analyses. The extraction sample sizes were reduced to approximately 1 gram. The Paradigm Sample IDs have been appended with an "S".
- The extracts for samples 13445, 13446, and 13447 underwent an additional cleanup step to reduce the level of interferences. The Extraction Standard recoveries do not reflect any loss that may have occurred during the final cleanup step. The Paradigm Sample IDs are appended with a "C".

Christopher E. Larkins

W.M. Larkins
Technical Director

February 12, 2001

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Table 1: Toxic Equivalency Factors

Analyte	World Health Organization	International-89	MADEP
2,3,7,8-TCDD	1	1	1
1,2,3,7,8-PeCDD	1	0.5	0.5
1,2,3,4,7,8-HxCDD	0.1	0.1	0.1
1,2,3,6,7,8-HxCDD	0.1	0.1	0.1
1,2,3,7,8,9-HxCDD	0.1	0.1	0.1
1,2,3,4,6,7,8-HpCDD	0.01	0.01	0.1
OCDD	0.0001	0.001	0.001
2,3,7,8-TCDF	0.1	0.1	0.1
1,2,3,7,8-PeCDF	0.05	0.05	0.5
2,3,4,7,8-PeCDF	0.5	0.5	0.5
1,2,3,4,7,8-HxCDF	0.1	0.1	0.1
1,2,3,6,7,8-HxCDF	0.1	0.1	0.1
2,3,4,6,7,8-HxCDF	0.1	0.1	0.1
1,2,3,7,8,9-HxCDF	0.1	0.1	0.1
1,2,3,4,6,7,8-HpCDF	0.01	0.01	0.1
1,2,3,4,7,8,9-HpCDF	0.01	0.01	0.1
OCDF	0.0001	0.001	0.001

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Gregory Kuntz

From: Gregory Kuntz
Sent: Thursday, February 22, 2001 8:26 AM
To: 'sandra.watson@rayonier.com'
Cc: 'william.arrants@rayonier.com'; 'teresa.lee@rayonier.com'
Subject: Follow-up notes to conversation about Paradigm qualifiers on lab reports.

To perform the dioxin/furan analytical work a calibration curves is prepared using 5 standards for each sample and each constituent.

Two points are marked on the calibration curve, the lower calibration point (LCP) and the upper calibration point (UCP). The lower calibration point is similar to the PQL in other analytical work.

The part of the curve between the two points is the calibration limit. Within this zone reliable accurate concentrations can be determined (no qualifiers).

Below the lower calibration point is the Estimated Detection Limit (EDL) which is the lowest observable concentration by the analytical instrumentation. In dioxin/furan analytical work the EDL varies with each sample and each constituent, unlike routine analytical work (8260B and 8270C). The EDL is similar to MDL in other analytical work.

Any detection that falls along the part of the curve between the EDL and the lower calibration limit is given an "A" qualifier. A high degree of confidence in the result is there but the result can not be called reliable (accurate) because it is below the calibration limit. An "A" qualifier is similar to a "J" qualifier in other analytical work.

Any detection that falls above the upper calibration limit is given an "E" qualifier. Again, a high degree of confidence is present but the concentration is above the upper calibration limit. The curve between the upper and lower calibration limit is linear. There is no way of knowing if the curve continues to be linear above the upper calibration limit, therefore it is flagged.

The Estimated Maximum Possible Concentration (EMPC) qualifier is listed when the detection meets all QA/QC requirements except for the ion concentration is out of wack. Interferences may be occurring that mask the result or the constituent may or may not be present. No additional qualifiers are listed with EMPC.

This information was obtained through conversation with Heather Patterson and Chris Cornwell of Paradigm Analytical Laboratories (910-350-1903) on February 22, 2001.

"E"---------"UCP"----------"LCP"--------"J"--------"EDL"

I hope this is beneficial and please let me know if I can provide any additional information.

Thanks,

Greg

Table 2. List of Qualifiers

chris Cornwell
Heather Patterson

"J"	A	Amount detected is less than the Calibration Limit — does not apply to P/F
	B	Analyte was detected in the LMB at a level above the RL or EDL.
outside linear range can quantitate if saturate then dilute	E	Amount detected is over the Method Calibration Limit
can be sure that conc is lower	DPE	Denotes the presence of possible polychlorinated diphenylethers
	EDL	"Estimated Detection Limit" – like MDL except for varies per sample matrix — meets all requirements except ion concentration is out of whack. Dilution if present could be masked
	EMPC	"Estimated Maximum Possible Concentration" — can't have flag won't flag — may or may not be present could be all interference
	ppt	Parts-per-trillion (pg/g; ng/L)
not considered true concentration won't have a qualifier	Q	Indicates the presence of quantitative interferences. They generally result in an underestimation of the affected total homologue groups. — stable if dup unchanged
	V	Recovery is lower than 40%. The data has been validated based on a favorable signal-to-noise and detection limit.
	#	Outside recovery limits
	*	See cover letter

A < CL – finite # 5 standard build curve

MDL varies each sample & each constituent

said this to us — PQL – not shown of report

lowest point on calibration curve ~~is lowest~~

E > upper calibration limit

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-2

Method 1613

SD-30-DUP

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8–TCDD	1.24			31:05	0.73	A
1,2,3,7,8-PeCDD	8.64			33:57	1.5	A
1,2,3,4,7,8-HxCDD	9.13			36:28	1.14	A
1,2,3,6,7,8-HxCDD	269			36:34	1.16	
1,2,3,7,8,9-HxCDD	82.0			36:48	1.17	
1,2,3,4,6,7,8-HpCDD	4330			39:47	1.04	
2,3,7,8–TCDF	4.07			30:16	0.74	
1,2,3,7,8-PeCDF	16.9			33:10	1.50	
2,3,4,7,8-PeCDF	127			33:47	1.48	
1,2,3,4,7,8-HxCDF	275			35:47	1.21	
1,2,3,6,7,8-HxCDF	96.3			35:53	1.22	
2,3,4,6,7,8-HxCDF	171			36:21	1.21	
1,2,3,7,8,9-HxCDF	106			37:07	1.14	
Total TCDDs	33.9		50.4			Q
Total PeCDDs	220					Q
Total HxCDDs	2620		2630			
Total HpCDDs	21000					
Total TCDFs	262		264			Q DPE
Total PeCDFs	488		491			Q DPE
Total HxCDFs	12300					DPE
ITEF TEQ (ND=0)	214		214			*
ITEF TEQ (ND=½)	214		214			*

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-30-DUP

Laboratory Information

Project ID: G440-3
Sample ID: 13438

Collection Date/Time: 23-Jan-01 09:30
Receipt Date: 23-Jan-01
Extraction Date: 24-Jan-01
Analysis Date: 26-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 05.14 Grams
Solids / Lipids: 49.6 %
Original pH : NA
Batch ID: WG5217

Filename: a25jan01a_2-1
Retchk: a25jan01a-15
Begin ConCal: a25jan01a-15

Initial Cal: m1613-052699m

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Method 1613

SD-30-DUP

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	2.12	106.2	31:04	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.99	99.3	33:56	1.55	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	2.07	103.3	36:28	1.22	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.25	112.7	36:34	1.21	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.97	98.3	39:46	1.04	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.34	117.0	30:15	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.24	112.0	33:09	1.51	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.27	113.5	33:45	1.54	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.99	99.3	35:46	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.10	105.2	35:52	0.5	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.97	98.4	36:21	0.5	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.32	116.0	37:06	0.49	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.81	100.6	31:05		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:28	0.81	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:21	0.5	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-30-DUP

Laboratory Information

Project ID: G440-3
Sample ID: 13438

Collection Date/Time: 23-Jan-01 09:30
Receipt Date: 23-Jan-01
Extraction Date: 24-Jan-01
Analysis Date: 26-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 05.14 Grams
Solids / Lipids: 49.6 %
Original pH : NA
Batch ID: WG5217

Filename: a25jan01a_2-1
Retchk: a25jan01a-15
Begin ConCal: a25jan01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 30Jan01

Reviewed by: DEO
Date: 1/30/01

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Method 1613

SD-30-DUP

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
OCDD	42600			43:53	0.85	
1,2,3,4,6,7,8-HpCDF	27500			38:33	1.02	
1,2,3,4,7,8,9-HpCDF	232			40:25	1.02	
OCDF	23600			44:11	0.86	
Total HpCDFs	51300					
ITEF TEQ (ND=0)	344		344			*
ITEF TEQ (ND=½)	344		344			*

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-30-DUP

Laboratory Information

Project ID: G440-3
Sample ID: 13438 D5

Collection Date/Time: 23-Jan-01 09:30
Receipt Date: 23-Jan-01
Extraction Date: 24-Jan-01
Analysis Date: 30-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 05.14 Grams
Solids / Lipids: 49.6 %
Original pH : NA
Batch ID: WG5217

Filename: a29jan01a_2-3
Retchk: a29jan01a-15
Begin ConCal: a29jan01a-15

Initial Cal: m1613-052699m

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Method 1613

SD-30-DUP

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-OCDD	4	3.90	97.5	43:52	0.89	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.66	133.0	38:32	0.53	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.36	118.2	40:25	0.46	
Injection Standards						
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:20	0.51	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-30-DUP

Laboratory Information

Project ID: G440-3
Sample ID: 13438 D5

Collection Date/Time: 23-Jan-01 09:30
Receipt Date: 23-Jan-01
Extraction Date: 24-Jan-01
Analysis Date: 30-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 05.14 Grams
Solids / Lipids: 49.6 %
Original pH : NA
Batch ID: WG5217

Filename: a29jan01a_2-3
Retchk: a29jan01a-15
Begin ConCal: a29jan01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 30 Jan 01

Reviewed by: [illegible]
Date: 1/30/01

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SOUTHERN WOOD PIEDMONT

Method 1613

SD-29 SWP Log #17394

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	EMPC	0.247	0.504	31:05	0.55	
1,2,3,7,8-PeCDD	2.35			33:57	1.42	A
1,2,3,4,7,8-HxCDD	9.85			36:29	1.16	
1,2,3,6,7,8-HxCDD	116			36:34	1.13	
1,2,3,7,8,9-HxCDD	19.7			36:48	1.16	
2,3,7,8--TCDF	0.861			30:18	0.81	A
1,2,3,7,8-PeCDF	2.84			33:10	1.49	A
2,3,4,7,8-PeCDF	8.64			33:47	1.45	
1,2,3,4,7,8-HxCDF	32.0			35:47	1.20	
1,2,3,6,7,8-HxCDF	12.9			35:53	1.19	
2,3,4,6,7,8-HxCDF	19.4			36:21	1.34	
1,2,3,7,8,9-HxCDF	10.0			37:08	1.19	
1,2,3,4,6,7,8-HpCDF	2190			38:33	1.08	
1,2,3,4,7,8,9-HpCDF	41.5			40:26	1.12	
OCDF	3790			44:12	0.85	
Total TCDDs	2.16		6.29			Q
Total PeCDDs	46.8					Q
Total HxCDDs	1520					
Total TCDFs	14.8		15.7			Q
Total PeCDFs	80.3					Q
Total HxCDFs	1250					DPE
Total HpCDFs	5590					DPE
ITEF TEQ (ND=0)	53.8		54.3			*
ITEF TEQ (ND=½)	53.9		54.3			*

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-29 SWP Log #17394

Laboratory Information

Project ID: G440-3
Sample ID: 13439

Collection Date/Time: 23-Jan-01 10:00
Receipt Date: 23-Jan-01
Extraction Date: 24-Jan-01
Analysis Date: 26-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 04.94 Grams
Solids / Lipids: 65.8 %
Original pH : NA
Batch ID: WG5217

Filename: a25jan01a_2-2
Retchk: a25jan01a-15
Begin ConCal: a25jan01a-15

Initial Cal: m1613-052699m

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SOUTHERN WOOD PIEDMONT

Method 1613

SD-29 SWP Log #17394

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	2.13	106.4	31:05	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.91	95.6	33:56	1.53	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	2.01	100.6	36:28	1.17	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.25	112.6	36:34	1.17	
$^{13}C_{12}$-OCDD	4	5.00	124.9	43:55	0.92	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.29	114.7	30:16	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.15	107.3	33:10	1.57	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.19	109.6	33:46	1.52	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	2.00	99.8	35:46	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.01	100.7	35:53	0.49	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.94	97.1	36:21	0.49	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.29	114.3	37:06	0.49	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.12	106.2	38:33	0.48	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.29	114.5	40:25	0.48	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.82	102.3	31:06		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:29	0.8	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:21	0.49	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-29 SWP Log #17394

Laboratory Information

Project ID: G440-3
Sample ID: 13439

Collection Date/Time: 23-Jan-01 10:00
Receipt Date: 23-Jan-01
Extraction Date: 24-Jan-01
Analysis Date: 26-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 04.94 Grams
Solids / Lipids: 65.8 %
Original pH : NA
Batch ID: WG5217

Filename: a25jan01a_2-2
Retchk: a25jan01a-15
Begin ConCal: a25jan01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 30Jan01

Reviewed by: [illegible]
Date: 1/30/01

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Method 1613

SD-29 SWP Log #17394

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
1,2,3,4,6,7,8-HpCDD	6810			39:47	1.04	
OCDD	77100			43:54	0.85	E
Total HpCDDs	41900					
ITEF TEQ (ND=0)	145		145			*
ITEF TEQ (ND=½)	145		145			*

Client Information

Project Name:	SWP-Wilmington
Sample ID:	SD-29 SWP Log #17394

Laboratory Information

Project ID:	G440-3	
Sample ID:	13439	D5
Collection Date/Time:	23-Jan-01	10:00
Receipt Date:	23-Jan-01	
Extraction Date:	24-Jan-01	
Analysis Date:	30-Jan-01	

Sample Information

Matrix:	Solid	
Weight / Volume:	04.94	Grams
Solids / Lipids:	65.8	%
Original pH :	NA	
Batch ID:	WG5217	
Filename:	a29jan01a_2-4	
Retchk:	a29jan01a-15	
Begin ConCal:	a29jan01a-15	
Initial Cal:	m1613-052699m	

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Method 1613

SD-29 SWP Log #17394

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	2.06	103.0	39:45	1.04	
$^{13}C_{12}$-OCDD	4	5.02	125.6	43:53	0.93	
Injection Standards						
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:21	0.49	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-29 SWP Log #17394

Laboratory Information

Project ID: G440-3
Sample ID: 13439 D5

Collection Date/Time: 23-Jan-01 10:00
Receipt Date: 23-Jan-01
Extraction Date: 24-Jan-01
Analysis Date: 30-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 04.94 Grams
Solids / Lipids: 65.8 %
Original pH : NA
Batch ID: WG5217

Filename: a29jan01a_2-4
Retchk: a29jan01a-15
Begin ConCal: a29jan01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 30Jan01

Reviewed by: [illegible]
Date: 1/30/01

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SOUTHERN WOOD PIEDMONT

Method 1613

SD-8 SWP Log #17395

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	EMPC	0.399	0.839	31:03	0.46	
1,2,3,7,8-PeCDD	4.27			33:57	1.75	A
1,2,3,4,7,8-HxCDD	9.23			36:29	1.22	A
1,2,3,6,7,8-HxCDD	119			36:34	1.19	
1,2,3,7,8,9-HxCDD	38.9			36:48	1.18	
1,2,3,4,6,7,8-HpCDD	4410			39:47	1.05	
OCDD	50800			43:54	0.89	E
2,3,7,8--TCDF	1.32			30:14	0.77	A
1,2,3,7,8-PeCDF	4.60			33:09	1.51	A
2,3,4,7,8-PeCDF	20.2			33:46	1.51	
1,2,3,4,7,8-HxCDF	62.9			35:46	1.25	
1,2,3,6,7,8-HxCDF	23.7			35:53	1.24	
2,3,4,6,7,8-HxCDF	40.0			36:21	1.25	
1,2,3,7,8,9-HxCDF	21.0			37:07	1.28	
1,2,3,4,6,7,8-HpCDF	5420			38:33	1.08	
1,2,3,4,7,8,9-HpCDF	58.9			40:25	1.08	
OCDF	4940			44:11	0.85	
Total TCDDs	19.0		27.1			Q
Total PeCDDs	95.4		99.3			Q
Total HxCDDs	1530					
Total HpCDDs	25300					
Total TCDFs	40.8		44.8			Q DPE
Total PeCDFs	200					Q DPE
Total HxCDFs	2560					
Total HpCDFs	10700					
ITEF TEQ (ND=0)	199		200			
ITEF TEQ (ND=½)	199		200			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-8 SWP Log #17395		
Laboratory Information			
Project ID:	G440-3		
Sample ID:	13440		
Collection Date/Time:	23-Jan-01	10:25	
Receipt Date:	23-Jan-01		
Extraction Date:	24-Jan-01		
Analysis Date:	26-Jan-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	05.31	Grams
Solids / Lipids:	36.8	%
Original pH :	NA	
Batch ID:	WG5217	
Filename:	a25jan01a_2-3	
Retchk:	a25jan01a-15	
Begin ConCal:	a25jan01a-15	
Initial Cal:	m1613-052699m	

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Method 1613

SD-8 SWP Log #17395

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	2.13	106.4	31:02	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	2.10	104.8	33:56	1.55	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	2.11	105.7	36:28	1.23	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.25	112.7	36:33	1.23	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.94	96.9	39:46	1.05	
$^{13}C_{12}$-OCDD	4	4.28	107.0	43:53	0.89	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.38	118.9	30:13	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.34	116.9	33:09	1.55	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.39	119.3	33:45	1.53	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	2.02	100.9	35:46	0.51	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.11	105.7	35:52	0.52	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	2.02	101.1	36:20	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.33	116.6	37:06	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.23	111.5	38:32	0.48	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.31	115.3	40:25	0.48	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.81	101.6	31:03		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:27	0.8	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:20	0.51	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-8 SWP Log #17395

Laboratory Information

Project ID: G440-3
Sample ID: 13440

Collection Date/Time: 23-Jan-01 10:25
Receipt Date: 23-Jan-01
Extraction Date: 24-Jan-01
Analysis Date: 26-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 05.31 Grams
Solids / Lipids: 36.8 %
Original pH : NA
Batch ID: WG5217

Filename: a25jan01a_2-3
Retchk: a25jan01a-15
Begin ConCal: a25jan01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 30 Jan 01

Reviewed by: [illegible]
Date: 1/30/01

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SOUTHERN WOOD PIEDMONT

Method 1613

SS-12 SWP Log #17396

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	EMPC	0.348	1.00	31:03	0.60	
1,2,3,7,8-PeCDD	EMPC	0.441	2.72	33:56	1.31	
1,2,3,4,7,8-HxCDD	3.79			36:28	1.10	A
1,2,3,6,7,8-HxCDD	17.1			36:34	1.16	
1,2,3,7,8,9-HxCDD	12.2			36:47	1.14	A
1,2,3,4,6,7,8-HpCDD	577			39:47	1.03	
OCDD	8980			43:54	0.86	
2,3,7,8--TCDF	1.17			30:14	0.8	A
1,2,3,7,8-PeCDF	1.02			33:09	1.49	A
2,3,4,7,8-PeCDF	7.63			33:46	1.4	A
1,2,3,4,7,8-HxCDF	4.32			35:46	1.20	A
1,2,3,6,7,8-HxCDF	9.42			35:53	1.22	A
2,3,4,6,7,8-HxCDF	6.59			36:21	1.32	A
1,2,3,7,8,9-HxCDF	1.56			37:07	1.21	A
1,2,3,4,6,7,8-HpCDF	233			38:33	1.07	
1,2,3,4,7,8,9-HpCDF	3.80			40:25	1.07	A
OCDF	252			44:11	0.84	
Total TCDDs	40.0		46.6			Q
Total PeCDDs	60.1		65.6			Q
Total HxCDDs	353					
Total HpCDDs	2480					
Total TCDFs	23.8		27.1			Q
Total PeCDFs	62.7		63.1			Q
Total HxCDFs	179					
Total HpCDFs	497					
ITEF TEQ (ND=0)	26.9		29.2			
ITEF TEQ (ND=½)	27.1		29.2			

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-12 SWP Log #17396

Laboratory Information

Project ID: G440-3
Sample ID: 13441

Collection Date/Time: 23-Jan-01 10:45
Receipt Date: 23-Jan-01
Extraction Date: 24-Jan-01
Analysis Date: 26-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 05.09 Grams
Solids / Lipids: 38.8 %
Original pH : NA
Batch ID: WG5217

Filename: a25jan01a_2-4
Retchk: a25jan01a-15
Begin ConCal: a25jan01a-15

Initial Cal: m1613-052699m

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Method 1613

SS-12 SWP Log #17396

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	2.06	102.9	31:02	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	2.00	100.0	33:56	1.53	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	2.04	101.9	36:28	1.25	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.16	108.1	36:33	1.21	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.81	90.4	39:46	1.05	
$^{13}C_{12}$-OCDD	4	3.37	84.2	43:53	0.85	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.28	113.9	30:13	0.82	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.20	110.2	33:09	1.53	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.26	113.1	33:45	1.52	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.95	97.3	35:46	0.52	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.03	101.6	35:52	0.52	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.93	96.6	36:21	0.52	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.21	110.6	37:06	0.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.01	100.5	38:32	0.48	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.20	110.2	40:25	0.48	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.76	95.3	31:03		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:27	0.8	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:21	0.52	

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-12 SWP Log #17396

Laboratory Information

Project ID: G440-3
Sample ID: 13441

Collection Date/Time: 23-Jan-01 10:45
Receipt Date: 23-Jan-01
Extraction Date: 24-Jan-01
Analysis Date: 26-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 05.09 Grams
Solids / Lipids: 38.8 %
Original pH : NA
Batch ID: WG5217

Filename: a25jan01a_2-4
Retchk: a25jan01a-15
Begin ConCal: a25jan01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 30 Jan 01

Reviewed by: [illegible]
Date: 1/30/01

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Method 1613

SS-13 SWP Log #17397

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	EMPC	0.227	0.682	31:02	0.44	
1,2,3,7,8-PeCDD	1.31			33:57	1.64	A
1,2,3,4,7,8-HxCDD	2.24			36:29	1.30	A
1,2,3,6,7,8-HxCDD	24.9			36:34	1.17	
1,2,3,7,8,9-HxCDD	8.39			36:48	1.12	A
1,2,3,4,6,7,8-HpCDD	882			39:47	1.05	
OCDD	10200			43:53	0.86	
2,3,7,8--TCDF	1.10			30:13	0.74	A
1,2,3,7,8-PeCDF	1.38			33:09	1.39	A
2,3,4,7,8-PeCDF	5.48			33:46	1.51	A
1,2,3,4,7,8-HxCDF	8.42			35:46	1.27	A
1,2,3,6,7,8-HxCDF	20.2			35:53	1.24	
2,3,4,6,7,8-HxCDF	11.2			36:21	1.25	
1,2,3,7,8,9-HxCDF	2.83			37:07	1.24	A
1,2,3,4,6,7,8-HpCDF	712			38:33	1.06	
1,2,3,4,7,8,9-HpCDF	9.62			40:25	1.06	
OCDF	712			44:11	0.83	
Total TCDDs	26.4		29.5			
Total PeCDDs	39.5		40.3			Q
Total HxCDDs	307					
Total HpCDDs	3900					
Total TCDFs	23.3		25.3			DPE
Total PeCDFs	63.5		63.8			Q
Total HxCDFs	375		377			
Total HpCDFs	1390					
ITEF TEQ (ND=0)	38.3		39.0			
ITEF TEQ (ND=½)	38.5		39.0			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SS-13 SWP Log #17397		

Laboratory Information

Project ID:	G440-3		
Sample ID:	13442		
Collection Date/Time:	23-Jan-01	11:10	
Receipt Date:	23-Jan-01		
Extraction Date:	24-Jan-01		
Analysis Date:	26-Jan-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	04.92	Grams
Solids / Lipids:	53.1	%
Original pH :	NA	
Batch ID:	WG5217	
Filename:	a25jan01a_2-5	
Retchk:	a25jan01a-15	
Begin ConCal:	a25jan01a-15	
Initial Cal:	m1613-052699m	

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Method 1613

SS-13 SWP Log #17397

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	2.17	108.3	31:01	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	2.18	109.0	33:56	1.54	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	2.13	106.6	36:28	1.24	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.27	113.6	36:33	1.24	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.91	95.4	39:46	1.05	
$^{13}C_{12}$-OCDD	4	3.61	90.2	43:53	0.85	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.44	122.2	30:13	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.31	115.7	33:08	1.56	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.45	122.4	33:45	1.52	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	2.01	100.6	35:46	0.51	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.11	105.6	35:52	0.52	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	2.00	100.0	36:20	0.52	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.30	114.8	37:05	0.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.16	108.0	38:32	0.47	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.26	113.2	40:25	0.49	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.83	103.3	31:02		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:26	0.78	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:20	0.52	

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-13 SWP Log #17397

Laboratory Information

Project ID: G440-3
Sample ID: 13442

Collection Date/Time: 23-Jan-01 11:10
Receipt Date: 23-Jan-01
Extraction Date: 24-Jan-01
Analysis Date: 26-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 04.92 Grams
Solids / Lipids: 53.1 %
Original pH : NA
Batch ID: WG5217

Filename: a25jan01a_2-5
Retchk: a25jan01a-15
Begin ConCal: a25jan01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 30 Jan 01

Reviewed by: [illegible]
Date: 1/30/01

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SOUTHERN WOOD PIEDMONT

Method 1613

SS-1 SWP Log #17398

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	EMPC	0.300	1.59	31:02	0.59	
1,2,3,7,8-PeCDD	6.00			33:57	1.45	A
1,2,3,4,7,8-HxCDD	8.54			36:29	1.36	A
1,2,3,6,7,8-HxCDD	48.5			36:34	1.2	
1,2,3,7,8,9-HxCDD	21.7			36:48	1.24	
1,2,3,4,6,7,8-HpCDD	1740			39:47	1.05	
OCDD	20000			43:54	0.86	
2,3,7,8--TCDF	3.25			30:14	0.71	
1,2,3,7,8-PeCDF	4.25			33:09	1.49	A
2,3,4,7,8-PeCDF	20.0			33:46	1.47	
1,2,3,4,7,8-HxCDF	24.2			35:46	1.19	
1,2,3,6,7,8-HxCDF	30.5			35:53	1.19	
2,3,4,6,7,8-HxCDF	28.8			36:21	1.23	
1,2,3,7,8,9-HxCDF	8.02			37:07	1.26	A
1,2,3,4,6,7,8-HpCDF	1630			38:33	1.08	
1,2,3,4,7,8,9-HpCDF	22.0			40:25	1.07	
OCDF	1560			44:11	0.84	
Total TCDDs	18.8		23.6			
Total PeCDDs	58.5		59.8			Q
Total HxCDDs	615					
Total HpCDDs	7290					
Total TCDFs	67.9		74.4			DPE
Total PeCDFs	209		210			Q DPE
Total HxCDFs	900					
Total HpCDFs	3130					
ITEF TEQ (ND=0)	86.0		87.6			
ITEF TEQ (ND=½)	86.2		87.6			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SS-1 SWP Log #17398		
Laboratory Information			
Project ID:	G440-3		
Sample ID:	13443		
Collection Date/Time:	23-Jan-01 12:15		
Receipt Date:	23-Jan-01		
Extraction Date:	24-Jan-01		
Analysis Date:	26-Jan-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	04.99	Grams
Solids / Lipids:	35.5	%
Original pH :	NA	
Batch ID:	WG5217	
Filename:	a25jan01a_2-6	
Retchk:	a25jan01a-15	
Begin ConCal:	a25jan01a-15	
Initial Cal:	m1613-052699m	

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SOUTHERN WOOD PIEDMONT

Method 1613

SS-1 SWP Log #17398

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	2.09	104.3	31:02	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	2.13	106.7	33:56	1.54	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	2.11	105.7	36:28	1.22	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.26	112.8	36:33	1.2	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.92	96.1	39:46	1.04	
$^{13}C_{12}$-OCDD	4	3.84	95.9	43:53	0.86	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.34	117.2	30:13	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.24	112.1	33:08	1.55	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.41	120.5	33:45	1.56	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	2.01	100.7	35:46	0.50	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.10	105.0	35:52	0.51	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	2.02	100.9	36:21	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.33	116.6	37:06	0.52	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.12	106.0	38:32	0.48	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.29	114.4	40:25	0.47	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.80	99.6	31:03		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:27	0.8	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:21	0.51	

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-1 SWP Log #17398

Laboratory Information

Project ID: G440-3
Sample ID: 13443

Collection Date/Time: 23-Jan-01 12:15
Receipt Date: 23-Jan-01
Extraction Date: 24-Jan-01
Analysis Date: 26-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 04.99 Grams
Solids / Lipids: 35.5 %
Original pH : NA
Batch ID: WG5217

Filename: a25jan01a_2-6
Retchk: a25jan01a-15
Begin ConCal: a25jan01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 30Jan01

Reviewed by: [illegible]
Date: 1/30/01

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SOUTHERN WOOD PIEDMONT

Method 1613

SD-20 SWP Log #17399

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	2.09			31:03	0.67	A
1,2,3,7,8-PeCDD	8.71			33:57	1.67	A
1,2,3,4,7,8-HxCDD	24.3			36:29	1.13	
1,2,3,6,7,8-HxCDD	197			36:34	1.17	
1,2,3,7,8,9-HxCDD	53.2			36:48	1.13	
1,2,3,4,6,7,8-HpCDD	9920			39:47	1.05	
2,3,7,8--TCDF	5.50			30:14	0.72	
1,2,3,7,8-PeCDF	6.69			33:10	1.52	A
2,3,4,7,8-PeCDF	20.4			33:46	1.5	
1,2,3,4,7,8-HxCDF	69.7			35:46	1.25	
1,2,3,6,7,8-HxCDF	39.8			35:53	1.29	
2,3,4,6,7,8-HxCDF	54.0			36:21	1.24	
1,2,3,7,8,9-HxCDF	20.6			37:08	1.25	
1,2,3,4,6,7,8-HpCDF	4900			38:33	1.09	
1,2,3,4,7,8,9-HpCDF	81.4			40:26	1.08	
OCDF	6820			44:12	0.84	
Total TCDDs	32.1		42.9			Q
Total PeCDDs	153		157			Q
Total HxCDDs	2900					
Total HpCDDs	56000					
Total TCDFs	69.0		76.4			Q DPE
Total PeCDFs	231		233			Q
Total HxCDFs	2630					
Total HpCDFs	11000					
ITEF TEQ (ND=0)	219		219			*
ITEF TEQ (ND=½)	219		219			*

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-20 SWP Log #17399		

Laboratory Information

Project ID:	G440-3		
Sample ID:	13444		
Collection Date/Time:	23-Jan-01	12:35	
Receipt Date:	23-Jan-01		
Extraction Date:	24-Jan-01		
Analysis Date:	26-Jan-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	05.10	Grams
Solids / Lipids:	26.7	%
Original pH :	NA	
Batch ID:	WG5217	
Filename:	a25jan01a_2-7	
Retchk:	a25jan01a-15	
Begin ConCal:	a25jan01a-15	
Initial Cal:	m1613-052699m	

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Method 1613

SD-20 SWP Log #17399

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	2.11	105.4	31:02	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	2.04	102.2	33:56	1.56	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	2.10	105.1	36:28	1.23	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.28	113.9	36:34	1.22	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	2.00	100.1	39:46	1.05	
$^{13}C_{12}$-OCDD	4	4.72	118.0	43:54	0.89	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.31	115.3	30:13	0.82	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.23	111.5	33:09	1.51	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.31	115.5	33:45	1.53	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	2.00	100.2	35:46	0.50	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.12	105.8	35:52	0.52	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	2.01	100.4	36:21	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.37	118.6	37:06	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.31	115.5	38:33	0.49	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.31	115.3	40:25	0.49	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.80	99.9	31:03		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:27	0.79	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:21	0.51	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-20 SWP Log #17399

Laboratory Information

Project ID: G440-3
Sample ID: 13444

Collection Date/Time: 23-Jan-01 12:35
Receipt Date: 23-Jan-01
Extraction Date: 24-Jan-01
Analysis Date: 26-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 05.10 Grams
Solids / Lipids: 26.7 %
Original pH : NA
Batch ID: WG5217

Filename: a25jan01a_2-7
Retchk: a25jan01a-15
Begin ConCal: a25jan01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 30JAN01

Reviewed by: [illegible]
Date: 1/30/01

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Method 1613

SD-20 SWP Log #17399

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
1,2,3,4,6,7,8-HpCDD	9920			39:47	1.05	
OCDD	111000			43:53	0.85	
Total HpCDDs	56900					
ITEF TEQ (ND=0)	210		210			
ITEF TEQ (ND=½)	210		210			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-20 SWP Log #17399		

Laboratory Information

Project ID:	G440-3		
Sample ID:	13444	D5	
Collection Date/Time:	23-Jan-01	12:35	
Receipt Date:	23-Jan-01		
Extraction Date:	24-Jan-01		
Analysis Date:	30-Jan-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	05.10	Grams
Solids / Lipids:	26.7	%
Original pH :	NA	
Batch ID:	WG5217	
Filename:	a29jan01a_2-5	
Retchk:	a29jan01a-15	
Begin ConCal:	a29jan01a-15	
Initial Cal:	m1613-052699m	

Method 1613

SD-20 SWP Log #17399

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.90	94.9	39:46	1.07	
$^{13}C_{12}$-OCDD	4	4.18	104.6	43:52	0.88	
Injection Standards						
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:21	0.51	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-20 SWP Log #17399

Laboratory Information

Project ID: G440-3
Sample ID: 13444 D5

Collection Date/Time: 23-Jan-01 12:35
Receipt Date: 23-Jan-01
Extraction Date: 24-Jan-01
Analysis Date: 30-Jan-01

Sample Information

Matrix: Solid
Weight / Volume: 05.10 Grams
Solids / Lipids: 26.7 %
Original pH : NA
Batch ID: WG5217

Filename: a29jan01a_2-5
Retchk: a29jan01a-15
Begin ConCal: a29jan01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 30Jan01

Reviewed by: [illegible]
Date: 1/30/01

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SOUTHERN WOOD PIEDMONT

Method 1613

SD-28 SWP Log #17400

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	EMPC	2.45	3.66	30:38	0.59	
1,2,3,7,8-PeCDD	33.9			33:41	1.63	A
1,2,3,4,7,8-HxCDD	406			36:12	1.07	
1,2,3,6,7,8-HxCDD	4580			36:15	1.14	
1,2,3,7,8,9-HxCDD	459			36:29	1.13	
2,3,7,8--TCDF	21.8			29:42	0.83	
1,2,3,7,8-PeCDF	95.6			32:55	1.53	
2,3,4,7,8-PeCDF	244			33:31	1.52	
1,2,3,4,7,8-HxCDF	770			35:29	1.19	
1,2,3,6,7,8-HxCDF	209			35:34	1.22	
2,3,4,6,7,8-HxCDF	446			36:02	1.19	
1,2,3,7,8,9-HxCDF	257			36:48	1.2	
1,2,3,4,6,7,8-HpCDF	52300			38:08	1.09	E
1,2,3,4,7,8,9-HpCDF	1250			39:55	1.09	
OCDF	100000			43:33	0.84	E
Total TCDDs	ND	5.19	12.8			Q
Total PeCDDs	733					
Total HxCDDs	54100					Q
Total TCDFs	145		161			Q
Total PeCDFs	1550		1550			Q
Total HxCDFs	32300					Q DPE
Total HpCDFs	162000					
ITEF TEQ (ND=0)	1490		1500			*
ITEF TEQ (ND=½)	1500		1500			*

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-28 SWP Log #17400		
Laboratory Information			
Project ID:	G440-3		
Sample ID:	13445SC		
Collection Date/Time:	23-Jan-01	13:05	
Receipt Date:	23-Jan-01		
Extraction Date:	02-Feb-01		
Analysis Date:	09-Feb-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	01.05	Grams
Solids / Lipids:	38.6	%
Original pH :	NA	
Batch ID:	WG5245	
Filename:	a08feb01a_2-7	
Retchk:	a08feb01a-15	
Begin ConCal:	a08feb01a-15	
Initial Cal:	m1613-052699m	

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SOUTHERN WOOD PIEDMONT

Method 1613

SD-28 SWP Log #17400

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.78	89.2	30:37	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.80	89.8	33:41	1.56	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.98	99.2	36:09	1.17	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.05	102.4	36:15	1.18	
$^{13}C_{12}$-OCDD	4	5.99	149.7	43:21	1.24	
$^{13}C_{12}$-2,3,7,8-TCDF	2	1.32	66.0	29:41	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.01	100.3	32:54	1.57	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.04	102.0	33:29	1.58	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.93	96.7	35:28	0.50	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.90	95.0	35:33	0.49	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.83	91.7	36:02	0.5	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.23	111.7	36:46	0.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.05	102.4	38:07	0.49	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.32	115.8	39:54	0.48	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.69	86.8	30:39		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:52	0.79	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:02	0.5	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-28 SWP Log #17400

Laboratory Information

Project ID: G440-3
Sample ID: 13445SC

Collection Date/Time: 23-Jan-01 13:05
Receipt Date: 23-Jan-01
Extraction Date: 02-Feb-01
Analysis Date: 09-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 01.05 Grams
Solids / Lipids: 38.6 %
Original pH : NA
Batch ID: WG5245

Filename: a08feb01a_2-7
Retchk: a08feb01a-15
Begin ConCal: a08feb01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 12Feb01

Reviewed by: [illegible]
Date: 2/12/01

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Method 1613

SD-28 SWP Log #17400

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
1,2,3,4,6,7,8-HpCDD	268000			39:16	1.01	
OCDD	2360000			43:13	0.85	E
Total HpCDDs	1700000					
ITEF TEQ (ND=0)	5040		5040			*
ITEF TEQ (ND=½)	5040		5040			*

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-28 SWP Log #17400		
Laboratory Information			
Project ID:	G440-3		
Sample ID:	13445SC	D10	
Collection Date/Time:	23-Jan-01	13:05	
Receipt Date:	23-Jan-01		
Extraction Date:	02-Feb-01		
Analysis Date:	09-Feb-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	01.05	Grams
Solids / Lipids:	38.6	%
Original pH :	NA	
Batch ID:	WG5245	
Filename:	a09feb01a-7	
Retchk:	a09feb01a-1	
Begin ConCal:	a09feb01a-1	
Initial Cal:	m1613-052699m	

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SOUTHERN WOOD PIEDMONT

Method 1613

SD-28 SWP Log #17400

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	2.01	100.3	39:16	1.03	
$^{13}C_{12}$-OCDD	4	5.84	146.1	43:13	1.18	
Injection Standards						
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:58	0.5	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-28 SWP Log #17400

Laboratory Information

Project ID: G440-3
Sample ID: 13445SC D10

Collection Date/Time: 23-Jan-01 13:05
Receipt Date: 23-Jan-01
Extraction Date: 02-Feb-01
Analysis Date: 09-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 01.05 Grams
Solids / Lipids: 38.6 %
Original pH : NA
Batch ID: WG5245

Filename: a09feb01a-7
Retchk: a09feb01a-1
Begin ConCal: a09feb01a-1

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 12Feb01

Reviewed by: [illegible]
Date: 2/12/01

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Method 1613

SD-27 SWP Log #17401

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	EMPC	3.05	3.79	30:31	0.45	
1,2,3,7,8-PeCDD	29.4			33:39	1.75	A
1,2,3,4,7,8-HxCDD	61.0			36:06	1.12	
1,2,3,6,7,8-HxCDD	864			36:10	1.19	
1,2,3,7,8,9-HxCDD	218			36:24	1.16	
1,2,3,4,6,7,8-HpCDD	32300			39:16	1.04	
OCDD	356000			43:13	0.87	E
2,3,7,8--TCDF	5.34			29:34	0.78	A
1,2,3,7,8-PeCDF	44.4			32:51	1.55	A
2,3,4,7,8-PeCDF	99.7			33:28	1.49	
1,2,3,4,7,8-HxCDF	613			35:25	1.19	
1,2,3,6,7,8-HxCDF	171			35:31	1.22	
2,3,4,6,7,8-HxCDF	273			35:59	1.21	
1,2,3,7,8,9-HxCDF	216			36:43	1.16	
1,2,3,4,6,7,8-HpCDF	55300			38:06	1.08	E
1,2,3,4,7,8,9-HpCDF	560			39:53	1.08	
OCDF	55300			43:30	0.84	
Total TCDDs	63.0		86.4			
Total PeCDDs	654		664			
Total HxCDDs	9650					
Total HpCDDs	183000					
Total TCDFs	91.1		95.2			
Total PeCDFs	722		726			
Total HxCDFs	23500					DPE
Total HpCDFs	109000					DPE
ITEF TEQ (ND=0)	1600		1610			
ITEF TEQ (ND=½)	1600		1610			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-27 SWP Log #17401		

Laboratory Information

Project ID:	G440-3		
Sample ID:	13446SC		
Collection Date/Time:	23-Jan-01	13:30	
Receipt Date:	23-Jan-01		
Extraction Date:	02-Feb-01		
Analysis Date:	09-Feb-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	01.01	Grams
Solids / Lipids:	43.4	%
Original pH :	NA	
Batch ID:	WG5245	
Filename:	a08feb01a_2-8	
Retchk:	a08feb01a-15	
Begin ConCal:	a08feb01a-15	
Initial Cal:	m1613-052699m	

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Method 1613

SD-27 SWP Log #17401

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.88	94.0	30:29	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.83	91.7	33:37	1.56	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.97	98.5	36:05	1.24	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.25	112.7	36:10	1.23	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.92	96.1	39:16	1.04	
$^{13}C_{12}$-OCDD	4	3.67	91.9	43:13	0.93	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.14	106.8	29:33	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.15	107.7	32:51	1.66	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.12	106.2	33:26	1.56	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.91	95.3	35:24	0.50	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.04	101.8	35:30	0.52	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.89	94.7	35:57	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.26	113.0	36:41	0.52	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.21	110.5	38:05	0.49	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.35	117.5	39:53	0.47	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.73	91.4	30:30		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:46	0.79	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:57	0.51	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-27 SWP Log #17401

Laboratory Information

Project ID: G440-3
Sample ID: 13446SC

Collection Date/Time: 23-Jan-01 13:30
Receipt Date: 23-Jan-01
Extraction Date: 02-Feb-01
Analysis Date: 09-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 01.01 Grams
Solids / Lipids: 43.4 %
Original pH : NA
Batch ID: WG5245

Filename: a08feb01a_2-8
Retchk: a08feb01a-15
Begin ConCal: a08feb01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 12Feb01

Reviewed by: [illegible]
Date: 2/12/01

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SOUTHERN WOOD PIEDMONT

Method 1613

SD-26 SWP Log #17402

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	EMPC	3.03	5.12	30:36	0.56	
1,2,3,7,8-PeCDD	61.8			33:39	1.67	
1,2,3,4,7,8-HxCDD	246			36:07	1.13	
1,2,3,6,7,8-HxCDD	3260			36:12	1.15	
1,2,3,7,8,9-HxCDD	672			36:25	1.19	
2,3,7,8--TCDF	8.00			29:37	0.84	A
1,2,3,7,8-PeCDF	99.2			32:53	1.48	
2,3,4,7,8-PeCDF	285			33:29	1.51	
1,2,3,4,7,8-HxCDF	1850			35:26	1.14	
1,2,3,6,7,8-HxCDF	475			35:32	1.17	
2,3,4,6,7,8-HxCDF	784			35:59	1.17	
1,2,3,7,8,9-HxCDF	598			36:45	1.13	
Total TCDDs	98.9		114			Q
Total PeCDDs	1490					Q
Total HxCDDs	42500					
Total TCDFs	176		203			Q DPE
Total PeCDFs	2180					Q
Total HxCDFs	68700					DPE
ITEF TEQ (ND=0)	968		973			*
ITEF TEQ (ND=½)	969		973			*

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-26 SWP Log #17402		

Sample Information

Matrix:	Solid	
Weight / Volume:	01.02	Grams
Solids / Lipids:	40.9	%
Original pH :	NA	

Laboratory Information

Project ID:	G440-3		Batch ID:	WG5245
Sample ID:	13447SC			
			Filename:	a08feb01a_2-9
Collection Date/Time:	23-Jan-01	14:20	Retchk:	a08feb01a-15
Receipt Date:	23-Jan-01		Begin ConCal:	a08feb01a-15
Extraction Date:	02-Feb-01			
Analysis Date:	09-Feb-01		Initial Cal:	m1613-052699m

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Method 1613

SD-26 SWP Log #17402

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.92	96.1	30:34	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.85	92.6	33:39	1.56	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	2.09	104.3	36:07	1.21	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.28	113.9	36:12	1.19	
$^{13}C_{12}$-2,3,7,8-TCDF	2	1.61	80.7	29:36	0.82	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.05	102.6	32:53	1.59	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.11	105.5	33:28	1.58	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	2.03	101.7	35:26	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.10	104.9	35:31	0.49	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.92	95.9	35:59	0.5	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.33	116.3	36:42	0.49	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.75	93.3	30:34		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:49	0.8	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:59	0.5	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-26 SWP Log #17402

Laboratory Information

Project ID: G440-3
Sample ID: 13447SC

Collection Date/Time: 23-Jan-01 14:20
Receipt Date: 23-Jan-01
Extraction Date: 02-Feb-01
Analysis Date: 09-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 01.02 Grams
Solids / Lipids: 40.9 %
Original pH : NA
Batch ID: WG5245

Filename: a08feb01a_2-9
Retchk: a08feb01a-15
Begin ConCal: a08feb01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 12Feb01

Reviewed by: [illegible]
Date: 2/12/01

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Method 1613

SD-26 SWP Log #17402

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
1,2,3,4,6,7,8-HpCDD	182000			39:16	1.03	
OCDD	1880000			43:13	0.86	E
1,2,3,4,6,7,8-HpCDF	144000			38:05	1.01	DPE
1,2,3,4,7,8,9-HpCDF	1620			39:53	1.02	
OCDF	136000			43:29	0.84	
Total HpCDDs	1110000					
Total HpCDFs	317000					DPE
ITEF TEQ (ND=0)	5290		5290			*
ITEF TEQ (ND=½)	5290		5290			*

Client Information

Project Name:	SWP-Wilmington		**Sample Information**		
Sample ID:	SD-26 SWP Log #17402		Matrix:	Solid	
			Weight / Volume:	01.02	Grams
Laboratory Information			Solids / Lipids:	40.9	%
			Original pH :	NA	
Project ID:	G440-3		Batch ID:	WG5245	
Sample ID:	13447SC	D10			
			Filename:	a09feb01a-8	
Collection Date/Time:	23-Jan-01	14:20	Retchk:	a09feb01a-1	
Receipt Date:	23-Jan-01		Begin ConCal:	a09feb01a-1	
Extraction Date:	02-Feb-01				
Analysis Date:	09-Feb-01		Initial Cal:	m1613-052699m	

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Method 1613

SD-26 SWP Log #17402

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	2.13	106.7	39:15	1.04	
$^{13}C_{12}$-OCDD	4	5.94	148.4	43:13	1.1 #	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.34	116.9	38:05	0.51	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.44	121.8	39:52	0.44	
Injection Standards						
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:58	0.51	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-26 SWP Log #17402

Laboratory Information

Project ID: G440-3
Sample ID: 13447SC D10

Collection Date/Time: 23-Jan-01 14:20
Receipt Date: 23-Jan-01
Extraction Date: 02-Feb-01
Analysis Date: 09-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 01.02 Grams
Solids / Lipids: 40.9 %
Original pH : NA
Batch ID: WG5245

Filename: a09feb01a-8
Retchk: a09feb01a-1
Begin ConCal: a09feb01a-1

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 12Feb01

Reviewed by: [illegible]
Date: 2/12/01

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SOUTHERN WOOD PIEDMONT

Method 1613

Equip 12301 SWP Log #17403

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (ng/L)	EDL (ng/L)	EMPC (ng/L)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.0025				
1,2,3,7,8-PeCDD	ND	0.0014				
1,2,3,4,7,8-HxCDD	ND	0.0013				
1,2,3,6,7,8-HxCDD	ND	0.0013				
1,2,3,7,8,9-HxCDD	ND	0.0012				
1,2,3,4,6,7,8-HpCDD	ND	0.0045				
OCDD	EMPC	0.0078	0.0071	43:13	0.90	
2,3,7,8--TCDF	ND	0.0014				
1,2,3,7,8-PeCDF	ND	0.0008				
2,3,4,7,8-PeCDF	0.0013			33:28	1.45	A
1,2,3,4,7,8-HxCDF	ND	0.0007				
1,2,3,6,7,8-HxCDF	ND	0.0007				
2,3,4,6,7,8-HxCDF	ND	0.0009				
1,2,3,7,8,9-HxCDF	ND	0.0011				
1,2,3,4,6,7,8-HpCDF	ND	0.0014				
1,2,3,4,7,8,9-HpCDF	ND	0.0024				
OCDF	ND	0.0056				
Total TCDDs	ND	0.0025				
Total PeCDDs	ND	0.0047				
Total HxCDDs	ND	0.0053				
Total HpCDDs	ND	0.0045				
Total TCDFs	ND	0.0014				
Total PeCDFs	0.0013					
Total HxCDFs	ND	0.0023				
Total HpCDFs	ND	0.0018				
ITEF TEQ (ND=0)	0.0006		0.0006			
ITEF TEQ (ND=½)	0.0028		0.0028			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	Equip 12301 SWP Log #17403		

Sample Information

Matrix:	Aqueous	
Weight / Volume:	502	mL
Solids / Lipids:	NA	
Original pH :	5	
Batch ID:	WG5240	
Filename:	a05feb01a_2-3	
Retchk:	a05feb01a-15	
Begin ConCal:	a05feb01a-15	
Initial Cal:	m1613-052699m	

Laboratory Information

Project ID:	G440-3	
Sample ID:	13448	
Collection Date/Time:	23-Jan-01	16:30
Receipt Date:	23-Jan-01	
Extraction Date:	01-Feb-01	
Analysis Date:	06-Feb-01	

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Method 1613

Equip 12301 SWP Log #17403

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	1	0.57	57.2	30:29	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	1	0.55	54.6	33:38	1.57	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	1	0.68	68.3	36:06	1.27	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1	0.75	74.5	36:11	1.28	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	1	0.49	49.2	39:15	1.05	
$^{13}C_{12}$-OCDD	2	0.77	38.5	43:11	0.83	
$^{13}C_{12}$-2,3,7,8-TCDF	1	0.71	71.3	29:33	0.82	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1	0.68	67.7	32:51	1.63	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1	0.70	69.9	33:26	1.59	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1	0.74	74.1	35:24	0.52	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1	0.78	78.0	35:30	0.51	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1	0.67	67.2	35:57	0.52	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1	0.68	67.9	36:41	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1	0.67	66.5	38:05	0.49	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1	0.55	54.7	39:53	0.5	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.4	0.29	72.0	30:30		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:46	0.82	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:57	0.52	

Client Information

Project Name: SWP-Wilmington
Sample ID: Equip 12301 SWP Log #17403

Laboratory Information

Project ID: G440-3
Sample ID: 13448

Collection Date/Time: 23-Jan-01 16:30
Receipt Date: 23-Jan-01
Extraction Date: 01-Feb-01
Analysis Date: 06-Feb-01

Sample Information

Matrix: Aqueous
Weight / Volume: 502 mL
Solids / Lipids: NA
Original pH : 5
Batch ID: WG5240

Filename: a05feb01a_2-3
Retchk: a05feb01a-15
Begin ConCal: a05feb01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 07Feb01

Reviewed by: [illegible]
Date: 2/9/01

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Method 1613 - QC BLANK Results

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Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	EMPC	0.0610	0.162	31:03	0.46	
1,2,3,7,8-PeCDD	0.116			33:57	1.61	A
1,2,3,4,7,8-HxCDD	EMPC	0.0430	0.104	36:29	1.47	
1,2,3,6,7,8-HxCDD	EMPC	0.0460	0.0980	36:34	1	
1,2,3,7,8,9-HxCDD	0.0860			36:48	1.07	A
1,2,3,4,6,7,8-HpCDD	0.260			39:46	1.1	A
OCDD	0.866			43:53	0.83	A
2,3,7,8--TCDF	0.144			30:14	0.76	A
1,2,3,7,8-PeCDF	0.134			33:10	1.48	A
2,3,4,7,8-PeCDF	0.132			33:46	1.42	A
1,2,3,4,7,8-HxCDF	0.124			35:47	1.22	A
1,2,3,6,7,8-HxCDF	0.106			35:53	1.3	A
2,3,4,6,7,8-HxCDF	0.114			36:21	1.34	A
1,2,3,7,8,9-HxCDF	0.0820			37:06	1.22	A
1,2,3,4,6,7,8-HpCDF	EMPC	0.0444	0.106	38:33	0.83	
1,2,3,4,7,8,9-HpCDF	ND	0.0600				
OCDF	ND	0.156				
Total TCDDs	ND	0.334	0.162			
Total PeCDDs	0.116					Q
Total HxCDDs	0.0860		0.288			
Total HpCDDs	0.442					
Total TCDFs	0.144		0.194			
Total PeCDFs	0.266					Q
Total HxCDFs	0.426					
Total HpCDFs	ND	0.0516	0.106			
ITEF TEQ (ND=0)	0.200		0.383			
ITEF TEQ (ND=½)	0.235		0.383			

Laboratory Information

Sample ID: WG5217-1

Extraction Date: 24-Jan-01
Analysis Date: 25-Jan-01

Sample Information

Matrix:	Soil	
Weight / Volume:	10.00	Grams
Solids / Lipids:	100	%
Original pH :	NA	
Batch ID:	WG5217	
Filename:	a25jan01a-5	
Retchk:	a25jan01a-1	
Begin ConCal:	a25jan01a-1	
Initial Cal:	m1613-052699m	

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Method 1613 - QC BLANK Results

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Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	2.10	105.2	31:02	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	2.09	104.3	33:56	1.58	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.99	99.3	36:28	1.28	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.28	113.9	36:34	1.26	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.78	88.9	39:46	1.07	
$^{13}C_{12}$-OCDD	4	2.78	69.5	43:53	0.84	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.38	118.9	30:13	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.22	111.0	33:09	1.58	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.36	117.8	33:45	1.55	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.86	93.0	35:46	0.48	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.09	104.7	35:52	0.5	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	2.00	100.2	36:21	0.52	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.21	110.5	37:06	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.02	101.2	38:33	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.19	109.3	40:25	0.47	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.80	100.0	31:03		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			30:26	0.81	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:21	0.52	

Laboratory Information

Sample ID: WG5217-1

Extraction Date: 24-Jan-01
Analysis Date: 25-Jan-01

Analyzed by: HMP
Date: 29Jan01

Sample Information

Matrix: Soil
Weight / Volume: 10.00 Grams
Solids / Lipids: 100 %
Original pH : NA
Batch ID: WG5217

Filename: a25jan01a-5
Retchk: a25jan01a-1
Begin ConCal: a25jan01a-1

Initial Cal: m1613-052699m

Reviewed by: [illegible]
Date: 1/29/01

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Method 1613 - QC BLANK Results

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Analytical Data Summary Sheet

Analyte	Amount (ng/L)	EDL (ng/L)	EMPC (ng/L)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.0027				
1,2,3,7,8-PeCDD	ND	0.0015				
1,2,3,4,7,8-HxCDD	ND	0.0019				
1,2,3,6,7,8-HxCDD	ND	0.0020				
1,2,3,7,8,9-HxCDD	ND	0.0018				
1,2,3,4,6,7,8-HpCDD	ND	0.0031				
OCDD	ND	0.0065				
2,3,7,8--TCDF	ND	0.0019				
1,2,3,7,8-PeCDF	ND	0.0009				
2,3,4,7,8-PeCDF	EMPC	0.0009	0.0017	33:27	2.04	
1,2,3,4,7,8-HxCDF	0.0021			35:25	1.16	A
1,2,3,6,7,8-HxCDF	EMPC	0.0011	0.0020	35:31	1.05	
2,3,4,6,7,8-HxCDF	ND	0.0015				
1,2,3,7,8,9-HxCDF	ND	0.0017				
1,2,3,4,6,7,8-HpCDF	ND	0.0013				
1,2,3,4,7,8,9-HpCDF	ND	0.0020				
OCDF	ND	0.0043				
Total TCDDs	ND	0.0027				
Total PeCDDs	ND	0.0045				
Total HxCDDs	ND	0.0051				
Total HpCDDs	ND	0.0031				
Total TCDFs	ND	0.0019				
Total PeCDFs	ND	0.0009	0.0017			
Total HxCDFs	0.0021		0.0041			
Total HpCDFs	ND	0.0016				
ITEF TEQ (ND=0)	0.0002		0.0012			
ITEF TEQ (ND=½)	0.0028		0.0036			

Laboratory Information

Sample ID: WG5240-1

Extraction Date: 01-Feb-01
Analysis Date: 06-Feb-01

Sample Information

Matrix: Aqueous
Weight / Volume: 500 mL
Solids / Lipids: NA
Original pH : 5
Batch ID: WG5240

Filename: a05feb01a_2-2
Retchk: a05feb01a-15
Begin ConCal: a05feb01a-15

Initial Cal: m1613-052699m

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Method 1613 - QC BLANK Results

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Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	1	0.72	72.2	30:29	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	1	0.72	72.1	33:38	1.57	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	1	0.90	90.1	36:05	1.27	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1	0.98	98.2	36:10	1.28	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	1	0.64	64.3	39:15	1.05	
$^{13}C_{12}$-OCDD	2	0.93	46.3	43:11	0.84	
$^{13}C_{12}$-2,3,7,8-TCDF	1	0.89	88.6	29:32	0.82	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1	0.84	84.2	32:51	1.57	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1	0.90	89.5	33:26	1.56	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1	0.91	90.5	35:24	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1	0.97	97.2	35:30	0.49	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1	0.88	87.8	35:58	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1	0.94	94.0	36:41	0.52	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1	0.85	85.4	38:05	0.49	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1	0.76	75.7	39:53	0.48	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.4	0.32	79.5	30:30		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:46	0.81	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:58	0.51	

Laboratory Information

Sample ID: WG5240-1

Extraction Date: 01-Feb-01
Analysis Date: 06-Feb-01

Analyzed by: HMP
Date: 07Feb01

Sample Information

Matrix: Aqueous
Weight / Volume: 500 mL
Solids / Lipids: NA
Original pH : 5
Batch ID: WG5240

Filename: a05feb01a_2-2
Retchk: a05feb01a-15
Begin ConCal: a05feb01a-15

Initial Cal: m1613-052699m

Reviewed by: [illegible]
Date: 2/12/01

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Method 1613 - QC BLANK Results

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Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.101				
1,2,3,7,8-PeCDD	ND	0.0754				
1,2,3,4,7,8-HxCDD	ND	0.113				
1,2,3,6,7,8-HxCDD	ND	0.111				
1,2,3,7,8,9-HxCDD	ND	0.102				
1,2,3,4,6,7,8-HpCDD	EMPC	0.195	0.192	39:16	0.97	
OCDD	1.26			43:12	0.81	A
2,3,7,8--TCDF	ND	0.0562				
1,2,3,7,8-PeCDF	EMPC	0.0480	0.0780	32:51	1.15	
2,3,4,7,8-PeCDF	EMPC	0.0438	0.0740	33:27	1.14	
1,2,3,4,7,8-HxCDF	0.0840			35:25	1.15	A
1,2,3,6,7,8-HxCDF	EMPC	0.0590	0.0780	35:31	0.84	
2,3,4,6,7,8-HxCDF	0.0700			35:58	1.32	A
1,2,3,7,8,9-HxCDF	EMPC	0.0780	0.0960	36:42	1.04	
1,2,3,4,6,7,8-HpCDF	ND	0.0874				
1,2,3,4,7,8,9-HpCDF	ND	0.114				
OCDF	ND	0.228				
Total TCDDs	ND	0.318				
Total PeCDDs	ND	0.382				
Total HxCDDs	ND	0.480				
Total HpCDDs	0.268		0.460			
Total TCDFs	ND	0.0562				
Total PeCDFs	ND	0.0460	0.152			
Total HxCDFs	0.154		0.328			
Total HpCDFs	ND	0.100				
ITEF TEQ (ND=0)	0.0167		0.0769			
ITEF TEQ (ND=½)	0.126		0.166			

Laboratory Information

Sample ID: WG5245-1C

Extraction Date: 02-Feb-01
Analysis Date: 08-Feb-01

Sample Information

Matrix: Soil
Weight / Volume: 10.00 Grams
Solids / Lipids: 100 %
Original pH : NA
Batch ID: WG5245

Filename: a08feb01a-3
Retchk: a08feb01a-1
Begin ConCal: a08feb01a-1

Initial Cal: m1613-052699m

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Method 1613 - QC BLANK Results

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Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.90	95.2	30:28	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.83	91.6	33:38	1.58	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.82	91.1	36:05	1.27	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.37	118.7	36:10	1.27	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.72	86.1	39:16	1.08	
$^{13}C_{12}$-OCDD	4	2.24	55.9	43:12	0.86	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.27	113.7	29:32	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.05	102.7	32:51	1.67	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.17	108.6	33:27	1.65	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.78	89.0	35:24	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.18	109.0	35:31	0.5	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.96	98.2	35:58	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.14	106.8	36:42	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.98	99.0	38:05	0.45	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.19	109.3	39:54	0.46	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.70	87.9	30:30		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:46	0.82	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:58	0.51	

Laboratory Information

Sample ID: WG5245-1C

Extraction Date: 02-Feb-01
Analysis Date: 08-Feb-01

Analyzed by: HMP
Date: 12Feb01

Sample Information

Matrix: Soil
Weight / Volume: 10.00 Grams
Solids / Lipids: 100 %
Original pH : NA
Batch ID: WG5245

Filename: a08feb01a-3
Retchk: a08feb01a-1
Begin ConCal: a08feb01a-1

Initial Cal: m1613-052699m

Reviewed by: [illegible]
Date: 2/12/01

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Analytical Results
for
Ongoing Precision Result (OPR)

Analyte	Spiked	AMT	REC	Range pg/ul		Flag
	pg/ul	pg/ul	%	Lower	Upper	
2,3,7,8-TCDD	10.0	8.88	88.8	6.7	15.8	
1,2,3,7,8-PeCDD	25.0	23.3	93.4	17.5	35.5	
1,2,3,4,7,8-HxCDD	25.0	20.4	81.5	17.5	41.0	
1,2,3,6,7,8-HxCDD	25.0	22.2	88.8	19.0	33.4	
1,2,3,7,8,9-HxCDD	25.0	21.1	84.4	16.0	40.5	
1,2,3,4,6,7,8-HpCDD	25.0	26.9	107	17.5	35.0	
OCDD	50.0	51.1	102	39.0	72.0	
2,3,7,8-TCDF	10.0	8.86	88.6	7.5	15.8	
1,2,3,7,8-PeCDF	25.0	22.6	90.5	20.0	33.5	
2,3,4,7,8-PeCDF	25.0	21.1	84.6	17.0	40.0	
1,2,3,4,7,8-HxCDF	25.0	24.5	98.1	18.0	33.5	
1,2,3,6,7,8-HxCDF	25.0	23.4	93.6	21.0	32.5	
2,3,4,6,7,8-HxCDF	25.0	25.1	100	17.5	39.0	
1,2,3,7,8,9-HxCDF	25.0	21.4	85.7	19.5	32.5	
1,2,3,4,6,7,8-HpCDF	25.0	22.6	90.4	20.5	30.5	
1,2,3,4,7,8,9-HpCDF	25.0	21.5	86.0	19.5	34.5	
OCDF	50.0	56.2	112	37.0	73.0	

= Outside range limits
* = Ion Ratio Out

QC Information

OPR Project No:	WG5217
Extraction Date:	24-Jan-01
Analysis Date:	25-JAN-01
Method:	1613

File Information

OPR Filename :	a25jan01a-4
Retchk:	a25jan01a-1
Begin ConCal:	a25jan01a-1
Initial Cal:	m1613-052699m

Sample Information

Matrix:	Soil

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Analytical Results
for
Ongoing Precision Result (OPR)

Labeled Standard	Spiked pg/ul	AMT pg/ul	REC %	Range pg/ul Lower	Range pg/ul Upper	Flag
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	100	101	101	20	175	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	100	103	103	21	227	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	100	97.4	97.4	21	193	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	100	113	113	25	163	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	100	84.2	84.2	26	166	
$^{13}C_{12}$-OCDD	200	126	63.1	26	397	
$^{13}C_{12}$-2,3,7,8-TCDF	100	116	116	22	152	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	100	106	106	21	192	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	100	115	115	13	328	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	100	95.4	95.4	19	202	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	100	106	106	21	159	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	100	96.2	96.2	22	176	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	100	107	107	17	205	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	100	98.1	98.1	21	158	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	100	105	105	20	186	
Cleanup Standards						
$^{37}C_{14}$-2,3,7,8-TCDD	40.0	37.4	93.5	12.4	76.4	

QC Information

OPR Project No:	WG5217
Extraction Date:	24-Jan-01
Analysis Date:	25-JAN-01
Method:	1613

File Information

OPR Filename :	a25jan01a-4
Retchk:	a25jan01a-1
Begin ConCal:	a25jan01a-1
Initial Cal:	m1613-052699m

Sample Information

Matrix: Soil

Reviewed by: [signature]

Date Reviewed: 1/29/01

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Analytical Results
for
Ongoing Precision Result (OPR)

Analyte	Spiked	AMT	REC	Range pg/ul		Flag
	pg/ul	pg/ul	%	Lower	Upper	
2,3,7,8-TCDD	5.00	5.28	106	3.4	7.9	
1,2,3,7,8-PeCDD	12.5	13.9	111	8.8	17.8	
1,2,3,4,7,8-HxCDD	12.5	12.3	98.3	8.8	20.5	
1,2,3,6,7,8-HxCDD	12.5	13.4	107	9.5	16.7	
1,2,3,7,8,9-HxCDD	12.5	12.2	97.2	8.0	20.3	
1,2,3,4,6,7,8-HpCDD	12.5	15.9	127	8.8	17.5	
OCDD	25.0	29.5	118	19.5	36.0	
2,3,7,8-TCDF	5.00	5.44	109	3.8	7.9	
1,2,3,7,8-PeCDF	12.5	13.8	110	10.0	16.8	
2,3,4,7,8-PeCDF	12.5	12.8	102	8.5	20.0	
1,2,3,4,7,8-HxCDF	12.5	14.4	115	9.0	16.8	
1,2,3,6,7,8-HxCDF	12.5	14.3	114	10.5	16.3	
2,3,4,6,7,8-HxCDF	12.5	15.1	121	8.8	19.5	
1,2,3,7,8,9-HxCDF	12.5	13.0	104	9.8	16.3	
1,2,3,4,6,7,8-HpCDF	12.5	13.5	108	10.3	15.3	
1,2,3,4,7,8,9-HpCDF	12.5	12.8	103	9.8	17.3	
OCDF	25.0	29.2	117	18.5	36.5	

= Outside range limits
* = Ion Ratio Out

QC Information

OPR Project No:	WG5240
Extraction Date:	01-Feb-01
Analysis Date:	6-FEB-01
Method:	1613

Sample Information

Matrix:	Aqueous

File Information

OPR Filename :	a05feb01a_2-1
Retchk:	a05feb01a-15
Begin ConCal:	a05feb01a-15
Initial Cal:	m1613-052699m

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Analytical Results
for
Ongoing Precision Result (OPR)

Labeled Standard	Spiked pg/ul	AMT pg/ul	REC %	Range pg/ul Lower	Range pg/ul Upper	Flag
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	50.0	31.8	63.6	10	87.5	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	50.0	34.2	68.4	10.5	113.5	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	50.0	48.0	95.9	10.5	96.5	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	50.0	51.2	102	12.5	81.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	50.0	33.7	67.4	13	83	
$^{13}C_{12}$-OCDD	100	47.3	47.3	13	198.5	
$^{13}C_{12}$-2,3,7,8-TCDF	50.0	39.2	78.4	11	76	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	50.0	39.2	78.5	10.5	96	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	50.0	42.6	85.2	6.5	164	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	50.0	47.4	94.7	9.5	101	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	50.0	50.2	100	10.5	79.5	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	50.0	47.8	95.6	22	88	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	50.0	47.5	95.1	8.5	102.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	50.0	43.3	86.6	10.5	79	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	50.0	38.6	77.2	10	93	
Cleanup Standards						
$^{37}C_{14}$-2,3,7,8-TCDD	20.0	15.2	75.8	6.2	38.2	

QC Information

OPR Project No:	WG5240
Extraction Date:	01-Feb-01
Analysis Date:	6-FEB-01
Method:	1613

File Information

OPR Filename :	a05feb01a_2-1
Retchk:	a05feb01a-15
Begin ConCal:	a05feb01a-15
Initial Cal:	m1613-052699m

Sample Information

Matrix: Aqueous

Reviewed by: _____ Date Reviewed: 2/7/01

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Analytical Results
for
Ongoing Precision Result (OPR)

Analyte	Spiked pg/ul	AMT pg/ul	REC %	Range pg/ul Lower	Range pg/ul Upper	Flag
2,3,7,8-TCDD	10.0	9.43	94.3	6.7	15.8	
1,2,3,7,8-PeCDD	25.0	23.7	94.9	17.5	35.5	
1,2,3,4,7,8-HxCDD	25.0	21.1	84.5	17.5	41.0	
1,2,3,6,7,8-HxCDD	25.0	23.2	92.7	19.0	33.4	
1,2,3,7,8,9-HxCDD	25.0	21.9	87.6	16.0	40.5	
1,2,3,4,6,7,8-HpCDD	25.0	27.7	111	17.5	35.0	
OCDD	50.0	54.9	110	39.0	72.0	
2,3,7,8-TCDF	10.0	9.53	95.3	7.5	15.8	
1,2,3,7,8-PeCDF	25.0	24.7	99.0	20.0	33.5	
2,3,4,7,8-PeCDF	25.0	23.5	93.9	17.0	40.0	
1,2,3,4,7,8-HxCDF	25.0	25.1	100	18.0	33.5	
1,2,3,6,7,8-HxCDF	25.0	23.5	93.8	21.0	32.5	
2,3,4,6,7,8-HxCDF	25.0	25.5	102	17.5	39.0	
1,2,3,7,8,9-HxCDF	25.0	22.0	88.1	19.5	32.5	
1,2,3,4,6,7,8-HpCDF	25.0	23.4	93.8	20.5	30.5	
1,2,3,4,7,8,9-HpCDF	25.0	21.6	86.2	19.5	34.5	
OCDF	50.0	63.7	127	37.0	73.0	

= Outside range limits
* = Ion Ratio Out

QC Information

OPR Project No:	WG5245C
Extraction Date:	02-Feb-01
Analysis Date:	8-FEB-01
Method:	1613

File Information

OPR Filename :	a08feb01a-2
Retchk:	a08feb01a-1
Begin ConCal:	a08feb01a-1
Initial Cal:	m1613-052699m

Sample Information

Matrix: Soil

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Analytical Results
for
Ongoing Precision Result (OPR)

Labeled Standard	Spiked pg/ul	AMT pg/ul	REC %	Range pg/ul Lower	Range pg/ul Upper	Flag
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	100	89.1	89.1	20	175	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	100	86.7	86.7	21	227	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	100	87.7	87.7	21	193	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	100	119	119	25	163	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	100	83.3	83.3	26	166	
$^{13}C_{12}$-OCDD	200	103	51.5	26	397	
$^{13}C_{12}$-2,3,7,8-TCDF	100	107	107	22	152	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	100	98.3	98.3	21	192	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	100	105	105	13	328	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	100	87.2	87.2	19	202	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	100	114	114	21	159	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	100	97.7	97.7	22	176	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	100	102	102	17	205	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	100	99.2	99.2	21	158	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	100	106	106	20	186	
Cleanup Standards						
$^{37}C_{14}$-2,3,7,8-TCDD	40.0	34.1	85.1	12.4	76.4	

QC Information

OPR Project No: WG5245C
Extraction Date: 02-Feb-01
Analysis Date: 8-FEB-01
Method: 1613

File Information

OPR Filename : a08feb01a-2
Retchk: a08feb01a-1
Begin ConCal: a08feb01a-1
Initial Cal: m1613-052699m

Sample Information

Matrix: Soil

Reviewed by: [signature]

Date Reviewed: 2/12/01

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PARADIGM ANALYTICAL LABORATORIES, INC.
2627 Northchase Parkway SE, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC#

Contact: Greg Kuntz
Phone: 803-796-6240
P.O. No.:
Quote #:

Client: Southern Wood Piedmont
Address: P.O. Box 5447
Address: Spartanburg, SC
Address: 29304

Date: 1/23/01
T.A.T. (Std 21): Standard
Project ID: SWP-Wilmington
Job Number: 979007.A0-27

Report To: Sandra Watson
P.O. Box 5447
Spartanburg, SC 29304
Invoice To: Same

Report: Full ☐ Summary ☒
EDD: No ☐ Yes ☒

G440-3

Sample ID	Date	Time	Matrix	Method: 1613 2378-TCDD	1613 2378-TCDD/F	1613 Tetra-Octa	8290 2378-TCDD	8290 2378-TCDD/F	8290 Tetra-Octa	8280 2378-TCDD	8280 2378-TCDD/F	8280 Appendix IX	8280 Tetra-Octa	Other	Comments
SD-30-Dup *	1/23/01	9:30	Solid			X									* No SWP Log # for SD-30-Dup
SD-29 SWP Log# 17394		10:00													because it is a duplicate of
SD-8 17395		10:25													SD-30 collected on 1/10/01 at
SS-12 17396		10:45													16:50 SWP Log # 17345
SS-13 17397		11:10													
SS-1 17398		12:15													** Wilmington Site Specific
SD-20 17399		12:35													Dioxin-Furan Constituent List
SD-28 17400		13:05													
SD-27 17401		13:30													
SD-26 17402		14:20													

Relinquished By	Date	Time	Received By	Date	Time	Temp	Sampled	Airbill #
Gregory B. Kuntz	1/23/01	17:00	[illegible]	1/23/01	5:10	on ice		RECEIVED
								FEB 13 2001

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SOUTHERN WOOD PIEDMONT

PARADIGM ANALYTICAL LABORATORIES, INC.
2627 Northchase Parkway SE, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC#

Page 1 of 2

Contact: Greg Kurtz
Phone: 803-796-6240
P.O. No.:
Quote #:

Client: Southern Wood Piedmont
Address: P.O. Box 5447
Address: Spartanburg, SC
Address: 29304

Date: 1/23/01
T.A.T. (Std 21): Standard
Project ID: SWP-Wilmington
Job Number: 979007.A0-27

Report To: Sandra Watson
P.O. Box 5447
Spartanburg, SC 29304
Invoice To: Same

Report: Full ☐ Summary ☒ G440-3
EDD: No ☐ Yes ☒

Sample ID	Date	Time	Matrix	Method 1613 2378-TCDD	1613 2378-TCDD/F	1613 Tetra-Octa	8290 2378-TCDD	8290 2378-TCDD/F	8290 Tetra-Octa	8280 2378-TCDD	8280 2378-TCDD/F	8280 Appendix IX	8280 Tetra-Octa	Other	Comments
Equip 12301 SWP Log#17403	1/23/01	16:30	Liquid			X									Wilmington Site Specific Dioxin-Furan Constituent List

Relinquished By	Date	Time	Received By	Date	Time	Temp	Sampled	Airbill #
Gregory B. Kurtz	1/23/01	17:00	[illegible]	1/23/01	5:10	on ice		

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ORIGINAL

SJW
G. Kurtz

PARADIGM ANALYTICAL LABORATORIES, INC.
2627 Northchase Parkway S.E.
Wilmington, North Carolina 28405
(910) 350-1903
Fax (910) 350-1557

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FEB 26 2001

Wednesday, February 14, 2001

Ms. Sandra Watson
Southern Wood Piedmont
591 Springfield Road
Spartanburg, SC 29304

Dear Ms. Watson:

Enclosed are the final results for the samples received by Paradigm Analytical Laboratories, Inc. on January 24, 2001 under your Project Name "SWP-Wilmington". The samples were analyzed by Method 8290 following Paradigm's Standard Operating Procedures. Please see Page 2 of this report for the case narrative.

A summary data package has been provided.

No. of Samples Received:	**11 Solid; 1 Liquid**
Your Project Number:	**979007.AO-27**
PAL Project No.:	**G440-4**

We appreciate your business and look forward to working with you again. Please contact me if you have questions or need additional technical support.

Sincerely,

Christopher K. Cornwell

Christopher K. Cornwell
Assistant Director

PARADIGM ANALYTICAL LABORATORIES, INC.

Case Narrative
Paradigm Project G440-4

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Client Project No.:	979007.AO-27
Client Project Name:	SWP-Wilmington
No. of Samples Received:	11 Solid; 1 Liquid
No. of Samples Analyzed:	12
Method:	1613
No. of LMBs:	2
No. of OPRs:	2

- The soil samples were re-extracted due to low extraction standard recoveries in the original analyses. The Paradigm Sample IDs have been appended with an "R".
- The extracts for samples 13560R, 13566R, 13567R, 13569R, and 13570R underwent an additional cleanup step to reduce the level of interferences. The Extraction Standard recoveries do not reflect any loss that may have occurred during the final cleanup step. The Paradigm Sample IDs are appended with a "C".
- Results for WG5250 are submitted for the extracts both before and after additional cleanup.
- Dilution of several of the extracts was required to improve the chromatography and the quality of the data for some homologues. The data is qualified with a "D*" following the Paradigm Sample ID, where the "*" indicates the dilution level. There is no need to adjust the reported concentrations.
- Please note that in cases where data are reported from two separate analyses, the partial TEQs from the two analyses must be combined to obtain the total sample TEQ.

W.M. Larkins
Technical Director

February 14, 2001

Case Narrative
Paradigm Project G440-4

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Client Project No.:	979007.AO-27
Client Project Name:	SWP-Wilmington
No. of Samples Received:	11 Solid; 1 Liquid
No. of Samples Analyzed:	12
Method:	1613
No. of LMBs:	2
No. of OPRs:	2

- The soil samples were re-extracted due to low extraction standard recoveries in the original analyses. The Paradigm Sample IDs have been appended with an "R".
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- Please note that in cases where data are reported from two separate analyses, the partial TEQs from the two analyses must be combined to obtain the total sample TEQ.

W.M. Larkins
Technical Director

February 14, 2001

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Table 1: Toxic Equivalency Factors

Analyte	World Health Organization	International-89	MADEP
2,3,7,8-TCDD	1	1	1
1,2,3,7,8-PeCDD	1	0.5	0.5
1,2,3,4,7,8-HxCDD	0.1	0.1	0.1
1,2,3,6,7,8-HxCDD	0.1	0.1	0.1
1,2,3,7,8,9-HxCDD	0.1	0.1	0.1
1,2,3,4,6,7,8-HpCDD	0.01	0.01	0.1
OCDD	0.0001	0.001	0.001
2,3,7,8-TCDF	0.1	0.1	0.1
1,2,3,7,8-PeCDF	0.05	0.05	0.5
2,3,4,7,8-PeCDF	0.5	0.5	0.5
1,2,3,4,7,8-HxCDF	0.1	0.1	0.1
1,2,3,6,7,8-HxCDF	0.1	0.1	0.1
2,3,4,6,7,8-HxCDF	0.1	0.1	0.1
1,2,3,7,8,9-HxCDF	0.1	0.1	0.1
1,2,3,4,6,7,8-HpCDF	0.01	0.01	0.1
1,2,3,4,7,8,9-HpCDF	0.01	0.01	0.1
OCDF	0.0001	0.001	0.001

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Table 2. List of Qualifiers

A	Amount detected is less than the Calibration Limit
B	Analyte was detected in the LMB at a level above the RL or EDL.
E	Amount detected is over the Method Calibration Limit
DPE	Denotes the presence of possible polychlorinated diphenylethers
EDL	"Estimated Detection Limit"
EMPC	"Estimated Maximum Possible Concentration"
ppt	Parts-per-trillion (pg/g; ng/L)
Q	Indicates the presence of quantitative interferences. They generally result in an underestimation of the affected total homologue groups.
V	Recovery is lower than 40%. The data has been validated based on a favorable signal-to-noise and detection limit.
#	Outside recovery limits
*	See cover letter

Method 1613

SS-7 SWP Log #17404

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	EMPC	0.553	1.83	30:30	0.53	
1,2,3,7,8-PeCDD	10.6			33:38	1.63	A
1,2,3,4,7,8-HxCDD	27.1			36:06	1.33	
1,2,3,6,7,8-HxCDD	326			36:11	1.17	
1,2,3,7,8,9-HxCDD	64.5			36:25	1.14	
2,3,7,8--TCDF	1.83			29:33	0.69	A
1,2,3,7,8-PeCDF	7.51			32:52	1.68	A
2,3,4,7,8-PeCDF	21.7			33:27	1.55	
1,2,3,4,7,8-HxCDF	85.0			35:25	1.15	
1,2,3,6,7,8-HxCDF	27.4			35:30	1.09	
2,3,4,6,7,8-HxCDF	50.1			35:59	1.17	
1,2,3,7,8,9-HxCDF	27.4			36:43	1.25	
1,2,3,4,6,7,8-HpCDF	5740			38:05	1.02	
1,2,3,4,7,8,9-HpCDF	111			39:53	1.09	
OCDF	10800			43:30	0.84	
Total TCDDs	48.9		61.6			
Total PeCDDs	240		266			Q
Total HxCDDs	5180					
Total TCDFs	30.8					
Total PeCDFs	173		176			Q
Total HxCDFs	3320					
Total HpCDFs	15300					
ITEF TEQ (ND=0)	147		149			*
ITEF TEQ (ND=½)	147		149			*

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SS-7 SWP Log #17404		

Laboratory Information

Project ID:	G440-4		
Sample ID:	13560RC		
Collection Date/Time:	24-Jan-01	08:15	
Receipt Date:	24-Jan-01		
Extraction Date:	05-Feb-01		
Analysis Date:	12-Feb-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	02.84	Grams
Solids / Lipids:	56.2	%
Original pH :	NA	
Batch ID:	WG5250	
Filename:	a12feb01a-6	
Retchk:	a12feb01a-1	
Begin ConCal:	a12feb01a-1	
Initial Cal:	m1613-052699m	

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Method 1613

SS-7 SWP Log #17404

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	2.77	138.6	30:28	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	2.61	130.4	33:38	1.57	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.79	89.3	36:05	1.18	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.02	101.2	36:11	1.16	
$^{13}C_{12}$-OCDD	4	4.53	113.3	43:14	0.97	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.94	147.2	29:32	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	3.18	158.8	32:51	1.53	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	3.18	159.0	33:27	1.56	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.95	97.3	35:24	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.06	103.1	35:30	0.49	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.90	95.0	35:58	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.22	111.2	36:42	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.09	104.6	38:05	0.48	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.28	113.9	39:53	0.47	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	1.10	137.4	30:30		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:46	0.81	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:58	0.51	

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-7 SWP Log #17404

Laboratory Information

Project ID: G440-4
Sample ID: 13560RC

Collection Date/Time: 24-Jan-01 08:15
Receipt Date: 24-Jan-01
Extraction Date: 05-Feb-01
Analysis Date: 12-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 02.84 Grams
Solids / Lipids: 56.2 %
Original pH : NA
Batch ID: WG5250

Filename: a12feb01a-6
Retchk: a12feb01a-1
Begin ConCal: a12feb01a-1

Initial Cal: m1613-052699m

Analyzed by: HMD
Date: 14Feb01

Reviewed by: [illegible]
Date: 7/14/01

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Method 1613

SS-7 SWP Log #17404

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
1,2,3,4,6,7,8-HpCDD	19400			39:16	1.02	
OCDD	217000			43:13	0.88	
Total HpCDDs	118000					
ITEF TEQ (ND=0)	411		411			*
ITEF TEQ (ND=½)	411		411			*

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SS-7 SWP Log #17404		

Laboratory Information

Project ID:	G440-4		
Sample ID:	13560RC	D10	
Collection Date/Time:	24-Jan-01	08:15	
Receipt Date:	24-Jan-01		
Extraction Date:	05-Feb-01		
Analysis Date:	14-Feb-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	02.84	Grams
Solids / Lipids:	56.2	%
Original pH :	NA	
Batch ID:	WG5250	
Filename:	a13feb01a_2-1	
Retchk:	a13feb01a-15	
Begin ConCal:	a13feb01a-15	
Initial Cal:	m1613-052699m	

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Method 1613

SS-7 SWP Log #17404

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	2.01	100.4	39:16	1.04	
$^{13}C_{12}$-OCDD	4	4.09	102.3	43:11	0.93	
Injection Standards						
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:58	0.5	

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-7 SWP Log #17404

Laboratory Information

Project ID: G440-4
Sample ID: 13560RC D10

Collection Date/Time: 24-Jan-01 08:15
Receipt Date: 24-Jan-01
Extraction Date: 05-Feb-01
Analysis Date: 14-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 02.84 Grams
Solids / Lipids: 56.2 %
Original pH : NA
Batch ID: WG5250

Filename: a13feb01a_2-1
Retchk: a13feb01a-15
Begin ConCal: a13feb01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 14Feb01

Reviewed by: [illegible]
Date: 2/14/01

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Method 1613

SS-2 SWP Log #17405

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	EMPC	0.976	1.69	30:32	0.45	
1,2,3,7,8-PeCDD	8.78			33:38	1.58	A
1,2,3,4,7,8-HxCDD	18.9			36:06	1.16	A
1,2,3,6,7,8-HxCDD	122			36:11	1.2	
1,2,3,7,8,9-HxCDD	39.2			36:24	1.12	
1,2,3,4,6,7,8-HpCDD	6020			39:16	1.03	
OCDD	70400			43:13	0.87	E
2,3,7,8--TCDF	3.51			29:34	0.77	A
1,2,3,7,8-PeCDF	4.69			32:51	1.61	A
2,3,4,7,8-PeCDF	64.8			33:28	1.5	
1,2,3,4,7,8-HxCDF	35.7			35:25	1.14	
1,2,3,6,7,8-HxCDF	27.4			35:31	1.22	
2,3,4,6,7,8-HxCDF	58.6			35:59	1.16	
1,2,3,7,8,9-HxCDF	12.1			36:44	1.13	A
1,2,3,4,6,7,8-HpCDF	1480			38:05	1.08	
1,2,3,4,7,8,9-HpCDF	36.8			39:53	1.07	
OCDF	3030			43:30	0.85	
Total TCDDs	10.5		16.3			
Total PeCDDs	91.8		128			
Total HxCDDs	1690					
Total HpCDDs	31000					
Total TCDFs	201		207			DPE
Total PeCDFs	686					
Total HxCDFs	1360					
Total HpCDFs	3790		3800			
ITEF TEQ (ND=0)	218		219			
ITEF TEQ (ND=½)	218		219			

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-2 SWP Log #17405

Laboratory Information

Project ID: G440-4
Sample ID: 13561R

Collection Date/Time: 24-Jan-01 08:45
Receipt Date: 24-Jan-01
Extraction Date: 05-Feb-01
Analysis Date: 09-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 02.04 Grams
Solids / Lipids: 55.6 %
Original pH : NA
Batch ID: WG5250

Filename: a08feb01a_2-4
Retchk: a08feb01a-15
Begin ConCal: a08feb01a-15

Initial Cal: m1613-052699m

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SOUTHERN WOOD PIEDMONT

Method 1613

SS-2 SWP Log #17405

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.82	91.1	30:29	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.79	89.4	33:38	1.55	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.90	94.9	36:06	1.17	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.05	102.6	36:11	1.21	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.89	94.3	39:16	1.04	
$^{13}C_{12}$-OCDD	4	4.13	103.4	43:12	0.92	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.09	104.4	29:33	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.01	100.7	32:51	1.62	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.08	103.9	33:27	1.58	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.86	93.1	35:24	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.90	95.0	35:30	0.51	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.80	90.2	35:58	0.5	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.08	104.2	36:41	0.49	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.06	103.0	38:05	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.24	111.9	39:53	0.47	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.71	88.8	30:31		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:46	0.8	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:58	0.5	

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-2 SWP Log #17405

Laboratory Information

Project ID: G440-4
Sample ID: 13561R

Collection Date/Time: 24-Jan-01 08:45
Receipt Date: 24-Jan-01
Extraction Date: 05-Feb-01
Analysis Date: 09-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 02.04 Grams
Solids / Lipids: 55.6 %
Original pH : NA
Batch ID: WG5250

Filename: a08feb01a_2-4
Retchk: a08feb01a-15
Begin ConCal: a08feb01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 12Feb01

Reviewed by: CB
Date: 2/12/01

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Method 1613

SD-22 SWP Log #17406

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.442				
1,2,3,7,8-PeCDD	0.547			33:38	1.74	A
1,2,3,4,7,8-HxCDD	EMPC	0.422	0.929	36:06	0.91	
1,2,3,6,7,8-HxCDD	1.88			36:11	1.24	A
1,2,3,7,8,9-HxCDD	EMPC	0.394	1.19	36:25	0.99	
1,2,3,4,6,7,8-HpCDD	61.3			39:17	1.09	
OCDD	713			43:12	0.87	
2,3,7,8--TCDF	ND	0.296				
1,2,3,7,8-PeCDF	EMPC	0.249	0.328	32:51	1.22	
2,3,4,7,8-PeCDF	1.43			33:28	1.5	A
1,2,3,4,7,8-HxCDF	0.710			35:26	1.21	A
1,2,3,6,7,8-HxCDF	0.842			35:31	1.2	A
2,3,4,6,7,8-HxCDF	1.58			35:58	1.13	A
1,2,3,7,8,9-HxCDF	ND	0.333				
1,2,3,4,6,7,8-HpCDF	9.67			38:06	1.06	A
1,2,3,4,7,8,9-HpCDF	EMPC	0.365	0.536	39:53	1.26	
OCDF	23.2			43:29	0.83	A
Total TCDDs	ND	1.78				
Total PeCDDs	2.28					
Total HxCDDs	16.4		19.4			
Total HpCDDs	183					
Total TCDFs	3.87					
Total PeCDFs	15.1		15.7			
Total HxCDFs	17.0		18.6			
Total HpCDFs	25.1		25.7			
ITEF TEQ (ND=0)	2.94		3.17			
ITEF TEQ (ND=½)	3.24		3.42			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-22 SWP Log #17406		

Laboratory Information

Project ID:	G440-4		
Sample ID:	13562R		
Collection Date/Time:	24-Jan-01	09:25	
Receipt Date:	24-Jan-01		
Extraction Date:	05-Feb-01		
Analysis Date:	09-Feb-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	02.45	Grams
Solids / Lipids:	74.7	%
Original pH :	NA	
Batch ID:	WG5250	
Filename:	a08feb01a_2-5	
Retchk:	a08feb01a-15	
Begin ConCal:	a08feb01a-15	
Initial Cal:	m1613-052699m	

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Method 1613

SD-22 SWP Log #17406

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.96	98.0	30:29	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.90	95.0	33:38	1.55	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.96	97.8	36:06	1.23	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.22	111.1	36:11	1.22	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.88	93.8	39:15	1.07	
$^{13}C_{12}$-OCDD	4	3.57	89.2	43:11	0.89	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.23	111.4	29:33	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.15	107.3	32:51	1.6	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.20	110.1	33:26	1.57	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.86	93.2	35:24	0.51	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.99	99.6	35:30	0.5	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.89	94.5	35:58	0.52	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.18	109.2	36:41	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.06	103.0	38:05	0.47	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.37	118.3	39:53	0.48	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.74	92.0	30:30		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:46	0.8	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:58	0.52	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-22 SWP Log #17406

Laboratory Information

Project ID: G440-4
Sample ID: 13562R

Collection Date/Time: 24-Jan-01 09:25
Receipt Date: 24-Jan-01
Extraction Date: 05-Feb-01
Analysis Date: 09-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 02.45 Grams
Solids / Lipids: 74.7 %
Original pH : NA
Batch ID: WG5250

Filename: a08feb01a_2-5
Retchk: a08feb01a-15
Begin ConCal: a08feb01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 13Feb01

Reviewed by: [illegible]
Date: 2/13/01

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Method 1613

SD-21 SWP Log #17407

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8–TCDD	ND	0.661				
1,2,3,7,8-PeCDD	ND	0.552				
1,2,3,4,7,8-HxCDD	0.921			36:06	1.33	A
1,2,3,6,7,8-HxCDD	1.39			36:11	1.28	A
1,2,3,7,8,9-HxCDD	EMPC	0.516	1.16	36:24	1.52	
1,2,3,4,6,7,8-HpCDD	42.5			39:16	1.02	
OCDD	496			43:12	0.86	
2,3,7,8–TCDF	ND	0.388				
1,2,3,7,8-PeCDF	0.476			32:51	1.52	A
2,3,4,7,8-PeCDF	EMPC	0.235	1.13	33:28	1.2	
1,2,3,4,7,8-HxCDF	0.932			35:25	1.20	A
1,2,3,6,7,8-HxCDF	0.932			35:31	1.22	A
2,3,4,6,7,8-HxCDF	1.07			35:58	1.15	A
1,2,3,7,8,9-HxCDF	ND	0.437				
1,2,3,4,6,7,8-HpCDF	4.88			38:05	1.17	A
1,2,3,4,7,8,9-HpCDF	ND	0.579				
OCDF	11.1			43:28	0.83	A
Total TCDDs	ND	1.67				
Total PeCDDs	ND	2.26				
Total HxCDDs	6.63		12.5			
Total HpCDDs	97.8					
Total TCDFs	ND	0.388	0.942			
Total PeCDFs	7.15		8.28			
Total HxCDFs	11.3					
Total HpCDFs	4.88		12.0			
ITEF TEQ (ND=0)	1.53		2.21			
ITEF TEQ (ND=½)	2.13		2.72			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-21 SWP Log #17407		
Laboratory Information			
Project ID:	G440-4		
Sample ID:	13563R		
Collection Date/Time:	24-Jan-01	10:00	
Receipt Date:	24-Jan-01		
Extraction Date:	05-Feb-01		
Analysis Date:	09-Feb-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	02.57	Grams
Solids / Lipids:	73.5	%
Original pH :	NA	
Batch ID:	WG5250	
Filename:	a08feb01a_2-6	
Retchk:	a08feb01a-15	
Begin ConCal:	a08feb01a-15	
Initial Cal:	m1613-052699m	

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Method 1613

SD-21 SWP Log #17407

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.38	68.8	30:29	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.35	67.6	33:38	1.57	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.39	69.4	36:06	1.18	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	1.55	77.5	36:10	1.17	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.35	67.4	39:15	1.08	
$^{13}C_{12}$-OCDD	4	2.45	61.2	43:11	0.88	
$^{13}C_{12}$-2,3,7,8-TCDF	2	1.58	79.0	29:33	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.51	75.6	32:51	1.62	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	1.56	78.1	33:26	1.62	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.35	67.6	35:24	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.43	71.4	35:30	0.49	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.34	66.9	35:57	0.49	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	1.60	80.0	36:41	0.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.48	74.2	38:05	0.47	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	1.65	82.7	39:53	0.47	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.53	65.8	30:30		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:46	0.8	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:57	0.49	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-21 SWP Log #17407

Laboratory Information

Project ID: G440-4
Sample ID: 13563R

Collection Date/Time: 24-Jan-01 10:00
Receipt Date: 24-Jan-01
Extraction Date: 05-Feb-01
Analysis Date: 09-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 02.57 Grams
Solids / Lipids: 73.5 %
Original pH : NA
Batch ID: WG5250

Filename: a08feb01a_2-6
Retchk: a08feb01a-15
Begin ConCal: a08feb01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 13Feb01

Reviewed by: [illegible]
Date: 2/13/01

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Method 1613

SD-03 SWP Log #17408

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.687				
1,2,3,7,8-PeCDD	EMPC	0.479	0.900	33:38	1.17	
1,2,3,4,7,8-HxCDD	1.11			36:05	1.16	A
1,2,3,6,7,8-HxCDD	1.97			36:11	1.19	A
1,2,3,7,8,9-HxCDD	1.50			36:24	1.29	A
1,2,3,4,6,7,8-HpCDD	72.6			39:17	1.07	
OCDD	793			43:13	0.89	
2,3,7,8--TCDF	ND	0.490				
1,2,3,7,8-PeCDF	ND	0.454				
2,3,4,7,8-PeCDF	1.46			33:27	1.57	A
1,2,3,4,7,8-HxCDF	0.900			35:25	1.31	A
1,2,3,6,7,8-HxCDF	0.786			35:30	1.19	A
2,3,4,6,7,8-HxCDF	1.32			35:58	1.24	A
1,2,3,7,8,9-HxCDF	ND	0.994				
1,2,3,4,6,7,8-HpCDF	7.44			38:05	1.19	A
1,2,3,4,7,8,9-HpCDF	ND	1.21				
OCDF	25.8			43:29	0.85	A
Total TCDDs	ND	1.87				Q
Total PeCDDs	0.638		2.42			
Total HxCDDs	20.5					
Total HpCDDs	177					
Total TCDFs	2.81		3.86			Q
Total PeCDFs	14.3					Q
Total HxCDFs	14.7		16.1			
Total HpCDFs	21.7					
ITEF TEQ (ND=0)	3.11		3.56			
ITEF TEQ (ND=½)	3.66		3.99			

Client Information

Project Name:	SWP-Wilmington
Sample ID:	SD-03 SWP Log #17408

Laboratory Information

Project ID:	G440-4	
Sample ID:	13564R	
Collection Date/Time:	24-Jan-01	10:20
Receipt Date:	24-Jan-01	
Extraction Date:	05-Feb-01	
Analysis Date:	08-Feb-01	

Sample Information

Matrix:	Solid	
Weight / Volume:	02.38	Grams
Solids / Lipids:	73.7	%
Original pH :	NA	
Batch ID:	WG5250	
Filename:	a08feb01a-6	
Retchk:	a08feb01a-1	
Begin ConCal:	a08feb01a-1	
Initial Cal:	m1613-052699m	

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Method 1613

SD-03 SWP Log #17408

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.45	72.6	30:28	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.39	69.7	33:38	1.56	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.34	67.2	36:05	1.22	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	1.69	84.6	36:10	1.18	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.33	66.6	39:16	1.08	
$^{13}C_{12}$-OCDD	4	2.43	60.9	43:12	0.89	
$^{13}C_{12}$-2,3,7,8-TCDF	2	1.73	86.4	29:32	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.62	81.0	32:51	1.65	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	1.67	83.7	33:27	1.62	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.37	68.3	35:24	0.52	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.55	77.6	35:30	0.47	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.45	72.6	35:58	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	1.65	82.5	36:41	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.52	76.0	38:05	0.47	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	1.67	83.3	39:53	0.47	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.63	79.1	30:30		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:46	0.82	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:58	0.51	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-03 SWP Log #17408

Laboratory Information

Project ID: G440-4
Sample ID: 13564R

Collection Date/Time: 24-Jan-01 10:20
Receipt Date: 24-Jan-01
Extraction Date: 05-Feb-01
Analysis Date: 08-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 02.38 Grams
Solids / Lipids: 73.7 %
Original pH: NA
Batch ID: WG5250

Filename: a08feb01a-6
Retchk: a08feb01a-1
Begin ConCal: a08feb01a-1

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 12Feb01

Reviewed by: [illegible]
Date: 2/12/01

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Method 1613

SS-3 SWP Log #17409

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	EMPC	0.505	0.976	30:30	0.42	
1,2,3,7,8-PeCDD	2.08			33:38	1.38	A
1,2,3,4,7,8-HxCDD	3.44			36:05	1.38	A
1,2,3,6,7,8-HxCDD	8.49			36:10	1.13	A
1,2,3,7,8,9-HxCDD	6.15			36:24	1.21	A
1,2,3,4,6,7,8-HpCDD	241			39:16	1.06	
OCDD	2050			43:13	0.87	
2,3,7,8--TCDF	EMPC	0.421	0.910	29:34	0.9	
1,2,3,7,8-PeCDF	0.963			32:51	1.58	A
2,3,4,7,8-PeCDF	13.4			33:27	1.52	A
1,2,3,4,7,8-HxCDF	3.22			35:25	1.13	A
1,2,3,6,7,8-HxCDF	5.31			35:31	1.12	A
2,3,4,6,7,8-HxCDF	11.6			35:58	1.20	A
1,2,3,7,8,9-HxCDF	1.33			36:43	1.26	A
1,2,3,4,6,7,8-HpCDF	70.7			38:05	1.09	
1,2,3,4,7,8,9-HpCDF	4.43			39:54	1.11	A
OCDF	144			43:29	0.86	
Total TCDDs	5.64		7.36			
Total PeCDDs	24.5		27.0			
Total HxCDDs	92.5		95.1			
Total HpCDDs	555					
Total TCDFs	47.5		50.3			
Total PeCDFs	153		154			
Total HxCDFs	148					
Total HpCDFs	162					
ITEF TEQ (ND=0)	17.1		18.2			
ITEF TEQ (ND=½)	17.4		18.2			

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-3 SWP Log #17409

Laboratory Information

Project ID: G440-4
Sample ID: 13565R

Collection Date/Time: 24-Jan-01 10:45
Receipt Date: 24-Jan-01
Extraction Date: 05-Feb-01
Analysis Date: 08-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 02.47 Grams
Solids / Lipids: 61.4 %
Original pH : NA
Batch ID: WG5250

Filename: a08feb01a-7
Retchk: a08feb01a-1
Begin ConCal: a08feb01a-1

Initial Cal: m1613-052699m

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SOUTHERN WOOD PIEDMONT

Method 1613

SS-3 SWP Log #17409

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.90	94.8	30:28	0.82	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.84	91.9	33:38	1.55	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.88	94.1	36:05	1.26	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.28	114.1	36:10	1.27	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.80	90.0	39:16	1.08	
$^{13}C_{12}$-OCDD	4	3.29	82.2	43:12	0.87	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.25	112.3	29:32	0.82	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.13	106.4	32:51	1.61	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.20	109.8	33:27	1.63	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.84	92.1	35:24	0.51	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.07	103.5	35:30	0.5	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.92	96.0	35:58	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.19	109.5	36:42	0.52	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.06	103.0	38:05	0.47	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.24	112.1	39:53	0.47	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.71	89.0	30:30		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:46	0.81	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:58	0.51	

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-3 SWP Log #17409

Laboratory Information

Project ID: G440-4
Sample ID: 13565R

Collection Date/Time: 24-Jan-01 10:45
Receipt Date: 24-Jan-01
Extraction Date: 05-Feb-01
Analysis Date: 08-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 02.47 Grams
Solids / Lipids: 61.4 %
Original pH : NA
Batch ID: WG5250

Filename: a08feb01a-7
Retchk: a08feb01a-1
Begin ConCal: a08feb01a-1

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 12Feb01

Reviewed by: [illegible]
Date: 2/12/01

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Method 1613

SS-4 SWP Log #17410

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	1.11				
1,2,3,7,8-PeCDD	4.03			33:38	1.38	A
1,2,3,4,7,8-HxCDD	4.71			36:05	1.17	A
1,2,3,6,7,8-HxCDD	148			36:11	1.19	
1,2,3,7,8,9-HxCDD	55.1			36:25	1.26	
1,2,3,4,6,7,8-HpCDD	1570			39:17	1.03	
OCDD	12500			43:13	0.87	
2,3,7,8--TCDF	ND	0.759				
1,2,3,7,8-PeCDF	10.7			32:52	1.38	A
2,3,4,7,8-PeCDF	20.5			33:27	1.59	A
1,2,3,4,7,8-HxCDF	158			35:25	1.15	
1,2,3,6,7,8-HxCDF	72.1			35:31	1.23	
2,3,4,6,7,8-HxCDF	70.8			35:58	1.12	
1,2,3,7,8,9-HxCDF	58.8			36:43	1.26	
1,2,3,4,6,7,8-HpCDF	15600			38:05	1.04	
1,2,3,4,7,8,9-HpCDF	123			39:53	1.08	
OCDF	13100			43:29	0.84	
Total TCDDs	14.5					
Total PeCDDs	110		112			Q
Total HxCDDs	1440		1480			
Total HpCDDs	6090					
Total TCDFs	4.22		7.10			
Total PeCDFs	167		173			
Total HxCDFs	6530					
Total HpCDFs	28400					
ITEF TEQ (ND=0)	268		268			
ITEF TEQ (ND=½)	269		269			

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-4 SWP Log #17410

Laboratory Information

Project ID: G440-4
Sample ID: 13566RC

Collection Date/Time: 24-Jan-01 11:10
Receipt Date: 24-Jan-01
Extraction Date: 05-Feb-01
Analysis Date: 12-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 02.05 Grams
Solids / Lipids: 45.8 %
Original pH : NA
Batch ID: WG5250

Filename: a12feb01a-7
Retchk: a12feb01a-1
Begin ConCal: a12feb01a-1

Initial Cal: m1613-052699m

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Method 1613

SS-4 SWP Log #17410

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	2.27	113.6	30:29	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	2.14	107.1	33:38	1.55	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.72	86.2	36:05	1.2	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.17	108.7	36:10	1.21	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.70	85.1	39:16	1.03	
$^{13}C_{12}$-OCDD	4	2.70	67.4	43:12	0.86	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.57	128.4	29:32	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.59	129.7	32:51	1.57	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.59	129.3	33:27	1.55	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.87	93.4	35:24	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.03	101.5	35:31	0.5	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.87	93.3	35:58	0.5	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.18	109.2	36:42	0.52	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.12	106.2	38:05	0.48	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.14	107.1	39:53	0.48	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.91	113.8	30:30		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:46	0.81	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:58	0.5	

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-4 SWP Log #17410

Laboratory Information

Project ID: G440-4
Sample ID: 13566RC

Collection Date/Time: 24-Jan-01 11:10
Receipt Date: 24-Jan-01
Extraction Date: 05-Feb-01
Analysis Date: 12-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 02.05 Grams
Solids / Lipids: 45.8 %
Original pH : NA
Batch ID: WG5250

Filename: a12feb01a-7
Retchk: a12feb01a-1
Begin ConCal: a12feb01a-1

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 14Feb01

Reviewed by: [illegible]
Date: 2/14/01

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Method 1613

SS-6 SWP Log #17411

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	7.53			30:30	0.70	
1,2,3,7,8-PeCDD	77.8			33:38	1.5	
1,2,3,4,7,8-HxCDD	111			36:06	1.23	
1,2,3,6,7,8-HxCDD	1360			36:11	1.21	
1,2,3,7,8,9-HxCDD	445			36:25	1.18	
2,3,7,8--TCDF	7.36			29:33	0.84	
1,2,3,7,8-PeCDF	69.1			32:52	1.63	
2,3,4,7,8-PeCDF	171			33:27	1.53	
1,2,3,4,7,8-HxCDF	984			35:25	1.19	
1,2,3,6,7,8-HxCDF	323			35:30	1.21	
2,3,4,6,7,8-HxCDF	499			35:58	1.23	
1,2,3,7,8,9-HxCDF	362			36:43	1.3	
Total TCDDs	207					
Total PeCDDs	1570					Q
Total HxCDDs	15700					
Total TCDFs	159		160			DPE
Total PeCDFs	1300		1310			Q
Total HxCDFs	40300					DPE
ITEF TEQ (ND=0)	545		545			*
ITEF TEQ (ND=½)	545		545			*

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-6 SWP Log #17411

Laboratory Information

Project ID: G440-4
Sample ID: 13567RC

Collection Date/Time: 24-Jan-01 11:30
Receipt Date: 24-Jan-01
Extraction Date: 05-Feb-01
Analysis Date: 12-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 02.04 Grams
Solids / Lipids: 40.2 %
Original pH : NA
Batch ID: WG5250

Filename: a12feb01a-8
Retchk: a12feb01a-1
Begin ConCal: a12feb01a-1

Initial Cal: m1613-052699m

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Method 1613

SS-6 SWP Log #17411

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	2.33	116.6	30:28	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	2.19	109.6	33:38	1.57	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.86	92.9	36:05	1.24	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.06	102.9	36:11	1.22	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.58	129.1	29:32	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.65	132.6	32:51	1.56	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.64	132.1	33:27	1.59	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.88	93.8	35:24	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.00	100.2	35:30	0.51	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.85	92.3	35:58	0.52	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.15	107.4	36:41	0.51	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.95	118.8	30:30		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:46	0.81	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:58	0.52	

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-6 SWP Log #17411

Laboratory Information

Project ID: G440-4
Sample ID: 13567RC

Collection Date/Time: 24-Jan-01 11:30
Receipt Date: 24-Jan-01
Extraction Date: 05-Feb-01
Analysis Date: 12-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 02.04 Grams
Solids / Lipids: 40.2 %
Original pH : NA
Batch ID: WG5250

Filename: a12feb01a-8
Retchk: a12feb01a-1
Begin ConCal: a12feb01a-1

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 14Feb01

Reviewed by: [illegible]
Date: 2/14/01

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Method 1613

SS-6 SWP Log #17411

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
1,2,3,4,6,7,8-HpCDD	44100			39:16	1.05	
OCDD	469000			43:12	0.86	
1,2,3,4,6,7,8-HpCDF	83900			38:05	1.02	
1,2,3,4,7,8,9-HpCDF	979			39:53	1.08	
OCDF	77000			43:29	0.81	
Total HpCDDs	237000					
Total HpCDFs	169000					
ITEF TEQ (ND=0)	1840		1840			*
ITEF TEQ (ND=½)	1840		1840			*

Client Information

Project Name:	SWP-Wilmington	
Sample ID:	SS-6 SWP Log #17411	

Laboratory Information

Project ID:	G440-4	
Sample ID:	13567RC	D10
Collection Date/Time:	24-Jan-01	11:30
Receipt Date:	24-Jan-01	
Extraction Date:	05-Feb-01	
Analysis Date:	14-Feb-01	

Sample Information

Matrix:	Solid	
Weight / Volume:	02.04	Grams
Solids / Lipids:	40.2	%
Original pH :	NA	
Batch ID:	WG5250	
Filename:	a13feb01a_2-2	
Retchk:	a13feb01a-15	
Begin ConCal:	a13feb01a-15	
Initial Cal:	m1613-052699m	

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Method 1613

SS-6 SWP Log #17411

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.88	94.2	39:15	1.02	
$^{13}C_{12}$-OCDD	4	3.90	97.4	43:12	0.95	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.39	119.4	38:05	0.52	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.21	110.5	39:52	0.46	
Injection Standards						
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:57	0.51	

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-6 SWP Log #17411

Laboratory Information

Project ID: G440-4
Sample ID: 13567RC D10

Collection Date/Time: 24-Jan-01 11:30
Receipt Date: 24-Jan-01
Extraction Date: 05-Feb-01
Analysis Date: 14-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 02.04 Grams
Solids / Lipids: 40.2 %
Original pH : NA
Batch ID: WG5250

Filename: a13feb01a_2-2
Retchk: a13feb01a-15
Begin ConCal: a13feb01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 14 Feb 01

Reviewed by: [illegible]
Date: 2/14/01

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Method 1613

SS-5 SWP Log #17412

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.664				
1,2,3,7,8-PeCDD	1.11			33:38	1.54	A
1,2,3,4,7,8-HxCDD	2.82			36:05	1.07	A
1,2,3,6,7,8-HxCDD	17.0			36:11	1.11	
1,2,3,7,8,9-HxCDD	4.95			36:24	1.39	A
1,2,3,4,6,7,8-HpCDD	933			39:16	0.98	
OCDD	13700			43:12	0.86	
2,3,7,8--TCDF	ND	0.362				
1,2,3,7,8-PeCDF	0.665			32:51	1.38	A
2,3,4,7,8-PeCDF	1.47			33:27	1.38	A
1,2,3,4,7,8-HxCDF	5.39			35:24	1.18	A
1,2,3,6,7,8-HxCDF	2.13			35:30	1.27	A
2,3,4,6,7,8-HxCDF	3.36			35:58	1.18	A
1,2,3,7,8,9-HxCDF	EMPC	1.50	1.79	36:43	1.47	
1,2,3,4,6,7,8-HpCDF	389			38:05	1.00	
1,2,3,4,7,8,9-HpCDF	5.69			39:52	1.08	A
OCDF	648			43:29	0.83	
Total TCDDs	ND	2.03				
Total PeCDDs	12.6					
Total HxCDDs	288					
Total HpCDDs	5530					
Total TCDFs	ND	0.362				
Total PeCDFs	9.51		10.3			
Total HxCDFs	191		193			
Total HpCDFs	844					
ITEF TEQ (ND=0)	32.5		32.7			
ITEF TEQ (ND=½)	32.9		33.0			

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-5 SWP Log #17412

Laboratory Information

Project ID: G440-4
Sample ID: 13568R

Collection Date/Time: 24-Jan-01 11:55
Receipt Date: 24-Jan-01
Extraction Date: 05-Feb-01
Analysis Date: 09-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 02.17 Grams
Solids / Lipids: 74.8 %
Original pH : NA
Batch ID: WG5250

Filename: a09feb01a-3
Retchk: a09feb01a-1
Begin ConCal: a09feb01a-1

Initial Cal: m1613-052699m

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Method 1613

SS-5 SWP Log #17412

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.60	80.1	30:28	0.83	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.63	81.6	33:37	1.56	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.70	84.8	36:05	1.17	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	1.89	94.4	36:10	1.16	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.67	83.5	39:16	1.01	
$^{13}C_{12}$-OCDD	4	3.19	79.8	43:11	0.79	
$^{13}C_{12}$-2,3,7,8-TCDF	2	1.84	92.0	29:32	0.83	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.78	89.0	32:51	1.67	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	1.87	93.6	33:26	1.62	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.63	81.7	35:24	0.50	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.77	88.3	35:30	0.51	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.66	82.9	35:57	0.5	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	1.86	93.2	36:41	0.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.77	88.7	38:05	0.44	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.16	108.1	39:52	0.45	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.59	73.8	30:29		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:45	0.81	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:57	0.5	

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-5 SWP Log #17412

Laboratory Information

Project ID: G440-4
Sample ID: 13568R

Collection Date/Time: 24-Jan-01 11:55
Receipt Date: 24-Jan-01
Extraction Date: 05-Feb-01
Analysis Date: 09-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 02.17 Grams
Solids / Lipids: 74.8 %
Original pH : NA
Batch ID: WG5250

Filename: a09feb01a-3
Retchk: a09feb01a-1
Begin ConCal: a09feb01a-1

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 13Feb01

Reviewed by: [illegible]
Date: 2/13/01

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Method 1613

SD-25 SWP Log #17413

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	3.20			30:30	0.73	A
1,2,3,7,8-PeCDD	16.4			33:38	1.55	
1,2,3,4,7,8-HxCDD	51.0			36:06	1.16	
1,2,3,6,7,8-HxCDD	305			36:11	1.2	
1,2,3,7,8,9-HxCDD	84.4			36:25	1.19	
2,3,7,8--TCDF	6.36			29:33	0.72	
1,2,3,7,8-PeCDF	6.75			32:52	1.55	A
2,3,4,7,8-PeCDF	19.0			33:27	1.51	
1,2,3,4,7,8-HxCDF	73.5			35:25	1.22	
1,2,3,6,7,8-HxCDF	28.2			35:30	1.18	
2,3,4,6,7,8-HxCDF	53.9			35:59	1.22	
1,2,3,7,8,9-HxCDF	19.7			36:44	1.33	
1,2,3,4,6,7,8-HpCDF	3530			38:05	1.02	
1,2,3,4,7,8,9-HpCDF	117			39:53	1.03	
OCDF	10700			43:30	0.85	
Total TCDDs	54.0		60.4			
Total PeCDDs	346					
Total HxCDDs	5200		5200			
Total TCDFs	69.4		81.6			
Total PeCDFs	196					
Total HxCDFs	2540					
Total HpCDFs	11700					
ITEF TEQ (ND=0)	131		131			*
ITEF TEQ (ND=½)	131		131			*

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-25 SWP Log #17413

Laboratory Information

Project ID: G440-4
Sample ID: 13569RC

Collection Date/Time: 24-Jan-01 12:30
Receipt Date: 24-Jan-01
Extraction Date: 05-Feb-01
Analysis Date: 12-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 02.32 Grams
Solids / Lipids: 66.2 %
Original pH : NA
Batch ID: WG5250

Filename: a12feb01a-9
Retchk: a12feb01a-1
Begin ConCal: a12feb01a-1

Initial Cal: m1613-052699m

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Method 1613

SD-25 SWP Log #17413

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	3.03	151.6	30:28	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	2.87	143.4	33:38	1.55	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.88	93.9	36:05	1.23	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.12	106.0	36:11	1.22	
$^{13}C_{12}$-OCDD	4	4.67	116.9	43:14	0.97	
$^{13}C_{12}$-2,3,7,8-TCDF	2	3.28	164.0	29:32	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	3.54	177.1	32:51	1.56	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	3.47	173.6	33:27	1.58	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.97	98.7	35:25	0.50	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.06	103.0	35:30	0.52	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.89	94.3	35:58	0.53	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.24	111.9	36:42	0.52	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.10	105.1	38:05	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.26	113.1	39:53	0.46	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	1.17	146.3	30:30		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:46	0.8	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:58	0.53	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-25 SWP Log #17413

Laboratory Information

Project ID: G440-4
Sample ID: 13569RC

Collection Date/Time: 24-Jan-01 12:30
Receipt Date: 24-Jan-01
Extraction Date: 05-Feb-01
Analysis Date: 12-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 02.32 Grams
Solids / Lipids: 66.2 %
Original pH : NA
Batch ID: WG5250

Filename: a12feb01a-9
Retchk: a12feb01a-1
Begin ConCal: a12feb01a-1

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 14Feb01

Reviewed by: [illegible]
Date: 2/14/01

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Method 1613

SD-25 SWP Log #17413

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
1,2,3,4,6,7,8-HpCDD	19900			39:16	1.05	
OCDD	220000			43:13	0.86	
Total HpCDDs	105000					
ITEF TEQ (ND=0)	419		419			*
ITEF TEQ (ND=½)	419		419			*

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-25 SWP Log #17413

Laboratory Information

Project ID: G440-4
Sample ID: 13569RC D10

Collection Date/Time: 24-Jan-01 12:30
Receipt Date: 24-Jan-01
Extraction Date: 05-Feb-01
Analysis Date: 14-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 02.32 Grams
Solids / Lipids: 66.2 %
Original pH : NA
Batch ID: WG5250

Filename: a13feb01a_2-3
Retchk: a13feb01a-15
Begin ConCal: a13feb01a-15

Initial Cal: m1613-052699m

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Method 1613

SD-25 SWP Log #17413

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.84	92.1	39:15	1.02	
$^{13}C_{12}$-OCDD	4	3.94	98.4	43:12	0.94	
Injection Standards						
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:57	0.5	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-25 SWP Log #17413

Laboratory Information

Project ID: G440-4
Sample ID: 13569RC D10

Collection Date/Time: 24-Jan-01 12:30
Receipt Date: 24-Jan-01
Extraction Date: 05-Feb-01
Analysis Date: 14-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 02.32 Grams
Solids / Lipids: 66.2 %
Original pH : NA
Batch ID: WG5250

Filename: a13feb01a_2-3
Retchk: a13feb01a-15
Begin ConCal: a13feb01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 14Feb01

Reviewed by: [illegible]
Date: 2/14/01

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Method 1613

SS-7-Dup

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	1.76			30:30	0.66	A
1,2,3,7,8-PeCDD	10.5			33:38	1.52	A
1,2,3,4,7,8-HxCDD	31.8			36:06	1.24	
1,2,3,6,7,8-HxCDD	520			36:11	1.18	
1,2,3,7,8,9-HxCDD	80.0			36:24	1.14	
2,3,7,8--TCDF	2.58			29:33	0.77	A
1,2,3,7,8-PeCDF	11.9			32:52	1.68	A
2,3,4,7,8-PeCDF	32.7			33:27	1.53	
1,2,3,4,7,8-HxCDF	126			35:25	1.21	
1,2,3,6,7,8-HxCDF	38.7			35:30	1.19	
2,3,4,6,7,8-HxCDF	73.2			35:58	1.21	
1,2,3,7,8,9-HxCDF	40.2			36:43	1.18	
1,2,3,4,6,7,8-HpCDF	8080			38:05	1.04	
1,2,3,4,7,8,9-HpCDF	165			39:53	1.07	
OCDF	15400			43:31	0.85	
Total TCDDs	26.5		30.1			
Total PeCDDs	249		255			Q
Total HxCDDs	7440					
Total TCDFs	44.4		46.3			
Total PeCDFs	264		265			Q
Total HxCDFs	4810					
Total HpCDFs	22100					
ITEF TEQ (ND=0)	213		213			*
ITEF TEQ (ND=½)	213		213			*

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-7-Dup

Laboratory Information

Project ID: G440-4
Sample ID: 13570RC

Collection Date/Time: 24-Jan-01 08:15
Receipt Date: 24-Jan-01
Extraction Date: 05-Feb-01
Analysis Date: 12-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 02.74 Grams
Solids / Lipids: 55.2 %
Original pH : NA
Batch ID: WG5250

Filename: a12feb01a-10
Retchk: a12feb01a-1
Begin ConCal: a12feb01a-1

Initial Cal: m1613-052699m

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Method 1613

SS-7-Dup

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	2.32	115.9	30:28	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	2.18	108.9	33:38	1.56	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.86	92.9	36:05	1.19	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.02	100.8	36:10	1.18	
$^{13}C_{12}$-OCDD	4	5.06	126.6	43:15	1.02	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.65	132.5	29:32	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.67	133.3	32:51	1.53	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.66	133.2	33:27	1.58	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.95	97.3	35:24	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.03	101.7	35:30	0.5	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.85	92.6	35:58	0.5	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.18	108.9	36:42	0.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.13	106.3	38:05	0.48	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.28	114.2	39:53	0.48	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.95	118.4	30:30		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:46	0.82	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:58	0.5	

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-7-Dup

Laboratory Information

Project ID: G440-4
Sample ID: 13570RC

Collection Date/Time: 24-Jan-01 08:15
Receipt Date: 24-Jan-01
Extraction Date: 05-Feb-01
Analysis Date: 12-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 02.74 Grams
Solids / Lipids: 55.2 %
Original pH : NA
Batch ID: WG5250

Filename: a12feb01a-10
Retchk: a12feb01a-1
Begin ConCal: a12feb01a-1

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 14 Feb01

Reviewed by: [illegible]
Date: 2/14/01

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Method 1613

SS-7-Dup

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
1,2,3,4,6,7,8-HpCDD	30600			39:16	1.08	
OCDD	320000			43:13	0.86	E
Total HpCDDs	197000					
ITEF TEQ (ND=0)	626		626			*
ITEF TEQ (ND=½)	626		626			*

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-7-Dup

Laboratory Information

Project ID: G440-4
Sample ID: 13570RC D10

Collection Date/Time: 24-Jan-01 08:15
Receipt Date: 24-Jan-01
Extraction Date: 05-Feb-01
Analysis Date: 14-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 02.74 Grams
Solids / Lipids: 55.2 %
Original pH : NA
Batch ID: WG5250

Filename: a13feb01a_2-4
Retchk: a13feb01a-15
Begin ConCal: a13feb01a-15

Initial Cal: m1613-052699m

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Method 1613

SS-7-Dup

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.77	88.4	39:15	1.02	
$^{13}C_{12}$-OCDD	4	4.29	107.3	43:12	0.99	
Injection Standards						
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:57	0.52	

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-7-Dup

Laboratory Information

Project ID: G440-4
Sample ID: 13570RC D10

Collection Date/Time: 24-Jan-01 08:15
Receipt Date: 24-Jan-01
Extraction Date: 05-Feb-01
Analysis Date: 14-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 02.74 Grams
Solids / Lipids: 55.2 %
Original pH : NA
Batch ID: WG5250

Filename: a13feb01a_2-4
Retchk: a13feb01a-15
Begin ConCal: a13feb01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 14Feb01

Reviewed by: RD
Date: 2/14/01

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Method 1613

Equip 12401

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (ng/L)	EDL (ng/L)	EMPC (ng/L)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.0035				
1,2,3,7,8-PeCDD	ND	0.0013				
1,2,3,4,7,8-HxCDD	ND	0.0018				
1,2,3,6,7,8-HxCDD	ND	0.0018				
1,2,3,7,8,9-HxCDD	ND	0.0017				
1,2,3,4,6,7,8-HpCDD	ND	0.0028				
OCDD	0.0069			43:12	1.01	A
2,3,7,8--TCDF	ND	0.0020				
1,2,3,7,8-PeCDF	ND	0.0010				
2,3,4,7,8-PeCDF	ND	0.0009				
1,2,3,4,7,8-HxCDF	ND	0.0009				
1,2,3,6,7,8-HxCDF	ND	0.0008				
2,3,4,6,7,8-HxCDF	ND	0.0012				
1,2,3,7,8,9-HxCDF	ND	0.0012				
1,2,3,4,6,7,8-HpCDF	ND	0.0013				
1,2,3,4,7,8,9-HpCDF	ND	0.0022				
OCDF	ND	0.0046				
Total TCDDs	ND	0.0035				
Total PeCDDs	ND	0.0049				
Total HxCDDs	ND	0.0045				
Total HpCDDs	ND	0.0028				
Total TCDFs	ND	0.0020				
Total PeCDFs	ND	0.0009				
Total HxCDFs	ND	0.0010	0.0023			
Total HpCDFs	ND	0.0017				
ITEF TEQ (ND=0)	0.0000		0.0000			
ITEF TEQ (ND=½)	0.0029		0.0029			

Client Information

Project Name: SWP-Wilmington
Sample ID: Equip 12401

Laboratory Information

Project ID: G440-4
Sample ID: 13571

Collection Date/Time: 24-Jan-01 15:00
Receipt Date: 24-Jan-01
Extraction Date: 01-Feb-01
Analysis Date: 06-Feb-01

Sample Information

Matrix: Aqueous
Weight / Volume: 518 mL
Solids / Lipids: NA
Original pH : 5
Batch ID: WG5240

Filename: a05feb01a_2-4
Retchk: a05feb01a-15
Begin ConCal: a05feb01a-15

Initial Cal: m1613-052699m

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Method 1613

Equip 12401

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	1	0.47	47.1	30:30	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	1	0.52	52.0	33:38	1.53	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	1	0.66	65.9	36:06	1.29	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1	0.64	64.3	36:11	1.28	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	1	0.48	48.2	39:15	1.05	
$^{13}C_{12}$-OCDD	2	0.83	41.4	43:11	0.82	
$^{13}C_{12}$-2,3,7,8-TCDF	1	0.57	57.1	29:33	0.83	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1	0.61	60.7	32:51	1.55	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1	0.66	65.6	33:26	1.56	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1	0.62	61.7	35:24	0.50	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1	0.67	66.6	35:30	0.5	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1	0.61	60.9	35:57	0.52	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1	0.71	70.7	36:41	0.52	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1	0.62	62.2	38:05	0.48	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1	0.53	53.2	39:53	0.49	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.4	0.25	62.5	30:30		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:46	0.81	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:57	0.52	

Client Information

Project Name: SWP-Wilmington
Sample ID: Equip 12401

Laboratory Information

Project ID: G440-4
Sample ID: 13571

Collection Date/Time: 24-Jan-01 15:00
Receipt Date: 24-Jan-01
Extraction Date: 01-Feb-01
Analysis Date: 06-Feb-01

Analyzed by: HMP
Date: 07Feb01

Sample Information

Matrix: Aqueous
Weight / Volume: 518 mL
Solids / Lipids: NA
Original pH : 5
Batch ID: WG5240

Filename: a05feb01a_2-4
Retchk: a05feb01a-15
Begin ConCal: a05feb01a-15

Initial Cal: m1613-052699m

Reviewed by: [illegible]
Date: 2/7/01

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Method 1613 - QC BLANK Results

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Analytical Data Summary Sheet

Analyte	Amount (ng/L)	EDL (ng/L)	EMPC (ng/L)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.0027				
1,2,3,7,8-PeCDD	ND	0.0015				
1,2,3,4,7,8-HxCDD	ND	0.0019				
1,2,3,6,7,8-HxCDD	ND	0.0020				
1,2,3,7,8,9-HxCDD	ND	0.0018				
1,2,3,4,6,7,8-HpCDD	ND	0.0031				
OCDD	ND	0.0065				
2,3,7,8--TCDF	ND	0.0019				
1,2,3,7,8-PeCDF	ND	0.0009				
2,3,4,7,8-PeCDF	EMPC	0.0009	0.0017	33:27	2.04	
1,2,3,4,7,8-HxCDF	0.0021			35:25	1.16	A
1,2,3,6,7,8-HxCDF	EMPC	0.0011	0.0020	35:31	1.05	
2,3,4,6,7,8-HxCDF	ND	0.0015				
1,2,3,7,8,9-HxCDF	ND	0.0017				
1,2,3,4,6,7,8-HpCDF	ND	0.0013				
1,2,3,4,7,8,9-HpCDF	ND	0.0020				
OCDF	ND	0.0043				
Total TCDDs	ND	0.0027				
Total PeCDDs	ND	0.0045				
Total HxCDDs	ND	0.0051				
Total HpCDDs	ND	0.0031				
Total TCDFs	ND	0.0019				
Total PeCDFs	ND	0.0009	0.0017			
Total HxCDFs	0.0021		0.0041			
Total HpCDFs	ND	0.0016				
ITEF TEQ (ND=0)	0.0002		0.0012			
ITEF TEQ (ND=½)	0.0028		0.0036			

Laboratory Information

Sample ID: WG5240-1

Extraction Date: 01-Feb-01
Analysis Date: 06-Feb-01

Sample Information

Matrix: Aqueous
Weight / Volume: 500 mL
Solids / Lipids: NA
Original pH : 5
Batch ID: WG5240

Filename: a05feb01a_2-2
Retchk: a05feb01a-15
Begin ConCal: a05feb01a-15

Initial Cal: m1613-052699m

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Method 1613 - QC BLANK Results

LMB

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	1	0.72	72.2	30:29	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	1	0.72	72.1	33:38	1.57	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	1	0.90	90.1	36:05	1.27	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1	0.98	98.2	36:10	1.28	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	1	0.64	64.3	39:15	1.05	
$^{13}C_{12}$-OCDD	2	0.93	46.3	43:11	0.84	
$^{13}C_{12}$-2,3,7,8-TCDF	1	0.89	88.6	29:32	0.82	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1	0.84	84.2	32:51	1.57	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1	0.90	89.5	33:26	1.56	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1	0.91	90.5	35:24	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1	0.97	97.2	35:30	0.49	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1	0.88	87.8	35:58	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1	0.94	94.0	36:41	0.52	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1	0.85	85.4	38:05	0.49	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1	0.76	75.7	39:53	0.48	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.4	0.32	79.5	30:30		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:46	0.81	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:58	0.51	

Laboratory Information

Sample ID: WG5240-1

Extraction Date: 01-Feb-01
Analysis Date: 06-Feb-01

Analyzed by: HMP
Date: 07Feb01

Sample Information

Matrix: Aqueous
Weight / Volume: 500 mL
Solids / Lipids: NA
Original pH : 5
Batch ID: WG5240

Filename: a05feb01a_2-2
Retchk: a05feb01a-15
Begin ConCal: a05feb01a-15

Initial Cal: m1613-052699m

Reviewed by: [illegible]
Date: 2/7/01

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Method 1613 - QC BLANK Results

LMB

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.199				
1,2,3,7,8-PeCDD	ND	0.106				
1,2,3,4,7,8-HxCDD	ND	0.141				
1,2,3,6,7,8-HxCDD	ND	0.146				
1,2,3,7,8,9-HxCDD	ND	0.132				
1,2,3,4,6,7,8-HpCDD	0.892			39:16	1.17	A
OCDD	3.74			43:12	0.85	A
2,3,7,8--TCDF	ND	0.0850				
1,2,3,7,8-PeCDF	ND	0.0566				
2,3,4,7,8-PeCDF	ND	0.0568				
1,2,3,4,7,8-HxCDF	0.0840			35:24	1.28	A
1,2,3,6,7,8-HxCDF	EMPC	0.0618	0.0640	35:31	1.44	
2,3,4,6,7,8-HxCDF	ND	0.0756				
1,2,3,7,8,9-HxCDF	ND	0.0848				
1,2,3,4,6,7,8-HpCDF	0.274			38:06	1.04	A
1,2,3,4,7,8,9-HpCDF	ND	0.167				
OCDF	ND	0.278				
Total TCDDs	ND	0.199				
Total PeCDDs	ND	0.396				
Total HxCDDs	0.190		0.360			
Total HpCDDs	3.06					
Total TCDFs	ND	0.0850				
Total PeCDFs	ND	0.0568				
Total HxCDFs	0.0840		0.264			
Total HpCDFs	0.488					
ITEF TEQ (ND=0)	0.0238		0.0302			
ITEF TEQ (ND=½)	0.203		0.206			

Laboratory Information

Sample ID: WG5250-1

Extraction Date: 05-Feb-01
Analysis Date: 08-Feb-01

Sample Information

Matrix: Soil
Weight / Volume: 10.00 Grams
Solids / Lipids: 100 %
Original pH : NA
Batch ID: WG5250

Filename: a07feb01a_2-2
Retchk: a07feb01a-15
Begin ConCal: a07feb01a-15

Initial Cal: m1613-052699m

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Method 1613 - QC BLANK Results

LMB

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.38	68.9	30:29	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.26	62.8	33:38	1.58	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.40	70.1	36:05	1.27	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	1.67	83.6	36:10	1.26	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.29	64.5	39:16	1.04	
$^{13}C_{12}$-OCDD	4	2.20	55.0	43:11	0.87	
$^{13}C_{12}$-2,3,7,8-TCDF	2	1.60	79.8	29:33	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.38	69.1	32:51	1.68	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	1.46	72.8	33:26	1.69	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.35	67.4	35:24	0.52	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.53	76.7	35:30	0.53	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.41	70.3	35:58	0.53	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	1.56	78.2	36:42	0.52	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.44	71.8	38:05	0.47	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	1.51	75.7	39:53	0.48	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.55	68.5	30:30		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:46	0.81	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:58	0.53	

Laboratory Information

Sample ID: WG5250-1

Extraction Date: 05-Feb-01
Analysis Date: 08-Feb-01

Analyzed by: HMP
Date: 12Feb01

Sample Information

Matrix: Soil
Weight / Volume: 10.00 Grams
Solids / Lipids: 100 %
Original pH : NA
Batch ID: WG5250

Filename: a07feb01a_2-2
Retchk: a07feb01a-15
Begin ConCal: a07feb01a-15

Initial Cal: m1613-052699m

Reviewed by: [illegible]
Date: 2/12/01

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Analytical Results
for
Ongoing Precision Result (OPR)

Analyte	Spiked pg/ul	AMT pg/ul	REC %	Range pg/ul Lower	Range pg/ul Upper	Flag
2,3,7,8-TCDD	5.00	5.28	106	3.4	7.9	
1,2,3,7,8-PeCDD	12.5	13.9	111	8.8	17.8	
1,2,3,4,7,8-HxCDD	12.5	12.3	98.3	8.8	20.5	
1,2,3,6,7,8-HxCDD	12.5	13.4	107	9.5	16.7	
1,2,3,7,8,9-HxCDD	12.5	12.2	97.2	8.0	20.3	
1,2,3,4,6,7,8-HpCDD	12.5	15.9	127	8.8	17.5	
OCDD	25.0	29.5	118	19.5	36.0	
2,3,7,8-TCDF	5.00	5.44	109	3.8	7.9	
1,2,3,7,8-PeCDF	12.5	13.8	110	10.0	16.8	
2,3,4,7,8-PeCDF	12.5	12.8	102	8.5	20.0	
1,2,3,4,7,8-HxCDF	12.5	14.4	115	9.0	16.8	
1,2,3,6,7,8-HxCDF	12.5	14.3	114	10.5	16.3	
2,3,4,6,7,8-HxCDF	12.5	15.1	121	8.8	19.5	
1,2,3,7,8,9-HxCDF	12.5	13.0	104	9.8	16.3	
1,2,3,4,6,7,8-HpCDF	12.5	13.5	108	10.3	15.3	
1,2,3,4,7,8,9-HpCDF	12.5	12.8	103	9.8	17.3	
OCDF	25.0	29.2	117	18.5	36.5	

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= Outside range limits
* = Ion Ratio Out

QC Information

OPR Project No:	WG5240
Extraction Date:	01-Feb-01
Analysis Date:	6-FEB-01
Method:	1613

Sample Information

Matrix:	Aqueous

File Information

OPR Filename :	a05feb01a_2-1
Retchk:	a05feb01a-15
Begin ConCal:	a05feb01a-15
Initial Cal:	m1613-052699m

Analytical Results
for
Ongoing Precision Result (OPR)

Labeled Standard	Spiked pg/ul	AMT pg/ul	REC %	Range pg/ul Lower	Range pg/ul Upper	Flag
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	50.0	31.8	63.6	10	87.5	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	50.0	34.2	68.4	10.5	113.5	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	50.0	48.0	95.9	10.5	96.5	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	50.0	51.2	102	12.5	81.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	50.0	33.7	67.4	13	83	
$^{13}C_{12}$-OCDD	100	47.3	47.3	13	198.5	
$^{13}C_{12}$-2,3,7,8-TCDF	50.0	39.2	78.4	11	76	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	50.0	39.2	78.5	10.5	96	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	50.0	42.6	85.2	6.5	164	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	50.0	47.4	94.7	9.5	101	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	50.0	50.2	100	10.5	79.5	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	50.0	47.8	95.6	22	88	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	50.0	47.5	95.1	8.5	102.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	50.0	43.3	86.6	10.5	79	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	50.0	38.6	77.2	10	93	
Cleanup Standards						
$^{37}C_{14}$-2,3,7,8-TCDD	20.0	15.2	75.8	6.2	38.2	

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QC Information

OPR Project No:	WG5240
Extraction Date:	01-Feb-01
Analysis Date:	6-FEB-01
Method:	1613

File Information

OPR Filename :	a05feb01a_2-1
Retchk:	a05feb01a-15
Begin ConCal:	a05feb01a-15
Initial Cal:	m1613-052699m

Sample Information

Matrix: Aqueous

Reviewed by: [illegible]

Date Reviewed: 2/7/01

Analytical Results
for
Ongoing Precision Result (OPR)

Analyte	Spiked pg/ul	AMT pg/ul	REC %	Range pg/ul Lower	Range pg/ul Upper	Flag
2,3,7,8-TCDD	10.0	8.74	87.4	6.7	15.8	
1,2,3,7,8-PeCDD	25.0	22.3	89.2	17.5	35.5	
1,2,3,4,7,8-HxCDD	25.0	21.5	85.8	17.5	41.0	
1,2,3,6,7,8-HxCDD	25.0	23.3	93.4	19.0	33.4	
1,2,3,7,8,9-HxCDD	25.0	22.3	89.3	16.0	40.5	
1,2,3,4,6,7,8-HpCDD	25.0	26.9	107	17.5	35.0	
OCDD	50.0	50.6	101	39.0	72.0	
2,3,7,8-TCDF	10.0	9.17	91.7	7.5	15.8	
1,2,3,7,8-PeCDF	25.0	24.8	99.2	20.0	33.5	
2,3,4,7,8-PeCDF	25.0	24.0	96.1	17.0	40.0	
1,2,3,4,7,8-HxCDF	25.0	23.6	94.4	18.0	33.5	
1,2,3,6,7,8-HxCDF	25.0	24.0	96.1	21.0	32.5	
2,3,4,6,7,8-HxCDF	25.0	25.7	103	17.5	39.0	
1,2,3,7,8,9-HxCDF	25.0	21.7	86.7	19.5	32.5	
1,2,3,4,6,7,8-HpCDF	25.0	23.1	92.3	20.5	30.5	
1,2,3,4,7,8,9-HpCDF	25.0	21.8	87.1	19.5	34.5	
OCDF	50.0	52.3	105	37.0	73.0	

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SOUTHERN WOOD PIEDMONT

= Outside range limits
* = Ion Ratio Out

QC Information

OPR Project No:	WG5250
Extraction Date:	05-Feb-01
Analysis Date:	8-FEB-01
Method:	1613

File Information

OPR Filename :	a07feb01a_2-1
Retchk:	a07feb01a-15
Begin ConCal:	a07feb01a-15
Initial Cal:	m1613-052699m

Sample Information

Matrix:	Soil

Analytical Results
for
Ongoing Precision Result (OPR)

Labeled Standard	Spiked pg/ul	AMT pg/ul	REC %	Range pg/ul Lower	Range pg/ul Upper	Flag
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	100	65.7	65.7	20	175	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	100	61.8	61.8	21	227	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	100	67.5	67.5	21	193	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	100	79.0	79.0	25	163	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	100	60.8	60.8	26	166	
$^{13}C_{12}$-OCDD	200	105	52.6	26	397	
$^{13}C_{12}$-2,3,7,8-TCDF	100	76.3	76.3	22	152	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	100	67.6	67.6	21	192	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	100	69.8	69.8	13	328	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	100	64.1	64.1	19	202	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	100	71.1	71.1	21	159	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	100	67.2	67.2	22	176	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	100	76.3	76.3	17	205	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	100	67.0	67.0	21	158	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	100	74.0	74.0	20	186	
Cleanup Standards						
$^{37}C_{14}$-2,3,7,8-TCDD	40.0	27.0	67.5	12.4	76.4	

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QC Information

OPR Project No: WG5250
Extraction Date: 05-Feb-01
Analysis Date: 8-FEB-01
Method: 1613

File Information

OPR Filename : a07feb01a_2-1
Retchk: a07feb01a-15
Begin ConCal: a07feb01a-15
Initial Cal: m1613-052699m

Sample Information

Matrix: Soil

Reviewed by: [signature]

Date Reviewed: 2/12/01

Analytical Results
for
Ongoing Precision Result (OPR)

Analyte	Spiked pg/ul	AMT pg/ul	REC %	Range pg/ul Lower	Range pg/ul Upper	Flag
2,3,7,8-TCDD	10.0	9.18	91.8	6.7	15.8	
1,2,3,7,8-PeCDD	25.0	24.0	96.1	17.5	35.5	
1,2,3,4,7,8-HxCDD	25.0	22.1	88.2	17.5	41.0	
1,2,3,6,7,8-HxCDD	25.0	23.9	95.7	19.0	33.4	
1,2,3,7,8,9-HxCDD	25.0	23.3	93.2	16.0	40.5	
1,2,3,4,6,7,8-HpCDD	25.0	26.4	105	17.5	35.0	
OCDD	50.0	51.7	103	39.0	72.0	
2,3,7,8-TCDF	10.0	9.21	92.1	7.5	15.8	
1,2,3,7,8-PeCDF	25.0	23.9	95.6	20.0	33.5	
2,3,4,7,8-PeCDF	25.0	22.7	90.8	17.0	40.0	
1,2,3,4,7,8-HxCDF	25.0	24.4	97.5	18.0	33.5	
1,2,3,6,7,8-HxCDF	25.0	23.9	95.4	21.0	32.5	
2,3,4,6,7,8-HxCDF	25.0	25.9	104	17.5	39.0	
1,2,3,7,8,9-HxCDF	25.0	21.8	87.3	19.5	32.5	
1,2,3,4,6,7,8-HpCDF	25.0	22.1	88.6	20.5	30.5	
1,2,3,4,7,8,9-HpCDF	25.0	21.4	85.5	19.5	34.5	
OCDF	50.0	54.7	109	37.0	73.0	

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= Outside range limits
* = Ion Ratio Out

QC Information

OPR Project No:	WG5250C
Extraction Date:	05-Feb-01
Analysis Date:	12-FEB-01
Method:	1613

File Information

OPR Filename :	a12feb01a-3
Retchk:	a12feb01a-1
Begin ConCal:	a12feb01a-1
Initial Cal:	m1613-052699m

Sample Information

Matrix: Solid

Analytical Results
for
Ongoing Precision Result (OPR)

Labeled Standard	Spiked pg/ul	AMT pg/ul	REC %	Range pg/ul Lower	Range pg/ul Upper	Flag
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	100	92.3	92.3	20	175	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	100	90.4	90.4	21	227	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	100	81.4	81.4	21	193	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	100	107	107	25	163	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	100	81.6	81.6	26	166	
$^{13}C_{12}$-OCDD	200	123	61.5	26	397	
$^{13}C_{12}$-2,3,7,8-TCDF	100	110	110	22	152	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	100	105	105	21	192	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	100	112	112	13	328	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	100	84.7	84.7	19	202	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	100	104	104	21	159	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	100	92.2	92.2	22	176	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	100	102	102	17	205	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	100	95.6	95.6	21	158	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	100	101	101	20	186	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	40.0	37.9	94.6	12.4	76.4	

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SOUTHERN WOOD PIEDMONT

QC Information

OPR Project No: WG5250C
Extraction Date: 05-Feb-01
Analysis Date: 12-FEB-01
Method: 1613

File Information

OPR Filename : a12feb01a-3
Retchk: a12feb01a-1
Begin ConCal: a12feb01a-1
Initial Cal: m1613-052699m

Sample Information

Matrix: Solid

Reviewed by: [illegible]

Date Reviewed: 2/14/01

'ARADIGM ANALYTICAL LABORATORIES, INC.
.627 Northchase Parkway SE, Wilmington, NC 28405
'hone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC#

Page 1 of 2

:ontact: Greg Kuntz
'hone: 803-796-6240
:O. No.:
Quote #:

Client: Southern Wood Piedmont
Address: P.O. Box 5447
Address: Spartanburg, SC
Address: 29304

Date: 1/24/01
T.A.T. (Std 21): Standard
Project ID: SWP-Wilmington
Job Number: 979007.A0-27

Report To: Sandra Watson
P.O. Box 5447
Spartanburg, SC 29304
Invoice To: Same

Report: Full ☐ Summary ☒
EDD: No ☐ Yes ☒

Sample ID	Date	Time	Matrix	Method 1613 2378-TCDD	1613 2378-TCDD/F	1613 Tetra-Octa	8290 2378-TCDD	8290 2378-TCDD/F	8290 Tetra-Octa	8280 2378-TCDD	8280 2378-TCDD/F	8280 Appendix IX	8280 Tetra-Octa	Other	Comments
SS-7 SWPlog# 17404	1/24/01	8:15	Solid			X									* Wilmington Site Specific
SS-2 17405		8:45													Dioxin-Furan Constituent List
SD-22 17406		9:25													
SD-21 17407		10:00													6440-4
SD-03 17408		10:20													
SS-3 17409		10:45													
SS-4 17410		11:10													
SS-6 17411		11:30													RECEIVED
SS-5 17412		11:55													FEB 15 2001
SD-25 17413		12:30													SOUTHERN WOOD PIEDMONT

Relinquished By	Date	Time	Received By	Date	Time	Temp	Sampled	Airbill #
Gregory B. Kuntz	1/24/01	16:00	[illegible]	1/24/01	16:00	Walk on ice 4.3°C		

ORI

PARADIGM ANALYTICAL LABORATORIES, INC.
2627 Northcha[redacted]arkway SE, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of C[redacted]ly Record & Analytical Request

COC#

Page [redacted] of 2

Contact: Greg Kurtz
Phone: 803-796-6240
P.O. No.:
Quote #:

Client: Southern Wood Piedmont
Address: P.O. Box 5447
Address: Spartanburg, SC 29304
Address:

Date: 1/24/01
T.A.T. (Std 21): Standard
Project ID: SWP-Wilmington
Job Number: 979007.AD-27

Report To: Sandra Watson
P.O. Box 5447
Spartanburg, SC 29304

Invoice To: Same

Sample ID	Date	Time	Matrix	Method: 1613 2378-TCDD	1613 2378-TCDD/F	1613 Tetra-Octa	8290 2378-TCDD	8290 2378-TCDD/F	8290 Tetra-Octa	8280 2378-TCDD	8280 2378-TCDD/F	8280 Appendix IX	8280 Tetra-Octa	Other	Comments
SS-7-Dup ----	1/24/01	8:15	Solid			X									* Wilmington Site Specific
Equip 12401 ----	↓	15:00	Liquid			↓									Dioxin-Furan Constituent List.
															6440-4
															RECEIVED
															FEB 15 2001
															SOUTHERN WOOD PIEDMONT

Report:
Full ☐
Summary ☒
EDD: No ☐
Yes ☒

Relinquished By	Date	Time	Received By	Date	Time	Temp	Sampled	Airbill #
Gregory B. Kurtz	1/24/01	16:00	Jerlie Johnson	1/24/01	16:00	Walk-on ice 4.3°C		

48

ORIGINAL

(E)

475 Mi. 15,

PARADIGM ANALYTICAL LABORATORIES, INC.
2627 Northchase Parkway S.E.
Wilmington, North Carolina 28405
(910) 350-1903
Fax (910) 350-1557

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SOUTHERN WOOD PIEDMONT

Tuesday, March 06, 2001

Ms. Sandra Watson
Southern Wood Piedmont
591 Springfield Road
Spartanburg, SC 29304

Dear Ms. Watson:

Enclosed are the final results for the samples received by Paradigm Analytical Laboratories, Inc. on January 26, 2001 under your Project Name "SWP-Wilmington". The samples were analyzed by Method 8290 following Paradigm's Standard Operating Procedures. Please see Page 2 of this report for the case narrative.

A summary data package has been provided.

No. of Samples Received:	**19 Soils, 1 Water**
Your Project Number:	**979007-AO-27**
PAL Project No.:	**G440-5**

We appreciate your business and look forward to working with you again. Please contact me if you have questions or need additional technical support.

Sincerely,

Christopher K. Cornwell
Assistant Director

PARADIGM ANALYTICAL LABORATORIES, INC.

Case Narrative
Paradigm Project G440-5

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Client Project No.:	979007-AO-27
Client Project Name:	SWP-Wilmington
No. of Samples Received:	19 Soils, 1 Water
No. of Samples Analyzed:	20
Method:	8290
No. of LMBs:	4
No. of OPRs:	4

- Dilution of several of the extracts was required to improve the chromatography and the quality of the data for some homologues. The data is qualified with a "D*" following the Paradigm Sample ID, where the "*" indicates the dilution level. There is no need to adjust the reported concentrations.
- The recovery of one or more Extraction Standards in Sample 13796 was less than the method specified QC limit. All TCDD/TCDF recoveries were below method specified QC limits. Numerous extraction procedures were attempted to enhance recoveries, but did not significantly improve recoveries. The sample analysis with the best recoveries was selected for reporting. This analysis is appended with a "R".

W.M. Larkins
Technical Director

March 6, 2001

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Table 1: Toxic Equivalency Factors

Analyte	World Health Organization	International-89	MADEP
2,3,7,8-TCDD	1	1	1
1,2,3,7,8-PeCDD	1	0.5	0.5
1,2,3,4,7,8-HxCDD	0.1	0.1	0.1
1,2,3,6,7,8-HxCDD	0.1	0.1	0.1
1,2,3,7,8,9-HxCDD	0.1	0.1	0.1
1,2,3,4,6,7,8-HpCDD	0.01	0.01	0.1
OCDD	0.0001	0.001	0.001
2,3,7,8-TCDF	0.1	0.1	0.1
1,2,3,7,8-PeCDF	0.05	0.05	0.5
2,3,4,7,8-PeCDF	0.5	0.5	0.5
1,2,3,4,7,8-HxCDF	0.1	0.1	0.1
1,2,3,6,7,8-HxCDF	0.1	0.1	0.1
2,3,4,6,7,8-HxCDF	0.1	0.1	0.1
1,2,3,7,8,9-HxCDF	0.1	0.1	0.1
1,2,3,4,6,7,8-HpCDF	0.01	0.01	0.1
1,2,3,4,7,8,9-HpCDF	0.01	0.01	0.1
OCDF	0.0001	0.001	0.001

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Table 2. List of Qualifiers

A	Amount detected is less than the Calibration Limit
B	Analyte was detected in the LMB at a level above the RL or EDL.
E	Amount detected is over the Method Calibration Limit
DPE	Denotes the presence of possible polychlorinated diphenylethers
EDL	"Estimated Detection Limit"
EMPC	"Estimated Maximum Possible Concentration"
ppt	Parts-per-trillion (pg/g; ng/L)
Q	Indicates the presence of quantitative interferences. They generally result in an underestimation of the affected total homologue groups.
V	Recovery is lower than 40%. The data has been validated based on a favorable signal-to-noise and detection limit.
#	Outside recovery limits
*	See cover letter

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Method 1613

~~SD~~-13 SWP Log #17417

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	8.24			30:30	0.67	
1,2,3,7,8-PeCDD	70.3			33:38	1.62	
1,2,3,4,7,8-HxCDD	240			36:06	1.14	
1,2,3,6,7,8-HxCDD	562			36:11	1.11	
1,2,3,7,8,9-HxCDD	270			36:24	1.12	
2,3,7,8--TCDF	6.39			29:34	0.72	
1,2,3,7,8-PeCDF	21.8			32:52	1.38	A
2,3,4,7,8-PeCDF	33.8			33:28	1.49	
1,2,3,4,7,8-HxCDF	139			35:25	1.17	
1,2,3,6,7,8-HxCDF	107			35:31	1.19	
2,3,4,6,7,8-HxCDF	165			35:58	1.15	
1,2,3,7,8,9-HxCDF	37.3			36:43	1.14	
1,2,3,4,6,7,8-HpCDF	6500			38:06	1.05	
1,2,3,4,7,8,9-HpCDF	178			39:53	1.02	
OCDF	7210			43:30	0.83	
Total TCDDs	188		192			
Total PeCDDs	755					
Total HxCDDs	7330					
Total TCDFs	190		192			
Total PeCDFs	697					
Total HxCDFs	4550		4580			
Total HpCDFs	16100		16300			DPE
ITEF TEQ (ND=0)	288		288			*
ITEF TEQ (ND=½)	288		288			*

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-13 SWP Log #17417		

Laboratory Information

Project ID:	G440-5		
Sample ID:	13780R		
Collection Date/Time:	25-Jan-01	07:30	
Receipt Date:	26-Jan-01		
Extraction Date:	02-Feb-01		
Analysis Date:	07-Feb-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	02.04	Grams
Solids / Lipids:	45.6	%
Original pH :	NA	
Batch ID:	WG5245	
Filename:	a06feb01a_2-1	
Retchk:	a06feb01a-15	
Begin ConCal:	a06feb01a-15	
Initial Cal:	m1613-052699m	

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SOUTHERN WOOD PIEDMONT

Method 1613

SD-13 SWP Log #17417

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.86	93.0	30:29	0.82	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.77	88.7	33:38	1.56	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	2.06	102.9	36:05	1.09	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.42	120.8	36:11	1.08	
$^{13}C_{12}$-OCDD	4	9.25	231.4	43:13	0.91	#
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.19	109.6	29:33	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.01	100.5	32:51	1.57	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.17	108.7	33:26	1.59	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	2.41	120.5	35:25	0.51	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.66	132.9	35:31	0.49	#
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	2.42	120.9	35:58	0.5	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.61	130.6	36:41	0.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.88	144.1	38:05	0.48	#
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.71	135.6	39:53	0.47	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.70	87.6	30:30		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:46	0.82	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:58	0.5	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-13 SWP Log #17417

Laboratory Information

Project ID: G440-5
Sample ID: 13780R

Collection Date/Time: 25-Jan-01 07:30
Receipt Date: 26-Jan-01
Extraction Date: 02-Feb-01
Analysis Date: 07-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 02.04 Grams
Solids / Lipids: 45.6 %
Original pH : NA
Batch ID: WG5245

Filename: a06feb01a_2-1
Retchk: a06feb01a-15
Begin ConCal: a06feb01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 13Feb01

Reviewed by: [illegible]
Date: 2/13/01

Paradigm Analytical Labs

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Method 1613

SD-13 SWP Log #17417

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
1,2,3,4,6,7,8-HpCDD	22800			39:17	1.09	
OCDD	210000			43:13	0.87	
Total HpCDDs	99700					
ITEF TEQ (ND=0)	438		438			*
ITEF TEQ (ND=½)	438		438			*

Client Information

Project Name:	SWP-Wilmington		**Sample Information**		
Sample ID:	SD-13 SWP Log #17417		Matrix:	Solid	
			Weight / Volume:	02.04	Grams
Laboratory Information			Solids / Lipids:	45.6	%
			Original pH :	NA	
Project ID:	G440-5		Batch ID:	WG5245	
Sample ID:	13780R	D5			
			Filename:	a07feb01a_2-8	
Collection Date/Time:	25-Jan-01	07:30	Retchk:	a07feb01a-15	
Receipt Date:	26-Jan-01		Begin ConCal:	a07feb01a-15	
Extraction Date:	02-Feb-01				
Analysis Date:	08-Feb-01		Initial Cal:	m1613-052699m	

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SOUTHERN WOOD PIEDMONT

Method 1613

SD-13 SWP Log #17417

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.88	94.2	39:16	1.07	
$^{13}C_{12}$-OCDD	4	4.98	124.5	43:12	0.93	
Injection Standards						
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:58	0.52	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-13 SWP Log #17417

Laboratory Information

Project ID: G440-5
Sample ID: 13780R D5

Collection Date/Time: 25-Jan-01 07:30
Receipt Date: 26-Jan-01
Extraction Date: 02-Feb-01
Analysis Date: 08-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 02.04 Grams
Solids / Lipids: 45.6 %
Original pH : NA
Batch ID: WG5245

Filename: a07feb01a_2-8
Retchk: a07feb01a-15
Begin ConCal: a07feb01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 13Feb01

Reviewed by: [illegible]
Date: 2/13/01

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SOUTHERN WOOD PIEDMONT

Method 1613

SD-24 SWP Log #17418

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	EMPC	3.55	5.83	30:30	0.58	
1,2,3,7,8-PeCDD	19.3			33:38	1.44	A
1,2,3,4,7,8-HxCDD	57.2			36:06	1.13	A
1,2,3,6,7,8-HxCDD	257			36:11	1.16	
1,2,3,7,8,9-HxCDD	104			36:24	1.20	
1,2,3,4,6,7,8-HpCDD	13100			39:17	1.03	
OCDD	150000			43:12	0.87	E
2,3,7,8--TCDF	ND	2.08				
1,2,3,7,8-PeCDF	8.72			32:52	1.50	A
2,3,4,7,8-PeCDF	20.6			33:28	1.5	A
1,2,3,4,7,8-HxCDF	68.4			35:25	1.17	A
1,2,3,6,7,8-HxCDF	55.1			35:30	1.19	A
2,3,4,6,7,8-HxCDF	65.9			35:58	1.07	A
1,2,3,7,8,9-HxCDF	22.7			36:43	1.19	A
1,2,3,4,6,7,8-HpCDF	3970			38:06	1.04	
1,2,3,4,7,8,9-HpCDF	89.9			39:54	0.97	
OCDF	6250			43:29	0.83	
Total TCDDs	15.8		38.5			
Total PeCDDs	272		280			
Total HxCDDs	4010		4090			
Total HpCDDs	72700					
Total TCDFs	24.8		34.3			
Total PeCDFs	215		227			
Total HxCDFs	2480					
Total HpCDFs	9870					
ITEF TEQ (ND=0)	411		417			
ITEF TEQ (ND=½)	413		417			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-24 SWP Log #17418		

Laboratory Information

Project ID:	G440-5		
Sample ID:	13781R		
Collection Date/Time:	25-Jan-01	07:50	
Receipt Date:	26-Jan-01		
Extraction Date:	02-Feb-01		
Analysis Date:	07-Feb-01		

Sample Information

Matrix:	Soil	
Weight / Volume:	02.03	Grams
Solids / Lipids:	15.0	%
Original pH :	NA	
Batch ID:	WG5245	
Filename:	a06feb01a-14	
Retchk:	a06feb01a-1	
Begin ConCal:	a06feb01a-1	
Initial Cal:	m1613-052699m	

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Method 1613

SD-24 SWP Log #17418

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.62	81.1	30:29	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.51	75.7	33:38	1.57	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.65	82.4	36:05	1.08	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	1.78	89.1	36:10	1.06	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.77	88.7	39:16	1.04	
$^{13}C_{12}$-OCDD	4	4.20	105.0	43:12	0.85	
$^{13}C_{12}$-2,3,7,8-TCDF	2	1.90	95.1	29:32	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.69	84.4	32:51	1.63	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	1.80	89.8	33:27	1.58	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.89	94.3	35:24	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.98	98.8	35:30	0.49	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.85	92.4	35:58	0.5	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.11	105.5	36:41	0.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.05	102.5	38:05	0.47	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.08	104.1	39:53	0.47	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.62	77.1	30:30		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:46	0.8	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:58	0.5	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-24 SWP Log #17418

Laboratory Information

Project ID: G440-5
Sample ID: 13781R

Collection Date/Time: 25-Jan-01 07:50
Receipt Date: 26-Jan-01
Extraction Date: 02-Feb-01
Analysis Date: 07-Feb-01

Sample Information

Matrix: Soil
Weight / Volume: 02.03 Grams
Solids / Lipids: 15.0 %
Original pH : NA
Batch ID: WG5245

Filename: a06feb01a-14
Retchk: a06feb01a-1
Begin ConCal: a06feb01a-1

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 07Feb01

Reviewed by: [illegible]
Date: 2/8/01

Paradigm Analytical Labs

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Method 1613

SD-23 SWP Log #17419

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	EMPC	1.90	6.36	30:30	0.60	
1,2,3,7,8-PeCDD	35.6			33:38	1.56	
1,2,3,4,7,8-HxCDD	111			36:06	1.07	
1,2,3,6,7,8-HxCDD	474			36:11	1.14	
1,2,3,7,8,9-HxCDD	187			36:24	1.12	
2,3,7,8--TCDF	3.98			29:34	0.8	A
1,2,3,7,8-PeCDF	12.2			32:51	1.45	A
2,3,4,7,8-PeCDF	29.3			33:28	1.54	A
1,2,3,4,7,8-HxCDF	109			35:25	1.24	
1,2,3,6,7,8-HxCDF	62.1			35:31	1.22	
2,3,4,6,7,8-HxCDF	114			35:58	1.21	
1,2,3,7,8,9-HxCDF	33.3			36:43	1.25	
1,2,3,4,6,7,8-HpCDF	6110			38:05	1.03	
1,2,3,4,7,8,9-HpCDF	162			39:53	1.01	
OCDF	8560			43:30	0.82	
Total TCDDs	76.6		88.6			
Total PeCDDs	485		498			
Total HxCDDs	8820					
Total TCDFs	71.4		74.9			
Total PeCDFs	372					
Total HxCDFs	4180		4190			
Total HpCDFs	16700		16900			
ITEF TEQ (ND=0)	214		220			*
ITEF TEQ (ND=½)	215		220			*

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-23 SWP Log #17419		

Laboratory Information

Project ID:	G440-5		
Sample ID:	13782R		
Collection Date/Time:	25-Jan-01	08:30	
Receipt Date:	26-Jan-01		
Extraction Date:	02-Feb-01		
Analysis Date:	07-Feb-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	02.08	Grams
Solids / Lipids:	37.2	%
Original pH :	NA	
Batch ID:	WG5245	
Filename:	a06feb01a_2-2	
Retchk:	a06feb01a-15	
Begin ConCal:	a06feb01a-15	
Initial Cal:	m1613-052699m	

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SOUTHERN WOOD PIEDMONT

Method 1613

SD-23 SWP Log #17419

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.46	73.0	30:29	0.83	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.36	68.1	33:38	1.58	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.55	77.5	36:05	1.13	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	1.86	93.2	36:10	1.11	
$^{13}C_{12}$-OCDD	4	6.06	151.4	43:13	0.9	
$^{13}C_{12}$-2,3,7,8-TCDF	2	1.70	85.0	29:33	0.82	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.55	77.4	32:51	1.61	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	1.66	83.0	33:27	1.6	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.79	89.4	35:24	0.51	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.92	96.2	35:30	0.51	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.75	87.3	35:58	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	1.87	93.4	36:42	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.02	101.2	38:05	0.47	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	1.88	94.2	39:53	0.47	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.56	70.1	30:30		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:46	0.83	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:58	0.51	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-23 SWP Log #17419

Laboratory Information

Project ID: G440-5
Sample ID: 13782R

Collection Date/Time: 25-Jan-01 08:30
Receipt Date: 26-Jan-01
Extraction Date: 02-Feb-01
Analysis Date: 07-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 02.08 Grams
Solids / Lipids: 37.2 %
Original pH : NA
Batch ID: WG5245

Filename: a06feb01a_2-2
Retchk: a06feb01a-15
Begin ConCal: a06feb01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 13Feb01

Reviewed by: [illegible]
Date: 2/13/01

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Method 1613

SD-23 SWP Log #17419

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
1,2,3,4,6,7,8-HpCDD	29000			39:16	1.06	
OCDD	308000			43:13	0.88	E
Total HpCDDs	182000					
ITEF TEQ (ND=0)	598		598			*
ITEF TEQ (ND=½)	598		598			*

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-23 SWP Log #17419		

Laboratory Information

Project ID:	G440-5		
Sample ID:	13782R	D5	
Collection Date/Time:	25-Jan-01	08:30	
Receipt Date:	26-Jan-01		
Extraction Date:	02-Feb-01		
Analysis Date:	08-Feb-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	02.08	Grams
Solids / Lipids:	37.2	%
Original pH :	NA	
Batch ID:	WG5245	
Filename:	a07feb01a_2-9	
Retchk:	a07feb01a-15	
Begin ConCal:	a07feb01a-15	
Initial Cal:	m1613-052699m	

Method 1613

SD-23 SWP Log #17419

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Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.86	93.0	39:16	1.03	
$^{13}C_{12}$-OCDD	4	5.43	135.7	43:12	0.96	
Injection Standards						
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:58	0.51	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-23 SWP Log #17419

Laboratory Information

Project ID: G440-5
Sample ID: 13782R D5

Collection Date/Time: 25-Jan-01 08:30
Receipt Date: 26-Jan-01
Extraction Date: 02-Feb-01
Analysis Date: 08-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 02.08 Grams
Solids / Lipids: 37.2 %
Original pH : NA
Batch ID: WG5245

Filename: a07feb01a_2-9
Retchk: a07feb01a-15
Begin ConCal: a07feb01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 13Feb01

Reviewed by: [illegible]
Date: 2/13/01

Method 1613

SD-05 SWP Log #17420

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Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	5.37			30:30	0.73	A
1,2,3,7,8-PeCDD	38.1			33:38	1.72	
1,2,3,4,7,8-HxCDD	89.9			36:06	1.12	
1,2,3,6,7,8-HxCDD	271			36:11	1.17	
1,2,3,7,8,9-HxCDD	142			36:24	1.13	
1,2,3,4,6,7,8-HpCDD	10800			39:16	1.05	
2,3,7,8--TCDF	2.02			29:34	0.88	A
1,2,3,7,8-PeCDF	9.34			32:51	1.50	A
2,3,4,7,8-PeCDF	26.4			33:28	1.49	A
1,2,3,4,7,8-HxCDF	103			35:25	1.22	
1,2,3,6,7,8-HxCDF	74.7			35:31	1.24	
2,3,4,6,7,8-HxCDF	101			35:58	1.18	
1,2,3,7,8,9-HxCDF	35.5			36:43	1.41	
1,2,3,4,6,7,8-HpCDF	7100			38:05	1.06	
1,2,3,4,7,8,9-HpCDF	112			39:53	1.02	
OCDF	5830			43:29	0.83	
Total TCDDs	26.1		48.7			
Total PeCDDs	329		356			
Total HxCDDs	4260					
Total HpCDDs	57400					
Total TCDFs	60.4		63.3			
Total PeCDFs	367		370			
Total HxCDFs	4060					
Total HpCDFs	14900		15000			
ITEF TEQ (ND=0)	306		306			*
ITEF TEQ (ND=½)	306		306			*

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-05 SWP Log #17420		

Laboratory Information

Project ID:	G440-5		
Sample ID:	13783R		
Collection Date/Time:	25-Jan-01	08:50	
Receipt Date:	26-Jan-01		
Extraction Date:	02-Feb-01		
Analysis Date:	07-Feb-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	02.03	Grams
Solids / Lipids:	39.0	%
Original pH :	NA	
Batch ID:	WG5245	
Filename:	a06feb01a_2-3	
Retchk:	a06feb01a-15	
Begin ConCal:	a06feb01a-15	
Initial Cal:	m1613-052699m	

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Method 1613

SD-05 SWP Log #17420

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.57	78.6	30:29	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.55	77.3	33:38	1.56	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.76	87.8	36:05	1.2	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	1.98	99.0	36:11	1.05	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.90	94.9	39:16	1.07	
$^{13}C_{12}$-OCDD	4	5.08	127.0	43:12	0.86	
$^{13}C_{12}$-2,3,7,8-TCDF	2	1.82	90.9	29:33	0.83	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.66	83.2	32:51	1.58	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	1.76	87.8	33:27	1.58	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.97	98.3	35:24	0.52	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.14	106.9	35:30	0.5	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.91	95.5	35:58	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.00	99.8	36:42	0.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.14	107.1	38:05	0.48	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.00	99.9	39:53	0.47	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.60	75.0	30:30		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:46	0.82	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:58	0.51	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-05 SWP Log #17420

Laboratory Information

Project ID: G440-5
Sample ID: 13783R

Collection Date/Time: 25-Jan-01 08:50
Receipt Date: 26-Jan-01
Extraction Date: 02-Feb-01
Analysis Date: 07-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 02.03 Grams
Solids / Lipids: 39.0 %
Original pH : NA
Batch ID: WG5245

Filename: a06feb01a_2-3
Retchk: a06feb01a-15
Begin ConCal: a06feb01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 13Feb01

Reviewed by: [illegible]
Date: 2/13/01

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Method 1613

SD-05 SWP Log #17420

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
OCDD	111000			43:12	0.86	
ITEF TEQ (ND=0)	111		111			*
ITEF TEQ (ND=½)	111		111			*

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-05 SWP Log #17420		

Laboratory Information

Project ID:	G440-5		
Sample ID:	13783R	D10	
Collection Date/Time:	25-Jan-01	08:50	
Receipt Date:	26-Jan-01		
Extraction Date:	02-Feb-01		
Analysis Date:	14-Feb-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	02.03	Grams
Solids / Lipids:	39.0	%
Original pH :	NA	
Batch ID:	WG5245	
Filename:	a13feb01a_2-5	
Retchk:	a13feb01a-15	
Begin ConCal:	a13feb01a-15	
Initial Cal:	m1613-052699m	

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Method 1613

SD-05 SWP Log #17420

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-OCDD	4	3.96	99.0	43:11	0.83	
Injection Standards						
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:57	0.5	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-05 SWP Log #17420

Laboratory Information

Project ID: G440-5
Sample ID: 13783R D10

Collection Date/Time: 25-Jan-01 08:50
Receipt Date: 26-Jan-01
Extraction Date: 02-Feb-01
Analysis Date: 14-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 02.03 Grams
Solids / Lipids: 39.0 %
Original pH : NA
Batch ID: WG5245

Filename: a13feb01a_2-5
Retchk: a13feb01a-15
Begin ConCal: a13feb01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 17Feb01

Reviewed by: [illegible]
Date: 2/16/01

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Method 1613

SD-38 SWP Log #17422

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	EMPC	1.05	1.58	30:30	0.49	
1,2,3,7,8-PeCDD	5.28			33:38	1.61	A
1,2,3,4,7,8-HxCDD	12.6			36:06	1.21	A
1,2,3,6,7,8-HxCDD	83.2			36:11	1.15	
1,2,3,7,8,9-HxCDD	32.9			36:25	1.18	
1,2,3,4,6,7,8-HpCDD	2870			39:16	1.04	
OCDD	31600			43:13	0.88	
2,3,7,8--TCDF	EMPC	0.528	1.78	29:34	0.91	
1,2,3,7,8-PeCDF	4.28			32:51	1.33	A
2,3,4,7,8-PeCDF	10.7			33:28	1.5	A
1,2,3,4,7,8-HxCDF	43.6			35:25	1.17	
1,2,3,6,7,8-HxCDF	20.4			35:31	1.16	A
2,3,4,6,7,8-HxCDF	34.7			35:58	1.15	
1,2,3,7,8,9-HxCDF	15.7			36:44	1.15	A
1,2,3,4,6,7,8-HpCDF	3640			38:05	1.06	
1,2,3,4,7,8,9-HpCDF	42.4			39:53	1.06	
OCDF	3040			43:29	0.84	
Total TCDDs	33.5		36.9			
Total PeCDDs	103		105			
Total HxCDDs	1150					
Total HpCDDs	15300					
Total TCDFs	31.7		36.5			
Total PeCDFs	123		126			
Total HxCDFs	1760					
Total HpCDFs	7020					
ITEF TEQ (ND=0)	133		134			
ITEF TEQ (ND=½)	133		134			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-38 SWP Log #17422		

Laboratory Information

Project ID:	G440-5		
Sample ID:	13784R		
Collection Date/Time:	25-Jan-01	09:55	
Receipt Date:	26-Jan-01		
Extraction Date:	02-Feb-01		
Analysis Date:	07-Feb-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	02.08	Grams
Solids / Lipids:	42.6	%
Original pH :	NA	
Batch ID:	WG5245	
Filename:	a06feb01a_2-4	
Retchk:	a06feb01a-15	
Begin ConCal:	a06feb01a-15	
Initial Cal:	m1613-052699m	

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Method 1613

SD-38 SWP Log #17422

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.77	88.3	30:29	0.82	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.62	80.9	33:38	1.54	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.93	96.5	36:05	1.13	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.03	101.7	36:11	1.1	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.81	90.5	39:16	1.05	
$^{13}C_{12}$-OCDD	4	3.81	95.3	43:12	0.85	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.10	104.8	29:33	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.89	94.3	32:51	1.56	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	1.97	98.6	33:27	1.58	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	2.07	103.3	35:24	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.22	110.8	35:31	0.5	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	2.07	103.3	35:58	0.5	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.23	111.4	36:42	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.39	119.3	38:05	0.47	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.08	104.2	39:53	0.47	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.67	84.3	30:30		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:46	0.82	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:58	0.5	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-38 SWP Log #17422

Laboratory Information

Project ID: G440-5
Sample ID: 13784R

Collection Date/Time: 25-Jan-01 09:55
Receipt Date: 26-Jan-01
Extraction Date: 02-Feb-01
Analysis Date: 07-Feb-01

Analyzed by: HMP
Date: 13Feb01

Sample Information

Matrix: Solid
Weight / Volume: 02.08 Grams
Solids / Lipids: 42.6 %
Original pH : NA
Batch ID: WG5245

Filename: a06feb01a_2-4
Retchk: a06feb01a-15
Begin ConCal: a06feb01a-15

Initial Cal: m1613-052699m

Reviewed by: [illegible]
Date: 2/13/01

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Method 1613

SD-36 SWP Log #17423

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	2.21				
1,2,3,7,8-PeCDD	9.35			33:38	1.46	A
1,2,3,4,7,8-HxCDD	25.4			36:06	1.29	A
1,2,3,6,7,8-HxCDD	108			36:11	1.19	
1,2,3,7,8,9-HxCDD	48.2			36:25	1.16	A
1,2,3,4,6,7,8-HpCDD	4850			39:16	1.06	
OCDD	52800			43:13	0.87	
2,3,7,8--TCDF	3.79			29:34	0.85	A
1,2,3,7,8-PeCDF	3.75			32:52	1.51	A
2,3,4,7,8-PeCDF	11.8			33:28	1.5	A
1,2,3,4,7,8-HxCDF	35.8			35:25	1.19	A
1,2,3,6,7,8-HxCDF	20.3			35:31	1.25	A
2,3,4,6,7,8-HxCDF	37.1			35:58	1.22	A
1,2,3,7,8,9-HxCDF	11.2			36:43	1.08	A
1,2,3,4,6,7,8-HpCDF	2100			38:05	1.01	
1,2,3,4,7,8,9-HpCDF	40.6			39:53	1.15	A
OCDF	2830			43:29	0.81	
Total TCDDs	15.6		22.5			
Total PeCDDs	116		142			
Total HxCDDs	1610					
Total HpCDDs	24400					
Total TCDFs	42.9					
Total PeCDFs	137		147			
Total HxCDFs	1200		1200			
Total HpCDFs	4710					
ITEF TEQ (ND=0)	165		165			
ITEF TEQ (ND=½)	166		166			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-36 SWP Log #17423		

Laboratory Information

Project ID:	G440-5		
Sample ID:	13785R		
Collection Date/Time:	25-Jan-01	10:40	
Receipt Date:	26-Jan-01		
Extraction Date:	02-Feb-01		
Analysis Date:	07-Feb-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	02.00	Grams
Solids / Lipids:	25.3	%
Original pH :	NA	
Batch ID:	WG5245	
Filename:	a06feb01a_2-5	
Retchk:	a06feb01a-15	
Begin ConCal:	a06feb01a-15	
Initial Cal:	m1613-052699m	

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Method 1613

SD-37 SWP Log #17424

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	1.48				
1,2,3,7,8-PeCDD	8.01			33:38	1.37	A
1,2,3,4,7,8-HxCDD	18.9			36:06	1.23	A
1,2,3,6,7,8-HxCDD	94.0			36:11	1.13	
1,2,3,7,8,9-HxCDD	39.5			36:24	1.14	
1,2,3,4,6,7,8-HpCDD	3770			39:16	1.05	
OCDD	43200			43:13	0.87	
2,3,7,8--TCDF	1.76			29:34	0.73	A
1,2,3,7,8-PeCDF	3.85			32:51	1.34	A
2,3,4,7,8-PeCDF	10.0			33:28	1.57	A
1,2,3,4,7,8-HxCDF	35.0			35:25	1.18	
1,2,3,6,7,8-HxCDF	20.3			35:31	1.07	A
2,3,4,6,7,8-HxCDF	31.1			35:58	1.19	
1,2,3,7,8,9-HxCDF	11.3			36:43	1.15	A
1,2,3,4,6,7,8-HpCDF	2430			38:06	1.07	
1,2,3,4,7,8,9-HpCDF	39.4			39:54	0.93	
OCDF	2650			43:29	0.82	
Total TCDDs	24.8					
Total PeCDDs	134					
Total HxCDDs	1340					
Total HpCDDs	20100					
Total TCDFs	25.5		33.5			
Total PeCDFs	118		120			
Total HxCDFs	1230					
Total HpCDFs	5130					
ITEF TEQ (ND=0)	143		143			
ITEF TEQ (ND=½)	143		143			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-37 SWP Log #17424		

Laboratory Information

Project ID:	G440-5		
Sample ID:	13786R		
Collection Date/Time:	25-Jan-01	11:00	
Receipt Date:	26-Jan-01		
Extraction Date:	02-Feb-01		
Analysis Date:	07-Feb-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	02.09	Grams
Solids / Lipids:	43.0	%
Original pH :	NA	
Batch ID:	WG5245	
Filename:	a06feb01a_2-6	
Retchk:	a06feb01a-15	
Begin ConCal:	a06feb01a-15	
Initial Cal:	m1613-052699m	

Method 1613

SD-37 SWP Log #17424

Southern Wood Piedmont

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Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.64	81.8	30:29	0.83	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.52	76.1	33:38	1.54	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.75	87.6	36:05	1.11	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	1.93	96.6	36:11	1.12	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.67	83.4	39:16	1.07	
$^{13}C_{12}$-OCDD	4	3.52	88.0	43:12	0.84	
$^{13}C_{12}$-2,3,7,8-TCDF	2	1.97	98.5	29:33	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.77	88.5	32:51	1.57	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	1.86	93.0	33:26	1.57	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.82	90.9	35:24	0.51	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.00	100.2	35:30	0.5	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.88	94.1	35:58	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.09	104.7	36:42	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.00	100.0	38:05	0.48	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	1.94	97.0	39:53	0.46	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.64	79.9	30:30		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:46	0.83	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:58	0.51	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-37 SWP Log #17424

Laboratory Information

Project ID: G440-5
Sample ID: 13786R

Collection Date/Time: 25-Jan-01 11:00
Receipt Date: 26-Jan-01
Extraction Date: 02-Feb-01
Analysis Date: 07-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 02.09 Grams
Solids / Lipids: 43.0 %
Original pH : NA
Batch ID: WG5245

Filename: a06feb01a_2-6
Retchk: a06feb01a-15
Begin ConCal: a06feb01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 13Feb01

Reviewed by: [illegible]
Date: 2/13/01

Method 1613

SD-14 SWP Log #17425

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	2.21				
1,2,3,7,8-PeCDD	7.12			33:38	1.48	A
1,2,3,4,7,8-HxCDD	19.2			36:06	1.27	A
1,2,3,6,7,8-HxCDD	148			36:11	1.17	
1,2,3,7,8,9-HxCDD	47.6			36:24	1.21	
1,2,3,4,6,7,8-HpCDD	6970			39:16	1.08	
2,3,7,8--TCDF	2.46			29:34	0.77	A
1,2,3,7,8-PeCDF	6.06			32:51	1.37	A
2,3,4,7,8-PeCDF	19.9			33:28	1.5	A
1,2,3,4,7,8-HxCDF	60.3			35:25	1.13	
1,2,3,6,7,8-HxCDF	23.7			35:31	1.16	A
2,3,4,6,7,8-HxCDF	38.5			35:58	1.20	A
1,2,3,7,8,9-HxCDF	21.1			36:43	1.18	A
1,2,3,4,6,7,8-HpCDF	4240			38:05	1.06	
1,2,3,4,7,8,9-HpCDF	56.9			39:53	1.06	
OCDF	4360			43:29	0.82	
Total TCDDs	45.0					
Total PeCDDs	179		189			
Total HxCDDs	2580					
Total HpCDDs	45300					
Total TCDFs	42.7		50.4			
Total PeCDFs	211					
Total HxCDFs	2290					
Total HpCDFs	9090		9130			
ITEF TEQ (ND=0)	167.0		167.0			*
ITEF TEQ (ND=½)	168.0		168.0			*

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-14 SWP Log #17425		

Laboratory Information

Project ID:	G440-5		
Sample ID:	13787R		
Collection Date/Time:	25-Jan-01	11:25	
Receipt Date:	26-Jan-01		
Extraction Date:	02-Feb-01		
Analysis Date:	07-Feb-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	01.98	Grams
Solids / Lipids:	26.7	%
Original pH :	NA	
Batch ID:	WG5245	
Filename:	a06feb01a_2-7	
Retchk:	a06feb01a-15	
Begin ConCal:	a06feb01a-15	
Initial Cal:	m1613-052699m	

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Method 1613

SD-14 SWP Log #17425

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.85	92.3	30:29	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.69	84.6	33:38	1.56	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.75	87.6	36:05	1.08	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.12	105.8	36:11	1.06	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.98	99.1	39:16	1.04	
$^{13}C_{12}$-OCDD	4	4.37	109.3	43:12	0.83	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.19	109.6	29:33	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.94	97.0	32:51	1.6	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.05	102.7	33:27	1.61	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	2.05	102.6	35:24	0.48	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.28	113.8	35:31	0.5	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	2.10	105.2	35:58	0.49	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.39	119.7	36:42	0.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.43	121.6	38:05	0.48	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.28	114.0	39:53	0.47	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.70	86.9	30:30		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:46	0.83	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:58	0.49	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-14 SWP Log #17425

Laboratory Information

Project ID: G440-5
Sample ID: 13787R

Collection Date/Time: 25-Jan-01 11:25
Receipt Date: 26-Jan-01
Extraction Date: 02-Feb-01
Analysis Date: 07-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 01.98 Grams
Solids / Lipids: 26.7 %
Original pH : NA
Batch ID: WG5245

Filename: a06feb01a_2-7
Retchk: a06feb01a-15
Begin ConCal: a06feb01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 13Feb01

Reviewed by: [illegible]
Date: 2/13/01

Method 1613

SD-14 SWP Log #17425

Southern Wood Piedmont

MAR 0 7 2001
SOUTHERN WOOD PIEDMONT

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
OCDD	91000			43:12	0.86	
ITEF TEQ (ND=0)	91.0		91.0			*
ITEF TEQ (ND=½)	91.0		91.0			*

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-14 SWP Log #17425		

Laboratory Information

Project ID:	G440-5		
Sample ID:	13787R	D10	
Collection Date/Time:	25-Jan-01	11:25	
Receipt Date:	26-Jan-01		
Extraction Date:	02-Feb-01		
Analysis Date:	14-Feb-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	01.98	Grams
Solids / Lipids:	26.7	%
Original pH :	NA	
Batch ID:	WG5245	
Filename:	a13feb01a_2-6	
Retchk:	a13feb01a-15	
Begin ConCal:	a13feb01a-15	
Initial Cal:	m1613-052699m	

Method 1613

SD-14 SWP Log #17425

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-OCDD	4	3.64	91.1	43:11	0.82	
Injection Standards						
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:57	0.5	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-14 SWP Log #17425

Laboratory Information

Project ID: G440-5
Sample ID: 13787R D10

Collection Date/Time: 25-Jan-01 11:25
Receipt Date: 26-Jan-01
Extraction Date: 02-Feb-01
Analysis Date: 14-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 01.98 Grams
Solids / Lipids: 26.7 %
Original pH : NA
Batch ID: WG5245

Filename: a13feb01a_2-6
Retchk: a13feb01a-15
Begin ConCal: a13feb01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 17Feb01

Reviewed by: [illegible]
Date: 2/14/01

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Method 1613

SD-19 SWP Log #17426

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	EMPC	0.400	1.08	30:30	0.53	
1,2,3,7,8-PeCDD	3.63			33:38	1.41	A
1,2,3,4,7,8-HxCDD	9.19			36:06	1.12	A
1,2,3,6,7,8-HxCDD	60.2			36:11	1.16	
1,2,3,7,8,9-HxCDD	18.8			36:24	1.17	
1,2,3,4,6,7,8-HpCDD	2950			39:16	1.05	
OCDD	34000			43:13	0.87	E
2,3,7,8--TCDF	1.58			29:33	0.85	A
1,2,3,7,8-PeCDF	1.96			32:51	1.64	A
2,3,4,7,8-PeCDF	8.34			33:28	1.52	A
1,2,3,4,7,8-HxCDF	21.8			35:24	1.20	
1,2,3,6,7,8-HxCDF	9.25			35:30	1.22	A
2,3,4,6,7,8-HxCDF.	17.5			35:58	1.24	
1,2,3,7,8,9-HxCDF	6.06			36:43	1.29	A
1,2,3,4,6,7,8-HpCDF	1300			38:05	1.07	
1,2,3,4,7,8,9-HpCDF	25.6			39:53	1.11	
OCDF	2340			43:29	0.84	
Total TCDDs	6.43		9.63			
Total PeCDDs	39.4		44.4			
Total HxCDDs	826					
Total HpCDDs	16400					
Total TCDFs	22.4		22.6			
Total PeCDFs	76.6					Q
Total HxCDFs	760		765			
Total HpCDFs	3270					
ITEF TEQ (ND=0)	99.6		101			
ITEF TEQ (ND=½)	99.8		101			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-19 SWP Log #17426		

Laboratory Information

Project ID:	G440-5		
Sample ID:	13788		
Collection Date/Time:	25-Jan-01	12:10	
Receipt Date:	26-Jan-01		
Extraction Date:	08-Feb-01		
Analysis Date:	13-Feb-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	02.52	Grams
Solids / Lipids:	63.2	%
Original pH :	NA	
Batch ID:	WG5258	
Filename:	a12feb01a_2-7	
Retchk:	a12feb01a-15	
Begin ConCal:	a12feb01a-15	
Initial Cal:	m1613-052699m	

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Method 1613

SD-19 SWP Log #17426

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.92	95.8	30:28	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.90	94.9	33:38	1.57	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.92	95.8	36:05	1.19	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.19	109.4	36:10	1.18	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.91	95.7	39:16	1.07	
$^{13}C_{12}$-OCDD	4	4.53	113.2	43:12	0.87	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.32	115.9	29:32	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.27	113.4	32:51	1.6	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.29	114.5	33:26	1.56	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.97	98.4	35:24	0.50	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.15	107.5	35:30	0.5	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.98	99.0	35:57	0.5	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.26	113.2	36:41	0.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.20	110.1	38:05	0.47	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.36	117.8	39:53	0.47	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.74	93.0	30:30		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:45	0.82	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:57	0.5	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-19 SWP Log #17426

Laboratory Information

Project ID: G440-5
Sample ID: 13788

Collection Date/Time: 25-Jan-01 12:10
Receipt Date: 26-Jan-01
Extraction Date: 08-Feb-01
Analysis Date: 13-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 02.52 Grams
Solids / Lipids: 63.2 %
Original pH : NA
Batch ID: WG5258

Filename: a12feb01a_2-7
Retchk: a12feb01a-15
Begin ConCal: a12feb01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 17Feb01

Reviewed by: [illegible]
Date: 2/19/01

Method 1613

Equip 12501

Southern Wood Piedmont

MAR 0 2 2001

Analytical Data Summary Sheet

Analyte	Amount (ng/L)	EDL (ng/L)	EMPC (ng/L)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.0050				
1,2,3,7,8-PeCDD	ND	0.0017				
1,2,3,4,7,8-HxCDD	ND	0.0016				
1,2,3,6,7,8-HxCDD	ND	0.0018				
1,2,3,7,8,9-HxCDD	ND	0.0016				
1,2,3,4,6,7,8-HpCDD	ND	0.0030				
OCDD	EMPC	0.0043	0.0082	43:11	0.84	
2,3,7,8--TCDF	ND	0.0031				
1,2,3,7,8-PeCDF	ND	0.0010				
2,3,4,7,8-PeCDF	ND	0.0008				
1,2,3,4,7,8-HxCDF	ND	0.0009				
1,2,3,6,7,8-HxCDF	ND	0.0009				
2,3,4,6,7,8-HxCDF	ND	0.0010				
1,2,3,7,8,9-HxCDF	ND	0.0011				
1,2,3,4,6,7,8-HpCDF	ND	0.0015				
1,2,3,4,7,8,9-HpCDF	ND	0.0022				
OCDF	ND	0.0037				
Total TCDDs	ND	0.0050				
Total PeCDDs	ND	0.0041				
Total HxCDDs	ND	0.0046				
Total HpCDDs	ND	0.0030				
Total TCDFs	ND	0.0031				
Total PeCDFs	ND	0.0009				
Total HxCDFs	ND	0.0010	0.0023			
Total HpCDFs	ND	0.0018				
ITEF TEQ (ND=0)	0.0000		0.0000			
ITEF TEQ (ND=½)	0.0038		0.0038			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	Equip 12501		

Laboratory Information

Project ID:	G440-5		
Sample ID:	13789		
Collection Date/Time:	25-Jan-01	13:00	
Receipt Date:	26-Jan-01		
Extraction Date:	01-Feb-01		
Analysis Date:	06-Feb-01		

Sample Information

Matrix:	Aqueous	
Weight / Volume:	500	mL
Solids / Lipids:	NA	
Original pH :	5	
Batch ID:	WG5240	
Filename:	a05feb01a_2-5	
Retchk:	a05feb01a-15	
Begin ConCal:	a05feb01a-15	
Initial Cal:	m1613-052699m	

Method 1613

Equip 12501

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	1	0.34	34.3	30:29	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	1	0.57	57.2	33:37	1.56	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	1	0.81	80.9	36:05	1.31	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1	0.81	80.8	36:10	1.18	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	1	0.60	59.9	39:15	1.07	
$^{13}C_{12}$-OCDD	2	0.97	48.5	43:11	0.83	
$^{13}C_{12}$-2,3,7,8-TCDF	1	0.40	39.6	29:33	0.82	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1	0.57	57.4	32:51	1.55	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1	0.71	70.9	33:26	1.57	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1	0.72	72.4	35:24	0.50	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1	0.77	76.7	35:30	0.52	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1	0.79	79.4	35:57	0.52	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1	0.82	82.4	36:41	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1	0.75	74.5	38:05	0.49	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1	0.69	69.1	39:53	0.49	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.4	0.17	42.0	30:30		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:46	0.81	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:57	0.52	

Client Information

Project Name: SWP-Wilmington
Sample ID: Equip 12501

Laboratory Information

Project ID: G440-5
Sample ID: 13789

Collection Date/Time: 25-Jan-01 13:00
Receipt Date: 26-Jan-01
Extraction Date: 01-Feb-01
Analysis Date: 06-Feb-01

Sample Information

Matrix: Aqueous
Weight / Volume: 500 mL
Solids / Lipids: NA
Original pH : 5
Batch ID: WG5240

Filename: a05feb01a_2-5
Retchk: a05feb01a-15
Begin ConCal: a05feb01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 07Feb01

Reviewed by: [illegible]
Date: 2/8/01

Method 1613

SD-18 SWP Log #17427

Southern Wood Piedmont

SOUTHERN WOOD

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.658				
1,2,3,7,8-PeCDD	EMPC	0.425	1.41	33:38	1.88	
1,2,3,4,7,8-HxCDD	3.08			36:05	1.21	A
1,2,3,6,7,8-HxCDD	10.2			36:10	1.06	A
1,2,3,7,8,9-HxCDD	5.18			36:24	1.13	A
1,2,3,4,6,7,8-HpCDD	429			39:16	1.06	
OCDD	4860			43:12	0.85	
2,3,7,8--TCDF	0.658			29:32	0.83	A
1,2,3,7,8-PeCDF	0.711			32:51	1.35	A
2,3,4,7,8-PeCDF	2.26			33:27	1.52	A
1,2,3,4,7,8-HxCDF	3.41			35:24	1.18	A
1,2,3,6,7,8-HxCDF	EMPC	0.759	2.03	35:30	0.97	
2,3,4,6,7,8-HxCDF	3.76			35:58	1.11	A
1,2,3,7,8,9-HxCDF	ND	0.961				
1,2,3,4,6,7,8-HpCDF	171			38:05	1.06	
1,2,3,4,7,8,9-HpCDF	EMPC	1.33	3.66	39:52	0.84	
OCDF	284			43:28	0.8	
Total TCDDs	ND	2.09	1.37			
Total PeCDDs	4.08		13.3			
Total HxCDDs	136					
Total HpCDDs	1730					
Total TCDFs	4.67		5.24			
Total PeCDFs	18.8		19.5			
Total HxCDFs	103		105			
Total HpCDFs	373		377			
ITEF TEQ (ND=0)	14.9		15.9			
ITEF TEQ (ND=½)	15.5		16.3			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-18 SWP Log #17427		

Laboratory Information

Project ID:	G440-5		
Sample ID:	13790		
Collection Date/Time:	25-Jan-01	13:20	
Receipt Date:	26-Jan-01		
Extraction Date:	08-Feb-01		
Analysis Date:	13-Feb-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	02.28	Grams
Solids / Lipids:	66.7	%
Original pH :	NA	
Batch ID:	WG5258	
Filename:	a13feb01a-4	
Retchk:	a13feb01a-1	
Begin ConCal:	a13feb01a-1	
Initial Cal:	m1613-052699m	

Method 1613

SD-18 SWP Log #17427

Southern Wood Piedmont

MAR 2001
SOUTHERN WOOD PIEDMONT

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.54	76.9	30:28	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.53	76.5	33:37	1.57	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.56	78.0	36:05	1.19	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	1.78	89.0	36:10	1.17	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.48	73.9	39:15	1.04	
$^{13}C_{12}$-OCDD	4	2.79	69.7	43:11	0.8	
$^{13}C_{12}$-2,3,7,8-TCDF	2	1.79	89.5	29:32	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.65	82.6	32:51	1.75	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	1.71	85.7	33:26	1.75	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.57	78.3	35:24	0.51	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.74	87.0	35:30	0.51	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.58	79.1	35:58	0.52	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	1.80	89.8	36:41	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.71	85.3	38:05	0.47	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	1.79	89.7	39:52	0.46	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.60	74.5	30:29		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:45	0.81	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:58	0.52	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-18 SWP Log #17427

Laboratory Information

Project ID: G440-5
Sample ID: 13790

Collection Date/Time: 25-Jan-01 13:20
Receipt Date: 26-Jan-01
Extraction Date: 08-Feb-01
Analysis Date: 13-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 02.28 Grams
Solids / Lipids: 66.7 %
Original pH : NA
Batch ID: WG5258

Filename: a13feb01a-4
Retchk: a13feb01a-1
Begin ConCal: a13feb01a-1

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 17Feb01

Reviewed by: [illegible]
Date: 2/16/01

Method 1613

SD-18-Dup

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	EMPC	0.470	0.830	30:30	0.47	
1,2,3,7,8-PeCDD	1.30			33:38	1.43	A
1,2,3,4,7,8-HxCDD	3.00			36:05	1.06	A
1,2,3,6,7,8-HxCDD	9.43			36:10	1.24	A
1,2,3,7,8,9-HxCDD	5.37			36:24	1.08	A
1,2,3,4,6,7,8-HpCDD	429			39:16	1.03	
OCDD	4690			43:12	0.86	
2,3,7,8--TCDF	EMPC	0.300	0.600	29:33	0.92	
1,2,3,7,8-PeCDF	EMPC	0.248	0.804	32:51	1.15	
2,3,4,7,8-PeCDF	2.09			33:27	1.56	A
1,2,3,4,7,8-HxCDF	3.31			35:24	1.30	A
1,2,3,6,7,8-HxCDF	2.02			35:31	1.41	A
2,3,4,6,7,8-HxCDF	3.64			35:58	1.24	A
1,2,3,7,8,9-HxCDF	EMPC	0.754	1.33	36:42	1	
1,2,3,4,6,7,8-HpCDF	147			38:05	1.02	
1,2,3,4,7,8,9-HpCDF	ND	3.20				
OCDF	260			43:28	0.82	
Total TCDDs	2.07		2.90			
Total PeCDDs	12.0		14.0			
Total HxCDDs	131					
Total HpCDDs	1720					
Total TCDFs	3.25		4.88			
Total PeCDFs	16.5		17.8			
Total HxCDFs	94.0		94.9			
Total HpCDFs	329					
ITEF TEQ (ND=0)	15.1		16.1			
ITEF TEQ (ND=½)	15.4		16.2			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-18-Dup		

Laboratory Information

Project ID:	G440-5		
Sample ID:	13791		
Collection Date/Time:	25-Jan-01	13:20	
Receipt Date:	26-Jan-01		
Extraction Date:	08-Feb-01		
Analysis Date:	13-Feb-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	02.31	Grams
Solids / Lipids:	67.8	%
Original pH :	NA	
Batch ID:	WG5258	
Filename:	a13feb01a-5	
Retchk:	a13feb01a-1	
Begin ConCal:	a13feb01a-1	
Initial Cal:	m1613-052699m	

Method 1613

SD-18-Dup

Southern Wood Piedmont

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Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.93	96.4	30:28	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.85	92.3	33:37	1.58	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.93	96.7	36:05	1.19	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.27	113.5	36:10	1.18	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.85	92.4	39:16	1.04	
$^{13}C_{12}$-OCDD	4	3.71	92.8	43:11	0.81	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.23	111.3	29:32	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.98	99.0	32:51	1.77	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.12	106.0	33:26	1.74	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.95	97.6	35:24	0.51	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.17	108.7	35:30	0.51	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	2.00	99.8	35:58	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.23	111.3	36:41	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.20	109.8	38:05	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.26	113.0	39:52	0.46	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.75	94.0	30:30		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:45	0.8	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:58	0.51	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-18-Dup

Laboratory Information

Project ID: G440-5
Sample ID: 13791

Collection Date/Time: 25-Jan-01 13:20
Receipt Date: 26-Jan-01
Extraction Date: 08-Feb-01
Analysis Date: 13-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 02.31 Grams
Solids / Lipids: 67.8 %
Original pH : NA
Batch ID: WG5258

Filename: a13feb01a-5
Retchk: a13feb01a-1
Begin ConCal: a13feb01a-1

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 17Feb01

Reviewed by: [illegible]
Date: 2/19/01

Method 1613

SD-17 SWP Log #17428

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.384				
1,2,3,7,8-PeCDD	ND	0.390				
1,2,3,4,7,8-HxCDD	ND	0.438				
1,2,3,6,7,8-HxCDD	1.42			36:10	1.39	A
1,2,3,7,8,9-HxCDD	EMPC	0.406	0.726	36:23	1.05	
1,2,3,4,6,7,8-HpCDD	43.0			39:16	1.01	
OCDD	493			43:12	0.86	
2,3,7,8--TCDF	ND	0.300				
1,2,3,7,8-PeCDF	0.286			32:51	1.40	A
2,3,4,7,8-PeCDF	0.428			33:27	1.34	A
1,2,3,4,7,8-HxCDF	0.631			35:24	1.22	A
1,2,3,6,7,8-HxCDF	0.631			35:30	1.11	A
2,3,4,6,7,8-HxCDF	EMPC	0.433	0.666	35:58	1.05	
1,2,3,7,8,9-HxCDF	ND	0.499				
1,2,3,4,6,7,8-HpCDF	17.4			38:05	1.05	
1,2,3,4,7,8,9-HpCDF	ND	0.717				
OCDF	26.7			43:28	0.81	A
Total TCDDs	ND	2.11				
Total PeCDDs	0.535		1.11			
Total HxCDDs	8.06		14.1			
Total HpCDDs	139					
Total TCDFs	ND	0.300				
Total PeCDFs	1.93					
Total HxCDFs	9.93		10.6			
Total HpCDFs	36.4					
ITEF TEQ (ND=0)	1.62		1.76			
ITEF TEQ (ND=½)	2.02		2.11			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-17 SWP Log #17428		

Laboratory Information

Project ID:	G440-5		
Sample ID:	13792		
Collection Date/Time:	25-Jan-01	13:45	
Receipt Date:	26-Jan-01		
Extraction Date:	08-Feb-01		
Analysis Date:	13-Feb-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	02.03	Grams
Solids / Lipids:	82.8	%
Original pH :	NA	
Batch ID:	WG5258	
Filename:	a13feb01a-6	
Retchk:	a13feb01a-1	
Begin ConCal:	a13feb01a-1	
Initial Cal:	m1613-052699m	

Method 1613

SD-17 SWP Log #17428

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.92	96.1	30:28	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.86	92.8	33:37	1.54	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.93	96.7	36:05	1.19	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.23	111.5	36:10	1.17	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.85	92.5	39:16	1.03	
$^{13}C_{12}$-OCDD	4	3.58	89.5	43:11	0.82	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.25	112.6	29:32	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.07	103.5	32:51	1.73	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.20	110.2	33:26	1.67	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.93	96.7	35:24	0.50	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.20	110.0	35:30	0.51	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.99	99.7	35:58	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.24	112.2	36:41	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.16	107.8	38:05	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.28	114.2	39:53	0.47	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.74	93.0	30:29		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:45	0.81	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:58	0.51	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-17 SWP Log #17428

Laboratory Information

Project ID: G440-5
Sample ID: 13792

Collection Date/Time: 25-Jan-01 13:45
Receipt Date: 26-Jan-01
Extraction Date: 08-Feb-01
Analysis Date: 13-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 02.03 Grams
Solids / Lipids: 82.8 %
Original pH : NA
Batch ID: WG5258

Filename: a13feb01a-6
Retchk: a13feb01a-1
Begin ConCal: a13feb01a-1

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 14Feb01

Reviewed by: [illegible]
Date: 2/19/01

Method 1613

SD-16 SWP Log #17429

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	EMPC	0.390	0.721	30:29	0.41	
1,2,3,7,8-PeCDD	1.93			33:38	1.56	A
1,2,3,4,7,8-HxCDD	3.88			36:05	1.09	A
1,2,3,6,7,8-HxCDD	8.50			36:10	1.14	A
1,2,3,7,8,9-HxCDD	8.21			36:24	1.23	A
1,2,3,4,6,7,8-HpCDD	264			39:16	1.02	
OCDD	2080			43:12	0.86	
2,3,7,8--TCDF	ND	0.293				
1,2,3,7,8-PeCDF	0.464			32:51	1.65	A
2,3,4,7,8-PeCDF	0.770			33:27	1.66	A
1,2,3,4,7,8-HxCDF	1.44			35:24	1.37	A
1,2,3,6,7,8-HxCDF	EMPC	0.385	1.53	35:30	1	
2,3,4,6,7,8-HxCDF	2.41			35:58	1.27	A
1,2,3,7,8,9-HxCDF	ND	0.548				
1,2,3,4,6,7,8-HpCDF	52.9			38:05	1.06	
1,2,3,4,7,8,9-HpCDF	2.03			39:53	1.09	A
OCDF	112			43:28	0.79	
Total TCDDs	0.831		3.74			
Total PeCDDs	4.69		15.1			
Total HxCDDs	82.1		88.4			
Total HpCDDs	689					
Total TCDFs	1.18					
Total PeCDFs	7.26					
Total HxCDFs	40.3		41.8			
Total HpCDFs	121					
ITEF TEQ (ND=0)	9.20		10.1			
ITEF TEQ (ND=½)	9.45		10.1			

Client Information

Project Name: SWP-Wilmington

Sample ID: SD-16 SWP Log #17429

Laboratory Information

Project ID: G440-5

Sample ID: 13793

Collection Date/Time: 25-Jan-01 14:05

Receipt Date: 26-Jan-01

Extraction Date: 08-Feb-01

Analysis Date: 13-Feb-01

Sample Information

Matrix: Solid

Weight / Volume: 02.12 Grams

Solids / Lipids: 77.2 %

Original pH : NA

Batch ID: WG5258

Filename: a13feb01a-7

Retchk: a13feb01a-1

Begin ConCal: a13feb01a-1

Initial Cal: m1613-052699m

Method 1613

SD-15 SWP Log #17430

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	4.79			30:29	0.68	A
1,2,3,7,8-PeCDD	58.5			33:37	1.61	
1,2,3,4,7,8-HxCDD	150			36:05	1.14	
1,2,3,6,7,8-HxCDD	331			36:11	1.16	
1,2,3,7,8,9-HxCDD	323			36:24	1.17	
1,2,3,4,6,7,8-HpCDD	12200			39:16	1.04	
OCDD	103000			43:13	0.86	E
2,3,7,8--TCDF	2.31			29:32	0.69	A
1,2,3,7,8-PeCDF	6.84			32:51	1.47	A
2,3,4,7,8-PeCDF	14.2			33:27	1.73	A
1,2,3,4,7,8-HxCDF	50.4			35:24	1.21	A
1,2,3,6,7,8-HxCDF	40.7			35:30	1.19	A
2,3,4,6,7,8-HxCDF	89.8			35:58	1.19	
1,2,3,7,8,9-HxCDF	13.3			36:43	1.22	A
1,2,3,4,6,7,8-HpCDF	2650			38:05	1.01	
1,2,3,4,7,8,9-HpCDF	99.4			39:53	1.02	
OCDF	5330			43:29	0.81	
Total TCDDs	42.0		58.5			
Total PeCDDs	281		302			
Total HxCDDs	2750		2920			
Total HpCDDs	35100					
Total TCDFs	47.7		53.6			
Total PeCDFs	237		239			
Total HxCDFs	1860					
Total HpCDFs	6440					
ITEF TEQ (ND=0)	399		399			
ITEF TEQ (ND=½)	399		399			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-15 SWP Log #17430		

Laboratory Information

Project ID:	G440-5		
Sample ID:	13794		
Collection Date/Time:	25-Jan-01	14:30	
Receipt Date:	26-Jan-01		
Extraction Date:	08-Feb-01		
Analysis Date:	13-Feb-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	02.25	Grams
Solids / Lipids:	20.4	%
Original pH :	NA	
Batch ID:	WG5258	
Filename:	a13feb01a-8	
Retchk:	a13feb01a-1	
Begin ConCal:	a13feb01a-1	
Initial Cal:	m1613-052699m	

Method 1613

SD-15 SWP Log #17430

Southern Wood Piedmont

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Analytical Data Summary Sheet

SOUTHERN WOOD PIEDMONT

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.94	97.2	30:28	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.87	93.7	33:37	1.57	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.92	96.2	36:05	1.17	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.25	112.7	36:10	1.15	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.98	98.9	39:16	1.04	
$^{13}C_{12}$-OCDD	4	4.45	111.1	43:12	0.83	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.28	114.1	29:32	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.06	103.1	32:51	1.73	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.14	106.8	33:26	1.76	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.94	97.2	35:24	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.17	108.5	35:30	0.49	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	2.00	100.0	35:58	0.5	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.26	113.0	36:41	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.24	111.9	38:05	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.34	116.8	39:53	0.47	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.75	94.3	30:29		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:45	0.8	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:58	0.5	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-15 SWP Log #17430

Laboratory Information

Project ID: G440-5
Sample ID: 13794

Collection Date/Time: 25-Jan-01 14:30
Receipt Date: 26-Jan-01
Extraction Date: 08-Feb-01
Analysis Date: 13-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 02.25 Grams
Solids / Lipids: 20.4 %
Original pH : NA
Batch ID: WG5258

Filename: a13feb01a-8
Retchk: a13feb01a-1
Begin ConCal: a13feb01a-1

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 14Feb01

Reviewed by: [illegible]
Date: 2/19/01

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Method 1613

SD-14DF SWP Log #17432

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.405				
1,2,3,7,8-PeCDD	0.491			33:37	1.74	A
1,2,3,4,7,8-HxCDD	ND	0.585				
1,2,3,6,7,8-HxCDD	1.76			36:10	1.06	A
1,2,3,7,8,9-HxCDD	0.720			36:23	1.19	A
1,2,3,4,6,7,8-HpCDD	53.8			39:16	1.07	
OCDD	693			43:12	0.85	
2,3,7,8--TCDF	ND	0.497				
1,2,3,7,8-PeCDF	0.456			32:51	1.33	A
2,3,4,7,8-PeCDF	0.764			33:27	1.36	A
1,2,3,4,7,8-HxCDF	0.992			35:25	1.31	A
1,2,3,6,7,8-HxCDF	0.649			35:30	1.35	A
2,3,4,6,7,8-HxCDF	0.834			35:58	1.18	A
1,2,3,7,8,9-HxCDF	0.544			36:42	1.12	A
1,2,3,4,6,7,8-HpCDF	44.2			38:05	1.02	
1,2,3,4,7,8,9-HpCDF	ND	0.741				
OCDF	50.2			43:28	0.79	
Total TCDDs	3.20		4.65			
Total PeCDDs	2.71		11.0			
Total HxCDDs	21.0		27.1			
Total HpCDDs	256					
Total TCDFs	1.62					
Total PeCDFs	4.86					
Total HxCDFs	22.8					
Total HpCDFs	88.3					
ITEF TEQ (ND=0)	2.92		2.92			
ITEF TEQ (ND=½)	3.18		3.18			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-14DF SWP Log #17432	Matrix:	Solid
		Weight / Volume:	02.37 Grams
Laboratory Information		Solids / Lipids:	96.2 %
		Original pH :	NA
Project ID:	G440-5	Batch ID:	WG5258
Sample ID:	13795		
		Filename:	a13feb01a-9
Collection Date/Time:	25-Jan-01 16:45	Retchk:	a13feb01a-1
Receipt Date:	26-Jan-01	Begin ConCal:	a13feb01a-1
Extraction Date:	08-Feb-01		
Analysis Date:	13-Feb-01	Initial Cal:	m1613-052699m

Sample Information

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Method 1613

SD-14DF SWP Log #17432

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.63	81.6	30:28	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.53	76.6	33:37	1.57	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.55	77.4	36:05	1.16	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	1.89	94.6	36:10	1.16	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.55	77.6	39:16	1.05	
$^{13}C_{12}$-OCDD	4	2.84	70.9	43:11	0.8	
$^{13}C_{12}$-2,3,7,8-TCDF	2	1.89	94.6	29:32	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.68	84.2	32:51	1.75	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	1.78	89.0	33:26	1.71	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.62	81.2	35:24	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.81	90.4	35:30	0.49	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.67	83.5	35:58	0.49	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	1.94	97.2	36:41	0.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.82	91.1	38:05	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	1.92	96.1	39:53	0.47	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.67	83.3	30:29		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:45	0.8	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:58	0.49	

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-14DF SWP Log #17432		

Sample Information

Matrix:	Solid	
Weight / Volume:	02.37	Grams
Solids / Lipids:	96.2	%
Original pH :	NA	

Laboratory Information

Project ID:	G440-5		Batch ID:	WG5258
Sample ID:	13795			
			Filename:	a13feb01a-9
Collection Date/Time:	25-Jan-01	16:45	Retchk:	a13feb01a-1
Receipt Date:	26-Jan-01		Begin ConCal:	a13feb01a-1
Extraction Date:	08-Feb-01			
Analysis Date:	13-Feb-01		Initial Cal:	m1613-052699m

Analyzed by: HMP
Date: 19Feb01

Reviewed by: CW
Date: 2/19/01

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Method 1613

SD-06DF SWP Log #17433

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	4.88				
1,2,3,7,8-PeCDD	9.42			33:39	1.71	A
1,2,3,4,7,8-HxCDD	47.0			36:09	1.18	
1,2,3,6,7,8-HxCDD	463			36:13	1.2	
1,2,3,7,8,9-HxCDD	154			36:27	1.25	
1,2,3,4,6,7,8-HpCDD	8440			39:19	1.06	
OCDD	92900			43:15	0.87	E
2,3,7,8--TCDF	ND	11.2				
1,2,3,7,8-PeCDF	13.2			32:53	1.62	A
2,3,4,7,8-PeCDF	24.0			33:29	1.46	A
1,2,3,4,7,8-HxCDF	159			35:27	1.21	
1,2,3,6,7,8-HxCDF	40.6			35:32	1.18	
2,3,4,6,7,8-HxCDF	81.6			36:00	1.10	
1,2,3,7,8,9-HxCDF	67.0			36:45	1.16	
1,2,3,4,6,7,8-HpCDF	16700			38:07	1.03	
1,2,3,4,7,8,9-HpCDF	161			39:54	1.16	
OCDF	15000			43:31	0.86	
Total TCDDs	ND	4.88				
Total PeCDDs	239		261			Q
Total HxCDDs	5190					
Total HpCDDs	49400					
Total TCDFs	31.8					
Total PeCDFs	162		172			Q
Total HxCDFs	6930					
Total HpCDFs	31500					
ITEF TEQ (ND=0)	479		479			
ITEF TEQ (ND=½)	482		482			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-06DF SWP Log #17433		

Laboratory Information

Project ID:	G440-5		
Sample ID:	13796R		
Collection Date/Time:	25-Jan-01	17:05	
Receipt Date:	26-Jan-01		
Extraction Date:	14-Feb-01		
Analysis Date:	15-Feb-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	01.02	Grams
Solids / Lipids:	75.2	%
Original pH :	NA	
Batch ID:	WG5272	
Filename:	a15feb01a-10	
Retchk:	a15feb01a-1	
Begin ConCal:	a15feb01a-1	
Initial Cal:	m1613-052699m	

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Method 1613

SD-06DF SWP Log #17433

Southern Wood Piedmont

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Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	0.47	23.3	30:29	0.81	#
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.63	81.7	33:39	1.56	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.77	88.7	36:07	1.33	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	1.76	88.1	36:13	1.15	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.57	78.5	39:18	1.08	
$^{13}C_{12}$-OCDD	4	3.12	78.0	43:14	0.89	
$^{13}C_{12}$-2,3,7,8-TCDF	2	0.13	6.6	29:33	0.8	#
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.96	97.8	32:52	1.6	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	1.93	96.4	33:27	1.62	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.72	85.9	35:26	0.51	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.72	85.9	35:32	0.52	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.63	81.6	36:00	0.52	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	1.93	96.7	36:44	0.52	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.80	89.8	38:07	0.48	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	1.84	92.1	39:54	0.48	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.19	23.1	30:31		#
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:46	0.81	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			36:00	0.52	

Client Information

Project Name: SWP-Wilmington

Sample ID: SD-06DF SWP Log #17433

Laboratory Information

Project ID: G440-5

Sample ID: 13796R

Collection Date/Time: 25-Jan-01 17:05

Receipt Date: 26-Jan-01

Extraction Date: 14-Feb-01

Analysis Date: 15-Feb-01

Sample Information

Matrix: Solid

Weight / Volume: 01.02 Grams

Solids / Lipids: 75.2 %

Original pH : NA

Batch ID: WG5272

Filename: a15feb01a-10

Retchk: a15feb01a-1

Begin ConCal: a15feb01a-1

Initial Cal: m1613-052699m

Analyzed by: HMP

Date: 02Mar01

Reviewed by: [illegible]

Date: 3/2/01

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Method 1613

SD-13DF SWP Log #17434

Southern Wood Piedmont

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Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.575				
1,2,3,7,8-PeCDD	0.558			33:38	1.33	A
1,2,3,4,7,8-HxCDD	0.908			36:05	1.09	A
1,2,3,6,7,8-HxCDD	1.77			36:10	1.27	A
1,2,3,7,8,9-HxCDD	1.09			36:25	1.36	A
1,2,3,4,6,7,8-HpCDD	61.5			39:16	1.01	
OCDD	5120			43:13	0.86	
2,3,7,8--TCDF	ND	0.381				
1,2,3,7,8-PeCDF	ND	0.225				
2,3,4,7,8-PeCDF	0.372			33:27	1.56	A
1,2,3,4,7,8-HxCDF	0.448			35:24	1.25	A
1,2,3,6,7,8-HxCDF	0.481			35:30	1.15	A
2,3,4,6,7,8-HxCDF	0.612			35:58	1.15	A
1,2,3,7,8,9-HxCDF	ND	0.357				
1,2,3,4,6,7,8-HpCDF	7.63			38:05	1.06	A
1,2,3,4,7,8,9-HpCDF	ND	0.710				
OCDF	20.6			43:28	0.82	A
Total TCDDs	ND	1.86				
Total PeCDDs	2.77					
Total HxCDDs	14.6		19.1			
Total HpCDDs	180					
Total TCDFs	ND	0.381				
Total PeCDFs	0.372					
Total HxCDFs	6.11					
Total HpCDFs	21.1					
ITEF TEQ (ND=0)	6.83		6.83			
ITEF TEQ (ND=½)	7.16		7.16			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-13DF SWP Log #17434		

Laboratory Information

Project ID:	G440-5		
Sample ID:	13797		
Collection Date/Time:	25-Jan-01	17:30	
Receipt Date:	26-Jan-01		
Extraction Date:	08-Feb-01		
Analysis Date:	14-Feb-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	02.22	Grams
Solids / Lipids:	82.4	%
Original pH :	NA	
Batch ID:	WG5258	
Filename:	a13feb01a-11	
Retchk:	a13feb01a-1	
Begin ConCal:	a13feb01a-1	
Initial Cal:	m1613-052699m	

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Method 1613

SD-13DF SWP Log #17434

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.83	91.4	30:28	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.79	89.3	33:37	1.56	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.85	92.7	36:05	1.16	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.15	107.5	36:10	1.14	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.89	94.4	39:16	1.04	
$^{13}C_{12}$-OCDD	4	3.88	96.9	43:11	0.82	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.16	107.8	29:32	0.82	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.96	98.2	32:51	1.73	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.05	102.5	33:26	1.7	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.99	99.3	35:24	0.50	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.14	106.8	35:30	0.49	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.97	98.7	35:58	0.49	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.18	109.0	36:41	0.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.22	111.0	38:05	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.34	117.1	39:53	0.47	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.74	92.5	30:29		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:45	0.81	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:58	0.49	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-13DF SWP Log #17434

Laboratory Information

Project ID: G440-5
Sample ID: 13797

Collection Date/Time: 25-Jan-01 17:30
Receipt Date: 26-Jan-01
Extraction Date: 08-Feb-01
Analysis Date: 14-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 02.22 Grams
Solids / Lipids: 82.4 %
Original pH : NA
Batch ID: WG5258

Filename: a13feb01a-11
Retchk: a13feb01a-1
Begin ConCal: a13feb01a-1

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 19Feb01

Reviewed by: [illegible]
Date: 2/19/01

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Method 1613

SD-13DF-Dup

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.350				
1,2,3,7,8-PeCDD	ND	0.406				
1,2,3,4,7,8-HxCDD	0.651			36:05	1.08	A
1,2,3,6,7,8-HxCDD	EMPC	0.456	1.42	36:10	1.05	
1,2,3,7,8,9-HxCDD	0.860			36:24	1.29	A
1,2,3,4,6,7,8-HpCDD	65.7			39:16	1.08	
OCDD	3730			43:12	0.86	
2,3,7,8--TCDF	ND	0.274				
1,2,3,7,8-PeCDF	ND	0.213				
2,3,4,7,8-PeCDF	EMPC	0.201	0.384	33:27	1.04	
1,2,3,4,7,8-HxCDF	0.442			35:25	1.09	A
1,2,3,6,7,8-HxCDF	0.465			35:30	1.18	A
2,3,4,6,7,8-HxCDF	EMPC	0.289	0.721	35:58	1.05	
1,2,3,7,8,9-HxCDF	ND	0.336				
1,2,3,4,6,7,8-HpCDF	9.18			38:05	0.94	A
1,2,3,4,7,8,9-HpCDF	ND	0.723				
OCDF	25.4			43:28	0.83	A
Total TCDDs	ND	2.00				
Total PeCDDs	0.848					
Total HxCDDs	20.9		23.6			
Total HpCDDs	237					
Total TCDFs	ND	0.274				
Total PeCDFs	ND	0.207	0.384			
Total HxCDFs	5.65		6.74			
Total HpCDFs	26.0					
ITEF TEQ (ND=0)	4.75		5.15			
ITEF TEQ (ND=½)	5.15		5.47			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-13DF-Dup		

Laboratory Information

Project ID:	G440-5		
Sample ID:	13798		
Collection Date/Time:	25-Jan-01	17:30	
Receipt Date:	26-Jan-01		
Extraction Date:	08-Feb-01		
Analysis Date:	14-Feb-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	02.15	Grams
Solids / Lipids:	80.0	%
Original pH :	NA	
Batch ID:	WG5258	
Filename:	a13feb01a-12	
Retchk:	a13feb01a-1	
Begin ConCal:	a13feb01a-1	
Initial Cal:	m1613-052699m	

Method 1613

SD-13DF-Dup

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.74	87.1	30:28	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.68	83.8	33:37	1.59	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.80	89.8	36:05	1.15	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.05	102.6	36:10	1.14	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.85	92.7	39:16	1.04	
$^{13}C_{12}$-OCDD	4	3.59	89.8	43:12	0.81	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.04	102.0	29:32	0.82	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.82	91.2	32:51	1.71	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	1.96	98.0	33:26	1.67	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.83	91.7	35:24	0.48	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.03	101.7	35:30	0.48	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.91	95.5	35:58	0.49	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.15	107.4	36:41	0.49	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.10	105.2	38:05	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.24	111.9	39:53	0.47	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.65	81.8	30:29		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:45	0.81	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:58	0.49	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-13DF-Dup

Laboratory Information

Project ID: G440-5
Sample ID: 13798

Collection Date/Time: 25-Jan-01 17:30
Receipt Date: 26-Jan-01
Extraction Date: 08-Feb-01
Analysis Date: 14-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 02.15 Grams
Solids / Lipids: 80.0 %
Original pH : NA
Batch ID: WG5258

Filename: a13feb01a-12
Retchk: a13feb01a-1
Begin ConCal: a13feb01a-1

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 17Feb01

Reviewed by: [illegible]
Date: 2/19/01

G9L

Method 1613

SD-17DF SWP Log #17435

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.379				
1,2,3,7,8-PeCDD	ND	0.356				
1,2,3,4,7,8-HxCDD	ND	0.277				
1,2,3,6,7,8-HxCDD	ND	0.282				
1,2,3,7,8,9-HxCDD	ND	0.257				
1,2,3,4,6,7,8-HpCDD	4.02			39:16	1.09	A
OCDD	54.1			43:11	0.87	
2,3,7,8--TCDF	ND	0.235				
1,2,3,7,8-PeCDF	0.363			32:51	1.78	A
2,3,4,7,8-PeCDF	0.461			33:27	1.51	A
1,2,3,4,7,8-HxCDF	0.402			35:24	1.08	A
1,2,3,6,7,8-HxCDF	0.373			35:30	1.06	A
2,3,4,6,7,8-HxCDF	0.432			35:58	1.28	A
1,2,3,7,8,9-HxCDF	ND	0.262				
1,2,3,4,6,7,8-HpCDF	2.70			38:05	1.08	A
1,2,3,4,7,8,9-HpCDF	ND	0.332				
OCDF	EMPC	0.591	2.39	43:28	0.81	
Total TCDDs	ND	1.69				
Total PeCDDs	ND	2.08				
Total HxCDDs	ND	2.86	1.56			
Total HpCDDs	11.1					
Total TCDFs	ND	0.235				
Total PeCDFs	0.824					
Total HxCDFs	1.88					
Total HpCDFs	4.99					
ITEF TEQ (ND=0)	0.491		0.493			
ITEF TEQ (ND=½)	0.837		0.839			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-17DF SWP Log #17435		

Sample Information

Matrix:	Solid	
Weight / Volume:	02.12	Grams
Solids / Lipids:	96.1	%
Original pH :	NA	
Batch ID:	WG5258	
Filename:	a13feb01a-13	
Retchk:	a13feb01a-1	
Begin ConCal:	a13feb01a-1	
Initial Cal:	m1613-052699m	

Laboratory Information

Project ID:	G440-5	
Sample ID:	13799	
Collection Date/Time:	25-Jan-01	18:10
Receipt Date:	26-Jan-01	
Extraction Date:	08-Feb-01	
Analysis Date:	14-Feb-01	

Method 1613

SD-17DF SWP Log #17435

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.92	96.2	30:28	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.92	96.0	33:37	1.56	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.95	97.6	36:05	1.17	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.26	112.9	36:10	1.17	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.95	97.5	39:16	1.04	
$^{13}C_{12}$-OCDD	4	3.82	95.4	43:11	0.82	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.29	114.4	29:32	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.12	106.1	32:51	1.72	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.20	109.8	33:26	1.68	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.96	98.2	35:24	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.16	108.0	35:30	0.5	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	2.03	101.4	35:57	0.5	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.31	115.5	36:41	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.21	110.3	38:05	0.48	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.39	119.6	39:53	0.47	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.78	97.0	30:29		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:45	0.8	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:57	0.5	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-17DF SWP Log #17435

Laboratory Information

Project ID: G440-5
Sample ID: 13799

Collection Date/Time: 25-Jan-01 18:10
Receipt Date: 26-Jan-01
Extraction Date: 08-Feb-01
Analysis Date: 14-Feb-01

Sample Information

Matrix: Solid
Weight / Volume: 02.12 Grams
Solids / Lipids: 96.1 %
Original pH : NA
Batch ID: WG5258

Filename: a13feb01a-13
Retchk: a13feb01a-1
Begin ConCal: a13feb01a-1

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 17Feb01

Reviewed by: [illegible]
Date: 2/19/01

Method 1613 - QC BLANK Results

LMB

Analytical Data Summary Sheet

Analyte	Amount (ng/L)	EDL (ng/L)	EMPC (ng/L)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.0027				
1,2,3,7,8-PeCDD	ND	0.0015				
1,2,3,4,7,8-HxCDD	ND	0.0019				
1,2,3,6,7,8-HxCDD	ND	0.0020				
1,2,3,7,8,9-HxCDD	ND	0.0018				
1,2,3,4,6,7,8-HpCDD	ND	0.0031				
OCDD	ND	0.0065				
2,3,7,8--TCDF	ND	0.0019				
1,2,3,7,8-PeCDF	ND	0.0009				
2,3,4,7,8-PeCDF	EMPC	0.0009	0.0017	33:27	2.04	
1,2,3,4,7,8-HxCDF	0.0021			35:25	1.16	A
1,2,3,6,7,8-HxCDF	EMPC	0.0011	0.0020	35:31	1.05	
2,3,4,6,7,8-HxCDF	ND	0.0015				
1,2,3,7,8,9-HxCDF	ND	0.0017				
1,2,3,4,6,7,8-HpCDF	ND	0.0013				
1,2,3,4,7,8,9-HpCDF	ND	0.0020				
OCDF	ND	0.0043				
Total TCDDs	ND	0.0027				
Total PeCDDs	ND	0.0045				
Total HxCDDs	ND	0.0051				
Total HpCDDs	ND	0.0031				
Total TCDFs	ND	0.0019				
Total PeCDFs	ND	0.0009	0.0017			
Total HxCDFs	0.0021		0.0041			
Total HpCDFs	ND	0.0016				
ITEF TEQ (ND=0)	0.0002		0.0012			
ITEF TEQ (ND=½)	0.0028		0.0036			

Laboratory Information

Sample ID: WG5240-1

Extraction Date: 01-Feb-01

Analysis Date: 06-Feb-01

Sample Information

Matrix: Aqueous

Weight / Volume: 500 mL

Solids / Lipids: NA

Original pH : 5

Batch ID: WG5240

Filename: a05feb01a_2-2

Retchk: a05feb01a-15

Begin ConCal: a05feb01a-15

Initial Cal: m1613-052699m

Method 1613 - QC BLANK Results

LMB

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	1	0.72	72.2	30:29	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	1	0.72	72.1	33:38	1.57	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	1	0.90	90.1	36:05	1.27	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1	0.98	98.2	36:10	1.28	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	1	0.64	64.3	39:15	1.05	
$^{13}C_{12}$-OCDD	2	0.93	46.3	43:11	0.84	
$^{13}C_{12}$-2,3,7,8-TCDF	1	0.89	88.6	29:32	0.82	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1	0.84	84.2	32:51	1.57	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1	0.90	89.5	33:26	1.56	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1	0.91	90.5	35:24	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1	0.97	97.2	35:30	0.49	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1	0.88	87.8	35:58	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1	0.94	94.0	36:41	0.52	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1	0.85	85.4	38:05	0.49	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1	0.76	75.7	39:53	0.48	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.4	0.32	79.5	30:30		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:46	0.81	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:58	0.51	

Laboratory Information

Sample ID: WG5240-1

Extraction Date: 01-Feb-01
Analysis Date: 06-Feb-01

Analyzed by: HMP
Date: 07Feb01

Sample Information

Matrix: Aqueous
Weight / Volume: 500 mL
Solids / Lipids: NA
Original pH : 5
Batch ID: WG5240

Filename: a05feb01a_2-2
Retchk: a05feb01a-15
Begin ConCal: a05feb01a-15

Initial Cal: m1613-052699m

Reviewed by: [illegible]
Date: 2/8/01

Method 1613 - QC BLANK Results

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SOUTHERN

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.104				
1,2,3,7,8-PeCDD	ND	0.0878				
1,2,3,4,7,8-HxCDD	ND	0.125				
1,2,3,6,7,8-HxCDD	ND	0.130				
1,2,3,7,8,9-HxCDD	ND	0.117				
1,2,3,4,6,7,8-HpCDD	0.298			39:17	0.99	A
OCDD	0.610			43:12	0.94	A
2,3,7,8--TCDF	ND	0.0650				
1,2,3,7,8-PeCDF	EMPC	0.0406	0.0880	32:52	1.15	
2,3,4,7,8-PeCDF	EMPC	0.0360	0.0720	33:27	1.3	
1,2,3,4,7,8-HxCDF	ND	0.0626				
1,2,3,6,7,8-HxCDF	ND	0.0594				
2,3,4,6,7,8-HxCDF	ND	0.0724				
1,2,3,7,8,9-HxCDF	ND	0.0782				
1,2,3,4,6,7,8-HpCDF	ND	0.101				
1,2,3,4,7,8,9-HpCDF	ND	0.152				
OCDF	ND	0.184				
Total TCDDs	ND	0.356				
Total PeCDDs	ND	0.460				
Total HxCDDs	ND	0.496				
Total HpCDDs	0.298					
Total TCDFs	ND	0.0650				
Total PeCDFs	ND	0.0382	0.160			
Total HxCDFs	ND	0.0680				
Total HpCDFs	ND	0.124				
ITEF TEQ (ND=0)	0.0036		0.0440			
ITEF TEQ (ND=½)	0.125		0.155			

Laboratory Information

Sample ID: WG5245-1

Extraction Date: 02-Feb-01
Analysis Date: 06-Feb-01

Sample Information

Matrix:	Soil	
Weight / Volume:	10.00	Grams
Solids / Lipids:	100	%
Original pH :	NA	
Batch ID:	WG5245	
Filename:	a06feb01a-3	
Retchk:	a06feb01a-1	
Begin ConCal:	a06feb01a-1	
Initial Cal:	m1613-052699m	

Method 1613 - QC BLANK Results

LMB

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.61	80.3	30:29	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.44	72.2	33:38	1.56	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.59	79.7	36:05	1.11	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	1.83	91.4	36:11	1.09	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.49	74.7	39:16	1.05	
$^{13}C_{12}$-OCDD	4	2.87	71.8	43:12	0.83	
$^{13}C_{12}$-2,3,7,8-TCDF	2	1.87	93.7	29:33	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.63	81.5	32:51	1.62	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	1.77	88.6	33:27	1.58	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.73	86.5	35:25	0.50	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.93	96.5	35:30	0.51	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.75	87.6	35:58	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	1.94	97.1	36:41	0.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.81	90.5	38:05	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	1.81	90.5	39:53	0.47	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.61	75.6	30:31		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:46	0.81	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:58	0.51	

Laboratory Information

Sample ID: WG5245-1

Extraction Date: 02-Feb-01
Analysis Date: 06-Feb-01

Analyzed by: HMP
Date: 07Feb01

Sample Information

Matrix: Soil
Weight / Volume: 10.00 Grams
Solids / Lipids: 100 %
Original pH : NA
Batch ID: WG5245

Filename: a06feb01a-3
Retchk: a06feb01a-1
Begin ConCal: a06feb01a-1

Initial Cal: m1613-052699m

Reviewed by: [illegible]
Date: 2/7/01

Method 1613 - QC BLANK Results

LMB

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.0770				
1,2,3,7,8-PeCDD	ND	0.0598				
1,2,3,4,7,8-HxCDD	ND	0.0728				
1,2,3,6,7,8-HxCDD	ND	0.0734				
1,2,3,7,8,9-HxCDD	ND	0.0672				
1,2,3,4,6,7,8-HpCDD	0.712			39:16	1.06	A
OCDD	4.40			43:12	0.85	A
2,3,7,8--TCDF	ND	0.0558				
1,2,3,7,8-PeCDF	EMPC	0.0272	0.0500	32:51	1.17	
2,3,4,7,8-PeCDF	0.0580			33:27	1.41	A
1,2,3,4,7,8-HxCDF	ND	0.0442				
1,2,3,6,7,8-HxCDF	ND	0.0422				
2,3,4,6,7,8-HxCDF	ND	0.0518				
1,2,3,7,8,9-HxCDF	ND	0.0578				
1,2,3,4,6,7,8-HpCDF	0.184			38:05	0.96	A
1,2,3,4,7,8,9-HpCDF	ND	0.136				
OCDF	EMPC	0.122	0.228	43:28	0.93	
Total TCDDs	ND	0.342				
Total PeCDDs	ND	0.450				
Total HxCDDs	ND	0.612	0.164			
Total HpCDDs	0.712		2.44			
Total TCDFs	ND	0.0558				
Total PeCDFs	0.0580		0.108			
Total HxCDFs	ND	0.0490	0.332			
Total HpCDFs	0.398					
ITEF TEQ (ND=0)	0.0424		0.0451			
ITEF TEQ (ND=½)	0.120		0.122			

Laboratory Information

Sample ID: WG5258-1

Extraction Date: 08-Feb-01
Analysis Date: 13-Feb-01

Sample Information

Matrix: Soil
Weight / Volume: 10.00 Grams
Solids / Lipids: 100 %
Original pH : NA
Batch ID: WG5258

Filename: a12feb01a_2-2
Retchk: a12feb01a-15
Begin ConCal: a12feb01a-15

Initial Cal: m1613-052699m

Method 1613 - QC BLANK Results

LMB

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.88	93.9	30:28	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.86	92.9	33:38	1.55	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.94	96.8	36:05	1.18	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.24	112.1	36:10	1.17	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.92	95.8	39:16	1.08	
$^{13}C_{12}$-OCDD	4	3.94	98.6	43:12	0.86	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.29	114.4	29:32	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	2.20	110.1	32:51	1.56	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.24	112.2	33:26	1.6	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	2.00	100.1	35:24	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.18	109.2	35:30	0.5	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	2.00	99.8	35:57	0.5	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.29	114.4	36:41	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	2.22	110.9	38:05	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.39	119.6	39:53	0.48	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.77	96.4	30:30		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:45	0.81	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:57	0.5	

Laboratory Information

Sample ID: WG5258-1

Extraction Date: 08-Feb-01
Analysis Date: 13-Feb-01

Analyzed by: HMP
Date: 11Feb01

Sample Information

Matrix: Soil
Weight / Volume: 10.00 Grams
Solids / Lipids: 100 %
Original pH : NA
Batch ID: WG5258

Filename: a12feb01a_2-2
Retchk: a12feb01a-15
Begin ConCal: a12feb01a-15

Initial Cal: m1613-052699m

Reviewed by: [illegible]
Date: 2/19/01

Method 1613 - QC BLANK Results

LMB

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.103				
1,2,3,7,8-PeCDD	ND	0.0908				
1,2,3,4,7,8-HxCDD	ND	0.0972				
1,2,3,6,7,8-HxCDD	ND	0.0962				
1,2,3,7,8,9-HxCDD	ND	0.0884				
1,2,3,4,6,7,8-HpCDD	ND	0.173				
OCDD	EMPC	0.364	0.760	43:11	1.14	
2,3,7,8--TCDF	ND	0.0556				
1,2,3,7,8-PeCDF	ND	0.0480				
2,3,4,7,8-PeCDF	EMPC	0.0434	0.0760	33:27	1.29	
1,2,3,4,7,8-HxCDF	ND	0.0592				
1,2,3,6,7,8-HxCDF	ND	0.0556				
2,3,4,6,7,8-HxCDF	ND	0.0644				
1,2,3,7,8,9-HxCDF	ND	0.0798				
1,2,3,4,6,7,8-HpCDF	EMPC	0.0716	0.0840	38:05	1.24	
1,2,3,4,7,8,9-HpCDF	ND	0.0974				
OCDF	ND	0.237				
Total TCDDs	ND	0.310				
Total PeCDDs	ND	0.450				
Total HxCDDs	ND	0.462				
Total HpCDDs	ND	0.173				
Total TCDFs	ND	0.0556				
Total PeCDFs	ND	0.0456	0.0760			
Total HxCDFs	ND	0.0644				
Total HpCDFs	ND	0.0836	0.0840			
ITEF TEQ (ND=0)	0.0000		0.0396			
ITEF TEQ (ND=½)	0.118		0.146			

Laboratory Information

Sample ID: WG5272-1

Extraction Date: 14-Feb-01

Analysis Date: 15-Feb-01

Sample Information

Matrix:	Soil	
Weight / Volume:	10.00	Grams
Solids / Lipids:	100	%
Original pH :	NA	
Batch ID:	WG5272	
Filename:	a15feb01a-7	
Retchk:	a15feb01a-1	
Begin ConCal:	a15feb01a-1	
Initial Cal:	m1613-052699m	

Method 1613 - QC BLANK Results

LMB

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Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.72	85.8	30:28	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.52	76.1	33:38	1.54	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.56	78.2	36:05	1.25	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	1.96	98.2	36:10	1.24	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.47	73.7	39:16	1.08	
$^{13}C_{12}$-OCDD	4	2.38	59.6	43:12	0.83	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.02	101.2	29:32	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.77	88.3	32:51	1.63	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	1.85	92.4	33:26	1.62	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.55	77.3	35:24	0.52	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.89	94.4	35:30	0.53	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.68	84.0	35:58	0.52	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	1.79	89.6	36:41	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.70	85.1	38:05	0.47	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	1.80	90.1	39:54	0.47	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.66	82.9	30:29		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:45	0.82	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:58	0.52	

Laboratory Information

Sample ID: WG5272-1

Extraction Date: 14-Feb-01

Analysis Date: 15-Feb-01

Analyzed by: HMP

Date: 02Mar01

Sample Information

Matrix: Soil

Weight / Volume: 10.00 Grams

Solids / Lipids: 100 %

Original pH : NA

Batch ID: WG5272

Filename: a15feb01a-7

Retchk: a15feb01a-1

Begin ConCal: a15feb01a-1

Initial Cal: m1613-052699m

Reviewed by: [illegible]

Date: 3/2/01

Analytical Results
for
Ongoing Precision Result (OPR)

Analyte	Spiked pg/ul	AMT pg/ul	REC %	Range pg/ul Lower	Range pg/ul Upper	Flag
2,3,7,8-TCDD	5.00	5.28	106	3.4	7.9	
1,2,3,7,8-PeCDD	12.5	13.9	111	8.8	17.8	
1,2,3,4,7,8-HxCDD	12.5	12.3	98.3	8.8	20.5	
1,2,3,6,7,8-HxCDD	12.5	13.4	107	9.5	16.7	
1,2,3,7,8,9-HxCDD	12.5	12.2	97.2	8.0	20.3	
1,2,3,4,6,7,8-HpCDD	12.5	15.9	127	8.8	17.5	
OCDD	25.0	29.5	118	19.5	36.0	
2,3,7,8-TCDF	5.00	5.44	109	3.8	7.9	
1,2,3,7,8-PeCDF	12.5	13.8	110	10.0	16.8	
2,3,4,7,8-PeCDF	12.5	12.8	102	8.5	20.0	
1,2,3,4,7,8-HxCDF	12.5	14.4	115	9.0	16.8	
1,2,3,6,7,8-HxCDF	12.5	14.3	114	10.5	16.3	
2,3,4,6,7,8-HxCDF	12.5	15.1	121	8.8	19.5	
1,2,3,7,8,9-HxCDF	12.5	13.0	104	9.8	16.3	
1,2,3,4,6,7,8-HpCDF	12.5	13.5	108	10.3	15.3	
1,2,3,4,7,8,9-HpCDF	12.5	12.8	103	9.8	17.3	
OCDF	25.0	29.2	117	18.5	36.5	

= Outside range limits
* = Ion Ratio Out

QC Information

OPR Project No:	WG5240
Extraction Date:	01-Feb-01
Analysis Date:	6-FEB-01
Method:	1613

Sample Information

Matrix:	Aqueous

File Information

OPR Filename :	a05feb01a_2-1
Retchk:	a05feb01a-15
Begin ConCal:	a05feb01a-15
Initial Cal:	m1613-052699m

Analytical Results
for
Ongoing Precision Result (OPR)

Labeled Standard	Spiked pg/ul	AMT pg/ul	REC %	Range pg/ul Lower	Range pg/ul Upper	Flag
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	50.0	31.8	63.6	10	87.5	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	50.0	34.2	68.4	10.5	113.5	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	50.0	48.0	95.9	10.5	96.5	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	50.0	51.2	102	12.5	81.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	50.0	33.7	67.4	13	83	
$^{13}C_{12}$-OCDD	100	47.3	47.3	13	198.5	
$^{13}C_{12}$-2,3,7,8-TCDF	50.0	39.2	78.4	11	76	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	50.0	39.2	78.5	10.5	96	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	50.0	42.6	85.2	6.5	164	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	50.0	47.4	94.7	9.5	101	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	50.0	50.2	100	10.5	79.5	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	50.0	47.8	95.6	22	88	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	50.0	47.5	95.1	8.5	102.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	50.0	43.3	86.6	10.5	79	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	50.0	38.6	77.2	10	93	
Cleanup Standards						
$^{37}C_{14}$-2,3,7,8-TCDD	20.0	15.2	75.8	6.2	38.2	

QC Information

OPR Project No: WG5240
Extraction Date: 01-Feb-01
Analysis Date: 6-FEB-01
Method: 1613

File Information

OPR Filename : a05feb01a_2-1
Retchk: a05feb01a-15
Begin ConCal: a05feb01a-15
Initial Cal: m1613-052699m

Sample Information

Matrix: Aqueous

Reviewed by: [signature]

Date Reviewed: 2/7/01

Analytical Results
for
Ongoing Precision Result (OPR)

Analyte	Spiked	AMT	REC	Range pg/ul		Flag
	pg/ul	pg/ul	%	Lower	Upper	
2,3,7,8-TCDD	10.0	9.05	90.5	6.7	15.8	
1,2,3,7,8-PeCDD	25.0	23.8	95.3	17.5	35.5	
1,2,3,4,7,8-HxCDD	25.0	22.6	90.5	17.5	41.0	
1,2,3,6,7,8-HxCDD	25.0	24.4	97.6	19.0	33.4	
1,2,3,7,8,9-HxCDD	25.0	23.3	93.2	16.0	40.5	
1,2,3,4,6,7,8-HpCDD	25.0	28.3	113	17.5	35.0	
OCDD	50.0	54.4	109	39.0	72.0	
2,3,7,8-TCDF	10.0	9.46	94.6	7.5	15.8	
1,2,3,7,8-PeCDF	25.0	24.2	96.9	20.0	33.5	
2,3,4,7,8-PeCDF	25.0	23.7	94.8	17.0	40.0	
1,2,3,4,7,8-HxCDF	25.0	24.8	99.0	18.0	33.5	
1,2,3,6,7,8-HxCDF	25.0	24.8	99.4	21.0	32.5	
2,3,4,6,7,8-HxCDF	25.0	26.2	105	17.5	39.0	
1,2,3,7,8,9-HxCDF	25.0	22.5	90.2	19.5	32.5	
1,2,3,4,6,7,8-HpCDF	25.0	23.6	94.2	20.5	30.5	
1,2,3,4,7,8,9-HpCDF	25.0	22.0	88.0	19.5	34.5	
OCDF	50.0	47.3	94.6	37.0	73.0	

= Outside range limits
* = Ion Ratio Out

QC Information

OPR Project No:	WG5245
Extraction Date:	02-Feb-01
Analysis Date:	6-FEB-01
Method:	1613

File Information

OPR Filename :	a06feb01a-2
Retchk:	a06feb01a-1
Begin ConCal:	a06feb01a-1
Initial Cal:	m1613-052699m

Sample Information

Matrix: Soil

Analytical Results
for
Ongoing Precision Result (OPR)

Labeled Standard	Spiked pg/ul	AMT pg/ul	REC %	Range pg/ul Lower	Range pg/ul Upper	Flag
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	100	79.6	79.6	20	175	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	100	72.9	72.9	21	227	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	100	83.0	83.0	21	193	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	100	92.9	92.9	25	163	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	100	75.1	75.1	26	166	
$^{13}C_{12}$-OCDD	200	137	68.6	26	397	
$^{13}C_{12}$-2,3,7,8-TCDF	100	91.3	91.3	22	152	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	100	81.2	81.2	21	192	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	100	86.7	86.7	13	328	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	100	86.2	86.2	19	202	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	100	94.2	94.2	21	159	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	100	89.2	89.2	22	176	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	100	100	100	17	205	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	100	91.0	91.0	21	158	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	100	93.0	93.0	20	186	
Cleanup Standards						
$^{37}C_{14}$-2,3,7,8-TCDD	40.0	31.5	78.6	12.4	76.4	

QC Information

OPR Project No: WG5245
Extraction Date: 02-Feb-01
Analysis Date: 6-FEB-01
Method: 1613

File Information

OPR Filename : a06feb01a-2
Retchk: a06feb01a-1
Begin ConCal: a06feb01a-1
Initial Cal: m1613-052699m

Sample Information

Matrix: Soil

Reviewed by: [signature]

Date Reviewed: 2/7/01

Analytical Results
for
Ongoing Precision Result (OPR)

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Analyte	Spiked pg/ul	AMT pg/ul	REC %	Range pg/ul Lower	Range pg/ul Upper	Flag
2,3,7,8-TCDD	10.0	8.63	86.3	6.7	15.8	
1,2,3,7,8-PeCDD	25.0	22.4	89.7	17.5	35.5	
1,2,3,4,7,8-HxCDD	25.0	20.9	83.8	17.5	41.0	
1,2,3,6,7,8-HxCDD	25.0	22.0	88.0	19.0	33.4	
1,2,3,7,8,9-HxCDD	25.0	21.3	85.2	16.0	40.5	
1,2,3,4,6,7,8-HpCDD	25.0	25.7	103	17.5	35.0	
OCDD	50.0	49.1	98.2	39.0	72.0	
2,3,7,8-TCDF	10.0	8.86	88.6	7.5	15.8	
1,2,3,7,8-PeCDF	25.0	22.6	90.5	20.0	33.5	
2,3,4,7,8-PeCDF	25.0	21.4	85.4	17.0	40.0	
1,2,3,4,7,8-HxCDF	25.0	22.8	91.0	18.0	33.5	
1,2,3,6,7,8-HxCDF	25.0	22.9	91.4	21.0	32.5	
2,3,4,6,7,8-HxCDF	25.0	24.4	97.6	17.5	39.0	
1,2,3,7,8,9-HxCDF	25.0	20.5	82.2	19.5	32.5	
1,2,3,4,6,7,8-HpCDF	25.0	21.6	86.3	20.5	30.5	
1,2,3,4,7,8,9-HpCDF	25.0	20.1	80.2	19.5	34.5	
OCDF	50.0	45.2	90.4	37.0	73.0	

= Outside range limits
* = Ion Ratio Out

QC Information

OPR Project No:	WG5258
Extraction Date:	08-Feb-01
Analysis Date:	13-FEB-01
Method:	1613

Sample Information

Matrix:	Soil

File Information

OPR Filename :	a12feb01a_2-1
Retchk:	a12feb01a-15
Begin ConCal:	a12feb01a-15
Initial Cal:	m1613-052699m

Analytical Results
for
Ongoing Precision Result (OPR)

Labeled Standard	Spiked pg/ul	AMT pg/ul	REC %	Range pg/ul Lower	Range pg/ul Upper	Flag
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	100	70.1	70.1	20	175	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	100	69.4	69.4	21	227	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	100	71.5	71.5	21	193	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	100	81.6	81.6	25	163	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	100	72.3	72.3	26	166	
$^{13}C_{12}$-OCDD	200	143	71.3	26	397	
$^{13}C_{12}$-2,3,7,8-TCDF	100	87.0	87.0	22	152	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	100	82.4	82.4	21	192	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	100	85.1	85.1	13	328	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	100	73.6	73.6	19	202	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	100	82.4	82.4	21	159	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	100	74.7	74.7	22	176	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	100	86.3	86.3	17	205	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	100	82.8	82.8	21	158	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	100	90.6	90.6	20	186	
Cleanup Standards						
$^{37}C_{14}$-2,3,7,8-TCDD	40.0	27.7	69.3	12.4	76.4	

QC Information

OPR Project No: WG5258
Extraction Date: 08-Feb-01
Analysis Date: 13-FEB-01
Method: 1613

File Information

OPR Filename : a12feb01a_2-1
Retchk: a12feb01a-15
Begin ConCal: a12feb01a-15
Initial Cal: m1613-052699m

Sample Information

Matrix: Soil

Reviewed by: [illegible]

Date Reviewed: 2/16/01

Analytical Results
for
Ongoing Precision Result (OPR)

Analyte	Spiked pg/ul	AMT pg/ul	REC %	Range pg/ul Lower	Range pg/ul Upper	Flag
2,3,7,8-TCDD	10.0	8.31	83.1	6.7	15.8	
1,2,3,7,8-PeCDD	25.0	21.7	86.8	17.5	35.5	
1,2,3,4,7,8-HxCDD	25.0	20.0	79.9	17.5	41.0	
1,2,3,6,7,8-HxCDD	25.0	21.6	86.4	19.0	33.5	
1,2,3,7,8,9-HxCDD	25.0	21.1	84.5	16.0	40.5	
1,2,3,4,6,7,8-HpCDD	25.0	24.4	97.8	17.5	35.0	
OCDD	50.0	45.4	90.8	39.0	72.0	
2,3,7,8-TCDF	10.0	8.52	85.2	7.5	15.8	
1,2,3,7,8-PeCDF	25.0	22.0	87.9	20.0	33.5	
2,3,4,7,8-PeCDF	25.0	21.2	84.7	17.0	40.0	
1,2,3,4,7,8-HxCDF	25.0	22.3	89.1	18.0	33.5	
1,2,3,6,7,8-HxCDF	25.0	22.2	88.8	21.0	32.5	
2,3,4,6,7,8-HxCDF	25.0	23.8	95.0	17.5	39.0	
1,2,3,7,8,9-HxCDF	25.0	19.9	79.7	19.5	32.5	
1,2,3,4,6,7,8-HpCDF	25.0	20.7	82.7	20.5	30.5	
1,2,3,4,7,8,9-HpCDF	25.0	19.7	78.8	19.5	34.5	
OCDF	50.0	48.1	96.1	31.5	85.0	

= Outside range limits
* = Ion Ratio Out

QC Information

OPR Project No:	WG5272
Extraction Date:	14-Feb-01
Analysis Date:	15-FEB-01
Method:	1613

Sample Information

Matrix:	Soil

File Information

OPR Filename :	a15feb01a-6
Retchk:	a15feb01a-1
Begin ConCal:	a15feb01a-1
Initial Cal:	m1613-052699m

Analytical Results
for
Ongoing Precision Result (OPR)

Labeled Standard	Spiked pg/ul	AMT pg/ul	REC %	Range pg/ul Lower	Range pg/ul Upper	Flag
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	100	84.3	84.3	20	175	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	100	73.3	73.3	21	227	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	100	74.0	74.0	21	193	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	100	93.3	93.3	25	163	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	100	70.9	70.9	26	166	
$^{13}C_{12}$-OCDD	200	123	61.5	26	397	
$^{13}C_{12}$-2,3,7,8-TCDF	100	98.2	98.2	22	152	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	100	86.7	86.7	21	192	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	100	90.0	90.0	13	328	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	100	72.1	72.1	19	202	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	100	90.2	90.2	21	159	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	100	80.2	80.2	22	176	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	100	86.8	86.8	17	205	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	100	82.8	82.8	21	158	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	100	89.0	89.0	20	186	
Cleanup Standards						
$^{37}C_{14}$-2,3,7,8-TCDD	40.0	32.9	82.2	12.4	76.4	

QC Information

OPR Project No:	WG5272
Extraction Date:	14-Feb-01
Analysis Date:	15-FEB-01
Method:	1613

File Information

OPR Filename :	a15feb01a-6
Retchk:	a15feb01a-1
Begin ConCal:	a15feb01a-1
Initial Cal:	m1613-052699m

Sample Information

Matrix: Soil

Reviewed by: [signature]

Date Reviewed: 3/02/01

2627 Northcha[illegible]arkway SE, Wilmington, NC 28405
Phone: (910)-3[illegible] 1903 FAX: (910)-350-1557

Chain-of C[illegible]y Record & Analytical Request

COC# [illegible] GBK

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Contact: Greg Kurtz
Phone: 803-796-6240
P.O. No.:
Quote #:

Client: Southern Wood Piedmont
Address: P.O. Box 5447
Address: Spartanburg, SC
Address: 29304

Date: 1/26/01
T.A.T. (Std 21): Standard
Project ID: SWP-Wilmington
Job Number: 979007.A0-27

Report To: Sandra Watson
P.O. Box 5447
Spartanburg, SC 29304
Invoice To: Same

Sample ID	Date	Time	Matrix	Method: 1613 2378-TCDD	1613 2378-TCDD/F	1613 Tetra-Octa	8290 2378-TCDD	8290 2378-TCDD/F	8290 Tetra-Octa	8280 2378-TCDD	8280 2378-TCDD/F	8280 Appendix IX	8280 Tetra-Octa	Other	Comments
SD-13 SWP Log# 17417	1/25/01	7:30	Solid			X									* Wilmington Site Specific
SD-24 17418		7:50													Dioxin-Furan Constituent List
SD-23 17419		8:30													
SD-05 17420		8:50													
SD-38 17422		9:55													
SD-36 17423		10:40													
SD-37 17424		11:00													
SD-14 17425		11:25													
SD-19 17426		12:10													
Equip 12501 -----		13:00	Liquid												

Report: Full ☐ Summary ☒
EDD: No ☐ Yes ☒

Relinquished By	Date	Time	Received By	Date	Time	Temp	Sampled	Airbill #
Gregory B. Kurtz	1/26/01	1030	Julie Johnson	1/26/01	1030	walk on ice		

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PARADIGM ANALYTICAL LABORATORIES, INC.
2627 Northchase Parkway SE, Wilmington, NC 28405
Phone: (910)-[illegible] 1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC# GBK

Page 2 of 82

Contact: Greg Kuntz
Phone: 803-796-6240
P.O. No.:
Quote #:

Client: Southern Wood Piedmont
Address: P.O. Box 5447
Address: Spartanburg, SC
Address: 29304

Date: 1/26/01
T.A.T. (Std 21): Standard
Project ID: ~~979007.A0-27~~ SWP-Wilmington
Job Number: 979007.A0-27

Report To: Sandra Watson
P.O. Box 5447
Spartanburg, SC 29304
Invoice To: Same

Sample ID	Date	Time	Matrix	Method 1613 2378-TCDD	1613 2378-TCDD/F	1613 Tetra-Octa	8290 2378-TCDD	8290 2378-TCDD/F	8290 Tetra-Octa	8280 2378-TCDD	8280 2378-TCDD/F	8280 Appendix IX	8280 Tetra-Octa	Other	Comments
SD-18 SWP Log # 17427	1/25/01	13:20	Solid			X									* Wilmington Site Specific
SD-18-Dup -----		13:20													Dioxin-Furan Constituent List
SD-17 17428		13:45													
SD-16 17429		14:05													
SD-15 17430		14:30													
SS-14DF 17432		16:45													
SS-06DF 17433		17:05													
SS-13DF 17434		17:30													
SS-13DF-Dup -----		17:30													
SS-17DF 17435		18:10													

Report:
Full ☐
Summary ☒
EDD: No ☐
Yes ☒

Relinquished By	Date	Time	Received By	Date	Time	Temp	Sampled	Airbill #
Gregory B. Kuntz	1/26/01	1030	[illegible]	1/26/01	1030	warm on ice		

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ORIGINAL

G. Hunt
WPA → file

PARADIGM ANALYTICAL LABORATORIES, INC.
2627 Northchase Parkway S.E.
Wilmington, North Carolina 28405
(910) 350-1903
Fax (910) 350-1557

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Monday, March 12, 2001

Ms. Sandra Watson
Southern Wood Piedmont
591 Springfield Road
Spartanburg, SC 29304

Dear Ms. Watson:

Enclosed are the final results for the samples received by Paradigm Analytical Laboratories, Inc. on February 20, 2001 under your **Project Name "SWP-Wilmington"**. The samples were analyzed by Method **8290** following Paradigm's Standard Operating Procedures. Please see Page 2 of this report for the case narrative.

A summary data package has been provided.

No. of Samples Received:	**2 Solids**
Your Project Number:	**Not Provided**
PAL Project No.:	**G440-7**

We appreciate your business and look forward to working with you again. Please contact me if you have questions or need additional technical support.

Sincerely,

Christopher K. Cornwell

Christopher K. Cornwell
Assistant Director

PARADIGM ANALYTICAL LABORATORIES, INC.

Case Narrative
Paradigm Project G440-7

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Client Project No.:	Not Provided
Client Project Name:	SWP-Wilmington
No. of Samples Received:	2 Solids
No. of Samples Analyzed:	2
Method:	1613
No. of LMBs:	1
No. of OPRs:	1

- Data meet QA/QC requirements.

W.M. Larkins
Technical Director

March 12, 2001

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Table 1: Toxic Equivalency Factors

Analyte	World Health Organization	International-89	MADEP
2,3,7,8-TCDD	1	1	1
1,2,3,7,8-PeCDD	1	0.5	0.5
1,2,3,4,7,8-HxCDD	0.1	0.1	0.1
1,2,3,6,7,8-HxCDD	0.1	0.1	0.1
1,2,3,7,8,9-HxCDD	0.1	0.1	0.1
1,2,3,4,6,7,8-HpCDD	0.01	0.01	0.1
OCDD	0.0001	0.001	0.001
2,3,7,8-TCDF	0.1	0.1	0.1
1,2,3,7,8-PeCDF	0.05	0.05	0.5
2,3,4,7,8-PeCDF	0.5	0.5	0.5
1,2,3,4,7,8-HxCDF	0.1	0.1	0.1
1,2,3,6,7,8-HxCDF	0.1	0.1	0.1
2,3,4,6,7,8-HxCDF	0.1	0.1	0.1
1,2,3,7,8,9-HxCDF	0.1	0.1	0.1
1,2,3,4,6,7,8-HpCDF	0.01	0.01	0.1
1,2,3,4,7,8,9-HpCDF	0.01	0.01	0.1
OCDF	0.0001	0.001	0.001

Table 2. List of Qualifiers

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A	Amount detected is less than the Calibration Limit
B	Analyte was detected in the LMB at a level above the RL or EDL.
E	Amount detected is over the Method Calibration Limit
DPE	Denotes the presence of possible polychlorinated diphenylethers
EDL	"Estimated Detection Limit"
EMPC	"Estimated Maximum Possible Concentration"
ppt	Parts-per-trillion (pg/g; ng/L)
Q	Indicates the presence of quantitative interferences. They generally result in an underestimation of the affected total homologue groups.
V	Recovery is lower than 40%. The data has been validated based on a favorable signal-to-noise and detection limit.
#	Outside recovery limits
*	See cover letter

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Method 1613

SD-39 SWP Log #17576

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	1.05				
1,2,3,7,8-PeCDD	1.73			33:21	1.34	A
1,2,3,4,7,8-HxCDD	EMPC	1.07	2.01	35:45	0.87	
1,2,3,6,7,8-HxCDD	EMPC	1.14	3.71	35:50	0.81	
1,2,3,7,8,9-HxCDD	EMPC	1.02	2.81	36:03	0.84	
1,2,3,4,6,7,8-HpCDD	43.8			38:50	1.09	
OCDD	489			42:38	0.87	
2,3,7,8--TCDF	2.29			28:56	0.69	A
1,2,3,7,8-PeCDF	1.96			32:36	1.39	A
2,3,4,7,8-PeCDF	5.46			33:11	1.4	A
1,2,3,4,7,8-HxCDF	2.24			35:06	1.26	A
1,2,3,6,7,8-HxCDF	EMPC	0.634	2.70	35:11	1.01	
2,3,4,6,7,8-HxCDF	4.02			35:38	1.11	A
1,2,3,7,8,9-HxCDF	ND	0.783				
1,2,3,4,6,7,8-HpCDF	EMPC	0.739	12.9	37:41	1.30	
1,2,3,4,7,8,9-HpCDF	ND	0.966				
OCDF	15.3			42:53	0.89	A
Total TCDDs	3.61		5.28			
Total PeCDDs	13.0		20.5			
Total HxCDDs	34.0		42.5			
Total HpCDDs	123					
Total TCDFs	37.7		42.5			
Total PeCDFs	48.6		51.6			
Total HxCDFs	35.8		38.5			
Total HpCDFs	10.5		23.4			
ITEF TEQ (ND=0)	5.49		6.74			
ITEF TEQ (ND=½)	6.26		7.31			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SD-39 SWP Log #17576		

Laboratory Information

Project ID:	G440-7		
Sample ID:	15212		
Collection Date/Time:	19-Feb-01	15:30	
Receipt Date:	20-Feb-01		
Extraction Date:	27-Feb-01		
Analysis Date:	03-Mar-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	02.14	Grams
Solids / Lipids:	36.3	%
Original pH :	NA	
Batch ID:	WG5298	
Filename:	a02mar01a_2-2	
Retchk:	a02mar01a-15	
Begin ConCal:	a02mar01a-15	
Initial Cal:	m1613-052699m	

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Method 1613

SD-39 SWP Log #17576

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.67	83.5	29:51	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.64	82.2	33:21	1.55	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.75	87.5	35:45	1.27	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	1.95	97.5	35:50	1.23	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.70	85.1	38:49	1.06	
$^{13}C_{12}$-OCDD	4	3.60	89.9	42:37	0.86	
$^{13}C_{12}$-2,3,7,8-TCDF	2	1.93	96.7	28:55	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.85	92.5	32:36	1.57	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	1.94	97.1	33:10	1.5	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.66	83.1	35:05	0.51	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.77	88.4	35:11	0.51	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.69	84.7	35:38	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	1.96	98.0	36:20	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.89	94.6	37:41	0.49	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.02	100.8	39:25	0.48	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.66	82.6	29:53		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:08	0.81	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:38	0.51	

Client Information

Project Name: SWP-Wilmington
Sample ID: SD-39 SWP Log #17576

Laboratory Information

Project ID: G440-7
Sample ID: 15212

Collection Date/Time: 19-Feb-01 15:30
Receipt Date: 20-Feb-01
Extraction Date: 27-Feb-01
Analysis Date: 03-Mar-01

Sample Information

Matrix: Solid
Weight / Volume: 02.14 Grams
Solids / Lipids: 36.3 %
Original pH : NA
Batch ID: WG5298

Filename: a02mar01a_2-2
Retchk: a02mar01a-15
Begin ConCal: a02mar01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 09Mar01

Reviewed by: [illegible]
Date: 3/12/01

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Method 1613

SS-2DF SWP Log #17575

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	EMPC	0.958	1.91	29:53	0.52	
1,2,3,7,8-PeCDD	2.14			33:21	1.36	A
1,2,3,4,7,8-HxCDD	3.33			35:46	1.20	A
1,2,3,6,7,8-HxCDD	7.63			35:50	1.12	A
1,2,3,7,8,9-HxCDD	6.48			36:03	1.10	A
1,2,3,4,6,7,8-HpCDD	244			38:50	1.1	
OCDD	8840			42:38	0.88	
2,3,7,8--TCDF	6.09			28:56	0.82	
1,2,3,7,8-PeCDF	EMPC	0.459	3.54	32:36	1.86	
2,3,4,7,8-PeCDF	23.7			33:11	1.41	A
1,2,3,4,7,8-HxCDF	4.94			35:06	1.16	A
1,2,3,6,7,8-HxCDF	8.06			35:11	1.08	A
2,3,4,6,7,8-HxCDF	15.6			35:38	1.23	A
1,2,3,7,8,9-HxCDF	ND	1.55				
1,2,3,4,6,7,8-HpCDF	58.2			37:41	1.14	
1,2,3,4,7,8,9-HpCDF	2.88			39:24	1.13	A
OCDF	81.9			42:53	0.84	
Total TCDDs	49.6		56.4			
Total PeCDDs	52.8		56.6			
Total HxCDDs	192		205			
Total HpCDDs	770					
Total TCDFs	169		172			
Total PeCDFs	240		255			
Total HxCDFs	195		196			
Total HpCDFs	141					
ITEF TEQ (ND=0)	30.1		32.2			
ITEF TEQ (ND=½)	30.7		32.3			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	SS-2DF SWP Log #17575		
Laboratory Information			
Project ID:	G440-7		
Sample ID:	15213		
Collection Date/Time:	19-Feb-01 16:30		
Receipt Date:	20-Feb-01		
Extraction Date:	27-Feb-01		
Analysis Date:	03-Mar-01		

Sample Information

Matrix:	Solid	
Weight / Volume:	02.11	Grams
Solids / Lipids:	46.1	%
Original pH :	NA	
Batch ID:	WG5298	
Filename:	a02mar01a_2-3	
Retchk:	a02mar01a-15	
Begin ConCal:	a02mar01a-15	
Initial Cal:	m1613-052699m	

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Method 1613

SS-2DF SWP Log #17575

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.20	60.1	29:51	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.20	60.2	33:21	1.56	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.24	62.0	35:45	1.23	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	1.37	68.3	35:50	1.2	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.18	59.2	38:49	1.06	
$^{13}C_{12}$-OCDD	4	2.59	64.6	42:37	0.9	
$^{13}C_{12}$-2,3,7,8-TCDF	2	1.40	69.9	28:55	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.35	67.6	32:35	1.51	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	1.44	72.0	33:10	1.52	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.17	58.3	35:05	0.50	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.31	65.6	35:11	0.51	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.21	60.7	35:38	0.5	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	1.40	69.8	36:20	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.29	64.4	37:41	0.48	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	1.38	68.8	39:25	0.49	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.50	63.0	29:53		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:08	0.8	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:38	0.5	

Client Information

Project Name: SWP-Wilmington
Sample ID: SS-2DF SWP Log #17575

Laboratory Information

Project ID: G440-7
Sample ID: 15213

Collection Date/Time: 19-Feb-01 16:30
Receipt Date: 20-Feb-01
Extraction Date: 27-Feb-01
Analysis Date: 03-Mar-01

Sample Information

Matrix: Solid
Weight / Volume: 02.11 Grams
Solids / Lipids: 46.1 %
Original pH : NA
Batch ID: WG5298

Filename: a02mar01a_2-3
Retchk: a02mar01a-15
Begin ConCal: a02mar01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 09Mar01

Reviewed by: [illegible]
Date: 3/8/01

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Method 1613 - QC BLANK Results

LMB

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.120				
1,2,3,7,8-PeCDD	ND	0.0898				
1,2,3,4,7,8-HxCDD	ND	0.233				
1,2,3,6,7,8-HxCDD	ND	0.232				
1,2,3,7,8,9-HxCDD	ND	0.214				
1,2,3,4,6,7,8-HpCDD	0.492			38:50	1.02	A
OCDD	1.23			42:36	0.84	A
2,3,7,8--TCDF	ND	0.0676				
1,2,3,7,8-PeCDF	EMPC	0.0430	0.0820	32:36	1.17	
2,3,4,7,8-PeCDF	0.0960			33:11	1.39	A
1,2,3,4,7,8-HxCDF	0.104			35:05	1.13	A
1,2,3,6,7,8-HxCDF	ND	0.0640				
2,3,4,6,7,8-HxCDF	ND	0.0764				
1,2,3,7,8,9-HxCDF	ND	0.0848				
1,2,3,4,6,7,8-HpCDF	ND	0.0732				
1,2,3,4,7,8,9-HpCDF	ND	0.0968				
OCDF	ND	0.151				
Total TCDDs	ND	0.120				
Total PeCDDs	ND	0.446				
Total HxCDDs	ND	0.225				
Total HpCDDs	0.864					
Total TCDFs	ND	0.0676				
Total PeCDFs	0.0960		0.178			
Total HxCDFs	0.104					
Total HpCDFs	ND	0.0844				
ITEF TEQ (ND=0)	0.0646		0.0686			
ITEF TEQ (ND=½)	0.198		0.201			

Laboratory Information

Sample ID: WG5298-1

Extraction Date: 27-Feb-01
Analysis Date: 02-Mar-01

Sample Information

Matrix:	Soil	
Weight / Volume:	10.00	Grams
Solids / Lipids:	100	%
Original pH :	NA	
Batch ID:	WG5298	
Filename:	a02mar01a-5	
Retchk:	a02mar01a-1	
Begin ConCal:	a02mar01a-1	
Initial Cal:	m1613-052699m	

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SOUTHERN WOOD PIEDMONT

Method 1613 - QC BLANK Results

LMB

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.29	64.5	29:51	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.27	63.6	33:21	1.55	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.28	63.9	35:45	1.25	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	1.53	76.4	35:50	1.26	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.24	61.8	38:49	1.06	
$^{13}C_{12}$-OCDD	4	2.53	63.4	42:37	0.85	
$^{13}C_{12}$-2,3,7,8-TCDF	2	1.48	73.9	28:55	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.45	72.6	32:35	1.56	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	1.49	74.4	33:10	1.53	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.22	61.2	35:05	0.50	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.39	69.3	35:11	0.51	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.30	65.0	35:38	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	1.46	73.0	36:20	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.35	67.7	37:41	0.48	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	1.50	74.9	39:25	0.48	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.52	65.4	29:52		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:08	0.8	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:38	0.51	

Laboratory Information

Sample ID: WG5298-1

Extraction Date: 27-Feb-01
Analysis Date: 02-Mar-01

Analyzed by: HMP
Date: 08Mar01

Sample Information

Matrix: Soil
Weight / Volume: 10.00 Grams
Solids / Lipids: 100 %
Original pH : NA
Batch ID: WG5298

Filename: a02mar01a-5
Retchk: a02mar01a-1
Begin ConCal: a02mar01a-1

Initial Cal: m1613-052699m

Reviewed by: [illegible]
Date: 3/8/01

Analytical Results
for
Ongoing Precision Result (OPR)

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MAR 13 2001
FISOUTHERN WOOD PIEDMONT

Analyte	Spiked pg/ul	AMT pg/ul	REC %	Range pg/ul Lower	Range pg/ul Upper	FI
2,3,7,8-TCDD	10.0	8.80	88.0	6.7	15.8	
1,2,3,7,8-PeCDD	25.0	23.7	94.8	17.5	35.5	
1,2,3,4,7,8-HxCDD	25.0	21.3	85.1	17.5	41.0	
1,2,3,6,7,8-HxCDD	25.0	22.8	91.2	19.0	33.5	
1,2,3,7,8,9-HxCDD	25.0	22.1	88.6	16.0	40.5	
1,2,3,4,6,7,8-HpCDD	25.0	26.8	107	17.5	35.0	
OCDD	50.0	46.9	93.8	39.0	72.0	
2,3,7,8-TCDF	10.0	8.89	88.9	7.5	15.8	
1,2,3,7,8-PeCDF	25.0	23.5	94.2	20.0	33.5	
2,3,4,7,8-PeCDF	25.0	22.6	90.3	17.0	40.0	
1,2,3,4,7,8-HxCDF	25.0	24.1	96.2	18.0	33.5	
1,2,3,6,7,8-HxCDF	25.0	24.4	97.8	21.0	32.5	
2,3,4,6,7,8-HxCDF	25.0	25.8	103	17.5	39.0	
1,2,3,7,8,9-HxCDF	25.0	21.5	85.9	19.5	32.5	
1,2,3,4,6,7,8-HpCDF	25.0	22.4	89.6	20.5	30.5	
1,2,3,4,7,8,9-HpCDF	25.0	20.9	83.7	19.5	34.5	
OCDF	50.0	46.5	93.0	31.5	85.0	

= Outside range limits
* = Ion Ratio Out

QC Information

OPR Project No:	WG5298
Extraction Date:	27-Feb-01
Analysis Date:	2-MAR-01
Method:	1613

File Information

OPR Filename :	a02mar01a-4
Retchk:	a02mar01a-1
Begin ConCal:	a02mar01a-1
Initial Cal:	m1613-052699m

Sample Information

Matrix: Soil

Analytical Results
for
Ongoing Precision Result (OPR)

RECEIVED
MAR 13 2001
SOUTHERN WOOD PIEDMONT

Labeled Standard	Spiked pg/ul	AMT pg/ul	REC %	Range pg/ul Lower	Range pg/ul Upper	Flag
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	100	82.9	82.9	20	175	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	100	79.0	79.0	21	227	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	100	80.2	80.2	21	193	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	100	97.4	97.4	25	163	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	100	78.7	78.7	26	166	
$^{13}C_{12}$-OCDD	200	213	106	26	397	
$^{13}C_{12}$-2,3,7,8-TCDF	100	95.0	95.0	22	152	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	100	87.5	87.5	21	192	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	100	94.0	94.0	13	328	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	100	77.0	77.0	19	202	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	100	87.4	87.4	21	159	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	100	82.4	82.4	22	176	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	100	92.2	92.2	17	205	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	100	88.6	88.6	21	158	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	100	93.9	93.9	20	186	
Cleanup Standards						
$^{37}C_{14}$-2,3,7,8-TCDD	40.0	32.9	82.1	12.4	76.4	

QC Information

OPR Project No:	WG5298
Extraction Date:	27-Feb-01
Analysis Date:	2-MAR-01
Method:	1613

File Information

OPR Filename :	a02mar01a-4
Retchk:	a02mar01a-1
Begin ConCal:	a02mar01a-1
Initial Cal:	m1613-052699m

Sample Information

Matrix: Soil

Reviewed by: _____ Date Reviewed: 3/8/01

PARADIGM ANALYTICAL LABORATORIES, INC.
2627 Northch[illegible]arkway SE, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of C[illegible]dy Record & Analytical Request

COC# [illegible]
Page [illegible] of 1

Contact: Bill Arrants
Client: Southern Wood Piedmont
Date: 2/19/01
Report To: Sandra Watson
Phone: 864-599-1070
Address: P.O. Box 5447
T.A.T. (Std 21): Standard
P.O. Box 5447
P.O. No.:
Address: Spartanburg, SC
Project ID: SWP-Wilmington
Spartanburg, SC 29304
Quote #:
Address: 29304
Job Number: 979007.A0-27
Invoice To: Same

Sample ID	Date	Time	Matrix	Method: 1613 2378-TCDD	1613 2378-TCDF	1613 Tetra-Octa	8290 2378-TCDD	8290 2378-TCDF	8290 Tetra-Octa	8280 2378-TCDD	8280 2378-TCDF	8280 Appendix IX	8280 Tetra-Octa	Other	Comments
SD-39 SWP Log# 17576	2/19/01	15:30	Solid			X									* Wilmington Site Specific Dioxin-Furans
SS-2DF 17575	2/19/01	16:30	Solid			X									Constituent List
															G440-7

Report:
Full ☐
Summary ☒
EDD: No ☐
Yes ☒

Relinquished By	Date	Time	Received By	Date	Time	Temp	Sampled	Airbill#
Gregory B. Kurtz	2/20/01	11:60	A Myers	2/20	1125	3.8C		
13								

RECEIVED
FEB 13 2001
SOUTHERN WOOD PIEDMONT

ORIGINAL

FedEx USA Airbill FedEx Tracking Number 824136804982

SNA41

Form ID No. 0215 Sender's Copy

1 From *Please print and press hard.*

Date 2-13-01 Sender's FedEx Account Number 2181-1829-1

Sender's Name Danny Rawl Phone (803) 796-6240

Company SCHNABEL ENGINEERING ASSOC

Address 104 CORPORATE BLVD STE 420 Dept./Floor/Suite/Room

City WEST COLUMBIA State SC ZIP 29169

2 Your Internal Billing Reference First 24 characters will appear on invoice.

MATRIX

3 To

Recipient's Name Sample Receiving Phone (912) 354-7858

Company Severn Trent Labs

Address 5102 LaRoche Avenue

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

City Savannah State GA ZIP 31404

Part and Stick FedEx USA Airbill

See back for application instructions.

Questions? Call 1·800·Go·FedEx (800-463-3339)

Visit our Web site at www.fedex.com

By using this Airbill you agree to the service conditions on the back of this Airbill and in our current Service Guide, including terms that limit our liability.

0156288956

4a Express Package Service *Packages up to 150 lbs.* Delivery commitment may be later in some areas.

- [X] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

* FedEx Envelope/Letter Rate not available. Minimum charge: One-pound rate

4b Express Freight Service *Packages over 150 lbs.* Delivery commitment may be later in some areas.

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation: _____

5 Packaging * Declared value limit $500

- [ ] FedEx Envelope/Letter*
- [ ] FedEx Pak*
- [X] Other Pkg. — Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling Include FedEx address in Section 3

- [ ] SATURDAY Delivery — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] SUNDAY Delivery — Available for FedEx Priority Overnight to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available with FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous Goods cannot be shipped in FedEx packaging.

- [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [X] Sender — FedEx Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

FedEx Acct. No. / Credit Card No. Exp. Date

Total Packages	Total Weight	Total Declared Value†
3	174	$ .00

†Our liability is limited to $100 unless you declare a higher value. See back for details.

FedEx Use Only

8 Release Signature *Sign to authorize delivery without obtaining signature.*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

402

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SEVERN TRENT SERVICES
STL Savannah
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LOG NO: S1-10879
Received: 14 FEB 01
Reported: 01 MAR 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 16201031

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10879-1	MW-27 (#17493)	02-13-01/08:55
10879-2	MW-6 (#17494)	02-13-01/10:10

PARAMETER	10879-1	10879-2
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/l	ND	0.00049J
Acetone, mg/l	ND	ND
Chloroform, mg/l	ND	ND
2-Butanone (MEK), mg/l	ND	ND
Bromodichloromethane, mg/l	ND	ND
1,1,2,2-Tetrachloroethane, mg/l	ND	ND
1,2-Dichloropropane, mg/l	ND	ND
1,1,2-Trichloroethane, mg/l	ND	ND
Benzene, mg/l	ND	ND
Toluene, mg/l	0.0021J	ND
Ethylbenzene, mg/l	ND	ND
Xylenes, Total, mg/l	ND	ND

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STL Savannah

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10879-1	MW-27 (#17493)	02-13-01/08:55
10879-2	MW-6 (#17494)	02-13-01/10:10

PARAMETER	10879-1	10879-2
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/l	ND	ND
2-Chloronaphthalene, mg/l	ND	ND
Acenaphthylene, mg/l	ND	ND
Acenaphthene, mg/l	ND	ND
Fluorene, mg/l	ND	ND
Hexachlorobenzene, mg/l	ND	ND
Phenanthrene, mg/l	ND	ND
Anthracene, mg/l	ND	ND
Di-n-butylphthalate, mg/l	ND	ND
Fluoranthene, mg/l	ND	ND
Pyrene, mg/l	ND	ND
bis(2-Ethylhexyl)phthalate, mg/l	ND	ND
Chrysene, mg/l	ND	ND
Benzo(a)anthracene, mg/l	ND	ND
Benzo(b)fluoranthene, mg/l	ND	ND
Benzo(k)fluoranthene, mg/l	ND	ND
Benzo(a)pyrene, mg/l	ND	ND
Indeno(1,2,3-cd)pyrene, mg/l	ND	ND
Dibenzo(a,h)anthracene, mg/l	ND	ND
Benzo(g,h,i)perylene, mg/l	ND	ND
2-Chlorophenol, mg/l	ND	ND

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION, LIQUID SAMPLES	DATE/ TIME SAMPLED
10879-1	MW-27 (#17493)	02-13-01/08:55
10879-2	MW-6 (#17494)	02-13-01/10:10

PARAMETER	10879-1	10879-2
Phenol, mg/l	ND	ND
2,4-Dimethylphenol, mg/l	ND	ND
Pentachlorophenol, mg/l	ND	ND
2-Methylphenol (o-Cresol), mg/l	ND	ND
2-Methylnaphthalene, mg/l	ND	ND
Dibenzofuran, mg/l	ND	ND
Carbazole, mg/l	ND	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	ND	ND
Tetrachlorophenols, mg/l	ND	ND
Dilution factor	1	1
Arsenic (6010), mg/l	ND	ND
Chromium (6010), mg/l	0.0031B	ND
Copper (6010), mg/l	0.0016B	0.0018B
Field Information		
Date Collected	02.13.01	02.13.01
pH (Taken in Field)	6.37	6.31
Specific Conductance (Taken in Field)	334	2460
Temperature when sampled, Degrees C	10.2	14

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Project: WILMINGTON
Sampled By: Client
Code: 16201031

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10879-3	MW-7 (#17495)	02-13-01/10:45
10879-4	MW-8 (#17496)	02-13-01/11:30

PARAMETER	10879-3	10879-4
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/l	0.00038J	ND
Acetone, mg/l	ND	ND
Chloroform, mg/l	ND	ND
2-Butanone (MEK), mg/l	ND	ND
Bromodichloromethane, mg/l	ND	ND
1,1,2,2-Tetrachloroethane, mg/l	ND	ND
1,2-Dichloropropane, mg/l	ND	ND
1,1,2-Trichloroethane, mg/l	ND	ND
Benzene, mg/l	ND	ND
Toluene, mg/l	ND	ND
Ethylbenzene, mg/l	ND	ND
Xylenes, Total, mg/l	ND	ND

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10879-3	MW-7 (#17495)	02-13-01/10:45
10879-4	MW-8 (#17496)	02-13-01/11:30

PARAMETER	10879-3	10879-4
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/l	ND	ND
2-Chloronaphthalene, mg/l	ND	ND
Acenaphthylene, mg/l	ND	ND
Acenaphthene, mg/l	ND	ND
Fluorene, mg/l	ND	ND
Hexachlorobenzene, mg/l	ND	ND
Phenanthrene, mg/l	ND	ND
Anthracene, mg/l	ND	ND
Di-n-butylphthalate, mg/l	ND	ND
Fluoranthene, mg/l	ND	ND
Pyrene, mg/l	ND	ND
bis(2-Ethylhexyl)phthalate, mg/l	ND	0.00083J
Chrysene, mg/l	ND	ND
Benzo(a)anthracene, mg/l	ND	ND
Benzo(b)fluoranthene, mg/l	ND	ND
Benzo(k)fluoranthene, mg/l	ND	ND
Benzo(a)pyrene, mg/l	ND	ND
Indeno(1,2,3-cd)pyrene, mg/l	ND	ND
Dibenzo(a,h)anthracene, mg/l	ND	ND
Benzo(g,h,i)perylene, mg/l	ND	ND
2-Chlorophenol, mg/l	ND	ND

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CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 16201031

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10879-3	MW-7 (#17495)	02-13-01/10:45
10879-4	MW-8 (#17496)	02-13-01/11:30

PARAMETER	10879-3	10879-4
Phenol, mg/l	ND	ND
2,4-Dimethylphenol, mg/l	ND	ND
Pentachlorophenol, mg/l	ND	ND
2-Methylphenol (o-Cresol), mg/l	ND	ND
2-Methylnaphthalene, mg/l	ND	ND
Dibenzofuran, mg/l	ND	ND
Carbazole, mg/l	ND	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	ND	ND
Tetrachlorophenols, mg/l	ND	ND
Dilution factor	1	1
Arsenic (6010), mg/l	ND	ND
Chromium (6010), mg/l	0.0035B	0.0075B
Copper (6010), mg/l	ND	0.0031B
Field Information		
Date Collected	02.13.01	02.13.01
pH (Taken in Field)	5.93	5.98
Specific Conductance (Taken in Field)	624	405
Temperature when sampled, Degrees C	13.5	14.5

SEVERN TRENT SERVICES

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STL Savannah

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Ms. Sandra Watson
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CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 16201031

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10879-5	MW-8-DUP	02-13-01/11:30
10879-6	MW-8A (#17497)	02-13-01/11:25

PARAMETER	10879-5	10879-6
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/l	ND	ND
Acetone, mg/l	ND	ND
Chloroform, mg/l	ND	ND
2-Butanone (MEK), mg/l	ND	ND
Bromodichloromethane, mg/l	ND	ND
1,1,2,2-Tetrachloroethane, mg/l	ND	ND
1,2-Dichloropropane, mg/l	ND	ND
1,1,2-Trichloroethane, mg/l	ND	ND
Benzene, mg/l	ND	ND
Toluene, mg/l	ND	ND
Ethylbenzene, mg/l	ND	ND
Xylenes, Total, mg/l	ND	ND

SEVERN TRENT SERVICES

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STL Savannah

LOG NO: S1-10879
Received: 14 FEB 01
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Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 16201031

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10879-5	MW-8-DUP	02-13-01/11:30
10879-6	MW-8A (#17497)	02-13-01/11:25

PARAMETER	10879-5	10879-6
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/l	ND	ND
2-Chloronaphthalene, mg/l	ND	ND
Acenaphthylene, mg/l	ND	ND
Acenaphthene, mg/l	ND	ND
Fluorene, mg/l	ND	ND
Hexachlorobenzene, mg/l	ND	ND
Phenanthrene, mg/l	ND	ND
Anthracene, mg/l	ND	ND
Di-n-butylphthalate, mg/l	ND	ND
Fluoranthene, mg/l	ND	ND
Pyrene, mg/l	ND	ND
bis(2-Ethylhexyl)phthalate, mg/l	ND	ND
Chrysene, mg/l	ND	ND
Benzo(a)anthracene, mg/l	ND	ND
Benzo(b)fluoranthene, mg/l	ND	ND
Benzo(k)fluoranthene, mg/l	ND	ND
Benzo(a)pyrene, mg/l	ND	ND
Indeno(1,2,3-cd)pyrene, mg/l	ND	ND
Dibenzo(a,h)anthracene, mg/l	ND	ND
Benzo(g,h,i)perylene, mg/l	ND	ND
2-Chlorophenol, mg/l	ND	ND

SEVERN TRENT SERVICES

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STL Savannah

LOG NO: S1-10879
Received: 14 FEB 01
Reported: 01 MAR 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 16201031

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10879-5	MW-8-DUP	02-13-01/11:30
10879-6	MW-8A (#17497)	02-13-01/11:25

PARAMETER	10879-5	10879-6
Phenol, mg/l	ND	ND
2,4-Dimethylphenol, mg/l	ND	ND
Pentachlorophenol, mg/l	ND	ND
2-Methylphenol (o-Cresol), mg/l	ND	ND
2-Methylnaphthalene, mg/l	ND	ND
Dibenzofuran, mg/l	ND	ND
Carbazole, mg/l	ND	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	ND	ND
Tetrachlorophenols, mg/l	ND	ND
Dilution factor	1	1
Arsenic (6010), mg/l	ND	ND
Chromium (6010), mg/l	0.0049B	ND
Copper (6010), mg/l	0.0018B	ND
Field Information		
Date Collected	02.13.01	02.13.01
pH (Taken in Field)	5.98	6.14
Specific Conductance (Taken in Field)	405	267
Temperature when sampled, Degrees C	14.5	16

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Received: 14 FEB 01
Reported: 01 MAR 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 16201031

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10879-7	MW-9 (#17498)	02-13-01/12:10
10879-8	MW-10 (#17499)	02-13-01/12:55

PARAMETER	10879-7	10879-8
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/l	ND	ND
Acetone, mg/l	ND	ND
Chloroform, mg/l	ND	ND
2-Butanone (MEK), mg/l	ND	ND
Bromodichloromethane, mg/l	ND	ND
1,1,2,2-Tetrachloroethane, mg/l	ND	ND
1,2-Dichloropropane, mg/l	ND	ND
1,1,2-Trichloroethane, mg/l	ND	ND
Benzene, mg/l	ND	ND
Toluene, mg/l	ND	ND
Ethylbenzene, mg/l	ND	ND
Xylenes, Total, mg/l	ND	ND

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10879-7	MW-9 (#17498)	02-13-01/12:10
10879-8	MW-10 (#17499)	02-13-01/12:55

PARAMETER	10879-7	10879-8
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/l	ND	ND
2-Chloronaphthalene, mg/l	ND	ND
Acenaphthylene, mg/l	ND	ND
Acenaphthene, mg/l	ND	ND
Fluorene, mg/l	ND	ND
Hexachlorobenzene, mg/l	ND	ND
Phenanthrene, mg/l	ND	ND
Anthracene, mg/l	ND	ND
Di-n-butylphthalate, mg/l	ND	ND
Fluoranthene, mg/l	ND	ND
Pyrene, mg/l	ND	ND
bis(2-Ethylhexyl)phthalate, mg/l	ND	ND
Chrysene, mg/l	ND	ND
Benzo(a)anthracene, mg/l	ND	ND
Benzo(b)fluoranthene, mg/l	ND	ND
Benzo(k)fluoranthene, mg/l	ND	ND
Benzo(a)pyrene, mg/l	ND	ND
Indeno(1,2,3-cd)pyrene, mg/l	ND	ND
Dibenzo(a,h)anthracene, mg/l	ND	ND
Benzo(g,h,i)perylene, mg/l	ND	ND
2-Chlorophenol, mg/l	ND	ND

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10879-7	MW-9 (#17498)	02-13-01/12:10
10879-8	MW-10 (#17499)	02-13-01/12:55

PARAMETER	10879-7	10879-8
Phenol, mg/l	ND	ND
2,4-Dimethylphenol, mg/l	ND	ND
Pentachlorophenol, mg/l	ND	ND
2-Methylphenol (o-Cresol), mg/l	ND	ND
2-Methylnaphthalene, mg/l	ND	ND
Dibenzofuran, mg/l	ND	ND
Carbazole, mg/l	ND	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	ND	ND
Tetrachlorophenols, mg/l	ND	ND
Dilution factor	1	1
Arsenic (6010), mg/l	0.025	0.045
Chromium (6010), mg/l	0.0024B	0.0026B
Copper (6010), mg/l	0.0012B	0.0098B
Field Information		
Date Collected	02.13.01	02.13.01
pH (Taken in Field)	5.65	6.51
Specific Conductance (Taken in Field)	326	244
Temperature when sampled, Degrees C	14	10

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10879-9	MW-21 (#17500)	02-13-01/13:25
10879-10	MW-20 (#17501)	02-13-01/14:05

PARAMETER	10879-9	10879-10
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/l	ND	0.0010J
Acetone, mg/l	ND	ND
Chloroform, mg/l	ND	ND
2-Butanone (MEK), mg/l	ND	ND
Bromodichloromethane, mg/l	ND	ND
1,1,2,2-Tetrachloroethane, mg/l	ND	ND
1,2-Dichloropropane, mg/l	ND	ND
1,1,2-Trichloroethane, mg/l	ND	ND
Benzene, mg/l	ND	ND
Toluene, mg/l	ND	ND
Ethylbenzene, mg/l	ND	ND
Xylenes, Total, mg/l	ND	ND

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10879-9	MW-21 (#17500)	02-13-01/13:25
10879-10	MW-20 (#17501)	02-13-01/14:05

PARAMETER	10879-9	10879-10
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/l	ND	ND
2-Chloronaphthalene, mg/l	ND	ND
Acenaphthylene, mg/l	ND	ND
Acenaphthene, mg/l	ND	0.030
Fluorene, mg/l	ND	ND
Hexachlorobenzene, mg/l	ND	ND
Phenanthrene, mg/l	ND	ND
Anthracene, mg/l	ND	ND
Di-n-butylphthalate, mg/l	ND	ND
Fluoranthene, mg/l	ND	ND
Pyrene, mg/l	ND	ND
bis(2-Ethylhexyl)phthalate, mg/l	ND	ND
Chrysene, mg/l	ND	ND
Benzo(a)anthracene, mg/l	ND	ND
Benzo(b)fluoranthene, mg/l	ND	ND
Benzo(k)fluoranthene, mg/l	ND	ND
Benzo(a)pyrene, mg/l	ND	ND
Indeno(1,2,3-cd)pyrene, mg/l	ND	ND
Dibenzo(a,h)anthracene, mg/l	ND	ND
Benzo(g,h,i)perylene, mg/l	ND	ND
2-Chlorophenol, mg/l	ND	ND

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10879-9	MW-21 (#17500)	02-13-01/13:25
10879-10	MW-20 (#17501)	02-13-01/14:05

PARAMETER	10879-9	10879-10
Phenol, mg/l	ND	ND
2,4-Dimethylphenol, mg/l	ND	ND
Pentachlorophenol, mg/l	ND	ND
2-Methylphenol (o-Cresol), mg/l	ND	ND
2-Methylnaphthalene, mg/l	ND	ND
Dibenzofuran, mg/l	ND	ND
Carbazole, mg/l	ND	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	ND	ND
Tetrachlorophenols, mg/l	ND	ND
Dilution factor	1	1
Arsenic (6010), mg/l	ND	ND
Chromium (6010), mg/l	ND	0.0026B
Copper (6010), mg/l	ND	0.092
Field Information		
Date Collected	02.13.01	02.13.01
pH (Taken in Field)	6.23	6.15
Specific Conductance (Taken in Field)	398	586
Temperature when sampled, Degrees C	12	13

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10879-11	MW-20A (#17502)	02-13-01/14:15
10879-12	MW-23 (#17503)	02-13-01/14:55

PARAMETER	10879-11	10879-12
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/l	0.00049J	ND
Acetone, mg/l	ND	ND
Chloroform, mg/l	ND	ND
2-Butanone (MEK), mg/l	ND	ND
Bromodichloromethane, mg/l	ND	ND
1,1,2,2-Tetrachloroethane, mg/l	ND	ND
1,2-Dichloropropane, mg/l	ND	ND
1,1,2-Trichloroethane, mg/l	ND	ND
Benzene, mg/l	ND	ND
Toluene, mg/l	ND	ND
Ethylbenzene, mg/l	ND	ND
Xylenes, Total, mg/l	ND	ND

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10879-11	MW-20A (#17502)	02-13-01/14:15
10879-12	MW-23 (#17503)	02-13-01/14:55

PARAMETER	10879-11	10879-12
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/l	ND	ND
2-Chloronaphthalene, mg/l	ND	ND
Acenaphthylene, mg/l	ND	ND
Acenaphthene, mg/l	ND	ND
Fluorene, mg/l	ND	ND
Hexachlorobenzene, mg/l	ND	ND
Phenanthrene, mg/l	ND	ND
Anthracene, mg/l	ND	ND
Di-n-butylphthalate, mg/l	ND	ND
Fluoranthene, mg/l	ND	ND
Pyrene, mg/l	ND	ND
bis(2-Ethylhexyl)phthalate, mg/l	ND	ND
Chrysene, mg/l	ND	ND
Benzo(a)anthracene, mg/l	ND	ND
Benzo(b)fluoranthene, mg/l	ND	ND
Benzo(k)fluoranthene, mg/l	ND	ND
Benzo(a)pyrene, mg/l	ND	ND
Indeno(1,2,3-cd)pyrene, mg/l	ND	ND
Dibenzo(a,h)anthracene, mg/l	ND	ND
Benzo(g,h,i)perylene, mg/l	ND	ND
2-Chlorophenol, mg/l	ND	ND

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10879-11	MW-20A (#17502)	02-13-01/14:15
10879-12	MW-23 (#17503)	02-13-01/14:55

PARAMETER	10879-11	10879-12
Phenol, mg/l	ND	ND
2,4-Dimethylphenol, mg/l	ND	ND
Pentachlorophenol, mg/l	ND	ND
2-Methylphenol (o-Cresol), mg/l	ND	ND
2-Methylnaphthalene, mg/l	ND	ND
Dibenzofuran, mg/l	ND	ND
Carbazole, mg/l	ND	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	ND	ND
Tetrachlorophenols, mg/l	ND	ND
Dilution factor	1	1
Arsenic (6010), mg/l	ND	0.0055B
Chromium (6010), mg/l	ND	0.0047B
Copper (6010), mg/l	0.0094B	0.0027B
Field Information		
Date Collected	02.13.01	02.13.01
pH (Taken in Field)	6.70	6.57
Specific Conductance (Taken in Field)	235	730
Temperature when sampled, Degrees C	17	13

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10879-13	MW-31 (#17504)	02-13-01/15:50
10879-14	MW-32 (#17505)	02-13-01/16:20

PARAMETER	10879-13	10879-14
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/l	0.00059J	0.00055J
Acetone, mg/l	ND	ND
Chloroform, mg/l	ND	ND
2-Butanone (MEK), mg/l	ND	ND
Bromodichloromethane, mg/l	ND	ND
1,1,2,2-Tetrachloroethane, mg/l	ND	ND
1,2-Dichloropropane, mg/l	ND	ND
1,1,2-Trichloroethane, mg/l	ND	ND
Benzene, mg/l	ND	ND
Toluene, mg/l	ND	ND
Ethylbenzene, mg/l	ND	ND
Xylenes, Total, mg/l	ND	ND

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10879-13	MW-31 (#17504)	02-13-01/15:50
10879-14	MW-32 (#17505)	02-13-01/16:20

PARAMETER	10879-13	10879-14
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/l	ND	ND
2-Chloronaphthalene, mg/l	ND	ND
Acenaphthylene, mg/l	ND	ND
Acenaphthene, mg/l	ND	ND
Fluorene, mg/l	ND	ND
Hexachlorobenzene, mg/l	ND	ND
Phenanthrene, mg/l	ND	ND
Anthracene, mg/l	ND	ND
Di-n-butylphthalate, mg/l	ND	ND
Fluoranthene, mg/l	ND	ND
Pyrene, mg/l	ND	ND
bis(2-Ethylhexyl)phthalate, mg/l	ND	ND
Chrysene, mg/l	ND	ND
Benzo(a)anthracene, mg/l	ND	ND
Benzo(b)fluoranthene, mg/l	ND	ND
Benzo(k)fluoranthene, mg/l	ND	ND
Benzo(a)pyrene, mg/l	ND	ND
Indeno(1,2,3-cd)pyrene, mg/l	ND	ND
Dibenzo(a,h)anthracene, mg/l	ND	ND
Benzo(g,h,i)perylene, mg/l	ND	ND
2-Chlorophenol, mg/l	ND	ND

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10879-13	MW-31 (#17504)	02-13-01/15:50
10879-14	MW-32 (#17505)	02-13-01/16:20

PARAMETER	10879-13	10879-14
Phenol, mg/l	ND	ND
2,4-Dimethylphenol, mg/l	ND	ND
Pentachlorophenol, mg/l	ND	ND
2-Methylphenol (o-Cresol), mg/l	ND	ND
2-Methylnaphthalene, mg/l	ND	ND
Dibenzofuran, mg/l	ND	ND
Carbazole, mg/l	ND	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	ND	ND
Tetrachlorophenols, mg/l	ND	ND
Dilution factor	1	1
Arsenic (6010), mg/l	ND	ND
Chromium (6010), mg/l	0.0020B	ND
Copper (6010), mg/l	ND	0.0020B
Field Information		
Date Collected	02.13.01	02.13.01
pH (Taken in Field)	6.75	7.00
Specific Conductance (Taken in Field)	293	302
Temperature when sampled, Degrees-C	15	16.5

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10879-15	MW-33 (#17506)	02-13-01/15:40
10879-16	MW-30 (#17507)	02-13-01/16:55

PARAMETER	10879-15	10879-16
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/l	0.00052J	0.00059J
Acetone, mg/l	ND	ND
Chloroform, mg/l	ND	ND
2-Butanone (MEK), mg/l	ND	ND
Bromodichloromethane, mg/l	ND	ND
1,1,2,2-Tetrachloroethane, mg/l	ND	ND
1,2-Dichloropropane, mg/l	ND	ND
1,1,2-Trichloroethane, mg/l	ND	ND
Benzene, mg/l	ND	ND
Toluene, mg/l	ND	ND
Ethylbenzene, mg/l	ND	ND
Xylenes, Total, mg/l	0.0027J	ND

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10879-15	MW-33 (#17506)	02-13-01/15:40
10879-16	MW-30 (#17507)	02-13-01/16:55

PARAMETER	10879-15	10879-16
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/l	ND	ND
2-Chloronaphthalene, mg/l	ND	ND
Acenaphthylene, mg/l	ND	ND
Acenaphthene, mg/l	0.052	0.012
Fluorene, mg/l	ND	ND
Hexachlorobenzene, mg/l	ND	ND
Phenanthrene, mg/l	ND	ND
Anthracene, mg/l	ND	ND
Di-n-butylphthalate, mg/l	ND	ND
Fluoranthene, mg/l	ND	ND
Pyrene, mg/l	ND	ND
bis(2-Ethylhexyl)phthalate, mg/l	ND	ND
Chrysene, mg/l	ND	ND
Benzo(a)anthracene, mg/l	ND	ND
Benzo(b)fluoranthene, mg/l	ND	ND
Benzo(k)fluoranthene, mg/l	ND	ND
Benzo(a)pyrene, mg/l	ND	ND
Indeno(1,2,3-cd)pyrene, mg/l	ND	ND
Dibenzo(a,h)anthracene, mg/l	ND	ND
Benzo(g,h,i)perylene, mg/l	ND	ND
2-Chlorophenol, mg/l	ND	ND

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10879-15	MW-33 (#17506)	02-13-01/15:40
10879-16	MW-30 (#17507)	02-13-01/16:55

PARAMETER	10879-15	10879-16
Phenol, mg/l	ND	ND
2,4-Dimethylphenol, mg/l	ND	ND
Pentachlorophenol, mg/l	ND	ND
2-Methylphenol (o-Cresol), mg/l	ND	ND
2-Methylnaphthalene, mg/l	ND	ND
Dibenzofuran, mg/l	ND	ND
Carbazole, mg/l	ND	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	ND	ND
Tetrachlorophenols, mg/l	ND	ND
Dilution factor	1	1
Arsenic (6010), mg/l	ND	ND
Chromium (6010), mg/l	ND	0.0082B
Copper (6010), mg/l	ND	0.0014B
Field Information		
Date Collected	02.13.01	02.13.01
pH (Taken in Field)	7.80	6.22
Specific Conductance (Taken in Field)	349	374
Temperature when sampled, Degrees C	17	12

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Received: 14 FEB 01
Reported: 01 MAR 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 16201031

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10879-17	Method Blank	
10879-18	Practical Quantitation Limits	

PARAMETER	10879-17	10879-18
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/l	ND	0.010
2-Chloronaphthalene, mg/l	ND	0.010
Acenaphthylene, mg/l	ND	0.010
Acenaphthene, mg/l	ND	0.010
Fluorene, mg/l	ND	0.010
Hexachlorobenzene, mg/l	ND	0.010
Phenanthrene, mg/l	ND	0.010
Anthracene, mg/l	ND	0.010
Di-n-butylphthalate, mg/l	ND	0.010
Fluoranthene, mg/l	ND	0.010
Pyrene, mg/l	ND	0.010
bis(2-Ethylhexyl)phthalate, mg/l	ND	0.010
Chrysene, mg/l	ND	0.010
Benzo(a)anthracene, mg/l	ND	0.010
Benzo(b)fluoranthene, mg/l	ND	0.010
Benzo(k)fluoranthene, mg/l	ND	0.010
Benzo(a)pyrene, mg/l	ND	0.010
Indeno(1,2,3-cd)pyrene, mg/l	ND	0.010
Dibenzo(a,h)anthracene, mg/l	ND	0.010
Benzo(g,h,i)perylene, mg/l	ND	0.010
2-Chlorophenol, mg/l	ND	0.010

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10879-17	Method Blank	
10879-18	Practical Quantitation Limits	

PARAMETER	10879-17	10879-18
Phenol, mg/l	ND	0.010
2,4-Dimethylphenol, mg/l	ND	0.010
Pentachlorophenol, mg/l	ND	0.050
2-Methylphenol (o-Cresol), mg/l	ND	0.010
2-Methylnaphthalene, mg/l	ND	0.010
Dibenzofuran, mg/l	ND	0.010
Carbazole, mg/l	ND	0.010
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	ND	0.010
Tetrachlorophenols, mg/l	ND	0.010
Dilution factor	1	1
Arsenic (6010), mg/l	ND	0.010
Chromium (6010), mg/l	ND	0.010
Copper (6010), mg/l	ND	0.020

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10879-17	Method Blank	
10879-18	Practical Quantitation Limits	

PARAMETER	10879-17	10879-18
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/l	ND	0.0050
Acetone, mg/l	ND	0.050
Chloroform, mg/l	ND	0.0050
2-Butanone (MEK), mg/l	ND	0.025
Bromodichloromethane, mg/l	ND	0.0050
1,1,2,2-Tetrachloroethane, mg/l	ND	0.0050
1,2-Dichloropropane, mg/l	ND	0.0050
1,1,2-Trichloroethane, mg/l	ND	0.0050
Benzene, mg/l	ND	0.0050
Toluene, mg/l	ND	0.0050
Ethylbenzene, mg/l	ND	0.0050
Xylenes, Total, mg/l	ND	0.010

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10879-19	Method Detection Limit (MDL)	
10879-20	Accuracy (Mean % Rec)	

PARAMETER	10879-19	10879-20
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/l	0.00036	74 %
2-Chloronaphthalene, mg/l	0.00039	---
Acenaphthylene, mg/l	0.00033	88 %
Acenaphthene, mg/l	0.00025	85 %
Fluorene, mg/l	0.00038	92 %
Hexachlorobenzene, mg/l	0.00019	---
Phenanthrene, mg/l	0.00033	94 %
Anthracene, mg/l	0.00033	96 %
Di-n-butylphthalate, mg/l	0.00026	---
Fluoranthene, mg/l	0.00033	98 %
Pyrene, mg/l	0.00053	98 %
bis(2-Ethylhexyl)phthalate, mg/l	0.00048	---
Chrysene, mg/l	0.00044	80 %
Benzo(a)anthracene, mg/l	0.00030	82 %
Benzo(b)fluoranthene, mg/l	0.00028	94 %
Benzo(k)fluoranthene, mg/l	0.00072	87 %
Benzo(a)pyrene, mg/l	0.00041	88 %
Indeno(1,2,3-cd)pyrene, mg/l	0.00056	66 %
Dibenzo(a,h)anthracene, mg/l	0.00080	76 %
Benzo(g,h,i)perylene, mg/l	0.00068	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10879-19	Method Detection Limit (MDL)	
10879-20	Accuracy (Mean % Rec)	

PARAMETER	10879-19	10879-20
2-Chlorophenol, mg/l	0.00024	87 %
Phenol, mg/l	0.00028	85 %
2,4-Dimethylphenol, mg/l	0.00039	94 %
Pentachlorophenol, mg/l	0.0040	46 %
2-Methylphenol (o-Cresol), mg/l	0.00029	91 %
2-Methylnaphthalene, mg/l	0.00033	---
Dibenzofuran, mg/l	0.00029	---
Carbazole, mg/l	0.00054	96 %
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	0.00071	88 %
Tetrachlorophenols, mg/l	0.00061	70 %
Arsenic (6010), mg/l	0.0032	98 %
Chromium (6010), mg/l	0.0017	101 %
Copper (6010), mg/l	0.00090	100 %

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10879-19	Method Detection Limit (MDL)	
10879-20	Accuracy (Mean % Rec)	

PARAMETER	10879-19	10879-20
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/l	0.00031	---
Acetone, mg/l	0.0099	---
Chloroform, mg/l	0.00090	---
2-Butanone (MEK), mg/l	0.011	---
Bromodichloromethane, mg/l	0.00035	---
1,1,2,2-Tetrachloroethane, mg/l	0.00075	---
1,2-Dichloropropane, mg/l	0.00052	---
1,1,2-Trichloroethane, mg/l	0.00047	---
Benzene, mg/l	0.00027	88 %
Toluene, mg/l	0.00051	89 %
Ethylbenzene, mg/l	0.00083	---
Xylenes, Total, mg/l	0.0019	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10879-21	Precision (%RPD)	
10879-22	Analyst Initials	

PARAMETER	10879-21	10879-22
Acid & Base Neutral Extractables (8270)		
Naphthalene	3 %	Kim Humphreys
Acenaphthylene	5 %	Kim Humphreys
Acenaphthene	2 %	Kim Humphreys
Fluorene	2 %	Kim Humphreys
Phenanthrene	1 %	Kim Humphreys
Anthracene	1 %	Kim Humphreys
Fluoranthene	5 %	Kim Humphreys
Pyrene	2 %	Kim Humphreys
Chrysene	1 %	Kim Humphreys
Benzo(a)anthracene	0 %	Kim Humphreys
Benzo(b)fluoranthene	5 %	Kim Humphreys
Benzo(k)fluoranthene	5 %	Kim Humphreys
Benzo(a)pyrene	1 %	Kim Humphreys
Indeno(1,2,3-cd)pyrene	20 %	Kim Humphreys
Dibenzo(a,h)anthracene	1 %	Kim Humphreys
2-Chlorophenol	2 %	Kim Humphreys
Phenol	5 %	Kim Humphreys
2,4-Dimethylphenol	9 %	Kim Humphreys
Pentachlorophenol	11 %	Kim Humphreys
2-Methylphenol (o-Cresol)	2 %	Kim Humphreys
Carbazole	4 %	Kim Humphreys

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10879-21	Precision (%RPD)	
10879-22	Analyst Initials	

PARAMETER	10879-21	10879-22
3-Methylphenol/4-Methylphenol (m&p-Cresol)	3 %	Kim Humphreys
Tetrachlorophenols	3 %	Kim Humphreys
2-Chloronaphthalene	---	Kim Humphreys
Hexachlorobenzene	---	Kim Humphreys
Di-n-butylphthalate	---	Kim Humphreys
bis(2-Ethylhexyl)phthalate	---	Kim Humphreys
Benzo(g,h,i)perylene	---	Kim Humphreys
2-Methylnaphthalene	---	Kim Humphreys
Dibenzofuran	---	Kim Humphreys
Arsenic (6010)	1.6 %	Susan Norwood
Chromium (6010)	1.5 %	Susan Norwood
Copper (6010)	1.1 %	Susan Norwood

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10879-21	Precision (%RPD)	
10879-22	Analyst Initials	

PARAMETER	10879-21	10879-22
Volatiles by GC/MS (8260)		
Benzene	0 %	Paul Grimm
Toluene	2 %	Paul Grimm
Methylene chloride (Dichloromethane)	---	Paul Grimm
Acetone	---	Paul Grimm
Chloroform	---	Paul Grimm
2-Butanone (MEK)	---	Paul Grimm
Bromodichloromethane	---	Paul Grimm
1,1,2,2-Tetrachloroethane	---	Paul Grimm
1,2-Dichloropropane	---	Paul Grimm
1,1,2-Trichloroethane	---	Paul Grimm
Ethylbenzene	---	Paul Grimm
Xylenes, Total	---	Paul Grimm

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10879-23	EPA Method Numbers	
10879-24	Dates Extracted	

PARAMETER	10879-23	10879-24
Acid & Base Neutral Extractables (8270)		
Naphthalene	8270C	02.16.01
2-Chloronaphthalene	8270C	02.16.01
Acenaphthylene	8270C	02.16.01
Acenaphthene	8270C	02.16.01
Fluorene	8270C	02.16.01
Hexachlorobenzene	8270C	02.16.01
Phenanthrene	8270C	02.16.01
Anthracene	8270C	02.16.01
Di-n-butylphthalate	8270C	02.16.01
Fluoranthene	8270C	02.16.01
Pyrene	8270C	02.16.01
bis(2-Ethylhexyl)phthalate	8270C	02.16.01
Chrysene	8270C	02.16.01
Benzo(a)anthracene	8270C	02.16.01
Benzo(b)fluoranthene	8270C	02.16.01
Benzo(k)fluoranthene	8270C	02.16.01
Benzo(a)pyrene	8270C	02.16.01
Indeno(1,2,3-cd)pyrene	8270C	02.16.01
Dibenzo(a,h)anthracene	8270C	02.16.01
Benzo(g,h,i)perylene	8270C	02.16.01
2-Chlorophenol	8270C	02.16.01

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10879-23	EPA Method Numbers	
10879-24	Dates Extracted	

PARAMETER	10879-23	10879-24
Phenol	8270C	02.16.01
2,4-Dimethylphenol	8270C	02.16.01
Pentachlorophenol	8270C	02.16.01
2-Methylphenol (o-Cresol)	8270C	02.16.01
2-Methylnaphthalene	8270C	02.16.01
Dibenzofuran	8270C	02.16.01
Carbazole	8270C	02.16.01
3-Methylphenol/4-Methylphenol (m&p-Cresol)	8270C	02.16.01
Tetrachlorophenols	8270C	02.16.01
Arsenic (6010)	6010	---
Chromium (6010)	6010	---
Copper (6010)	6010	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10879-25	Dates Analyzed	

PARAMETER	10879-25
Acid & Base Neutral Extractables (8270)	
Naphthalene	02.25.01
2-Chloronaphthalene	02.25.01
Acenaphthylene	02.25.01
Acenaphthene	02.25.01
Fluorene	02.25.01
Hexachlorobenzene	02.25.01
Phenanthrene	02.25.01
Anthracene	02.25.01
Di-n-butylphthalate	02.25.01
Fluoranthene	02.25.01
Pyrene	02.25.01
bis(2-Ethylhexyl)phthalate	02.25.01
Chrysene	02.25.01
Benzo(a)anthracene	02.25.01
Benzo(b)fluoranthene	02.25.01
Benzo(k)fluoranthene	02.25.01
Benzo(a)pyrene	02.25.01
Indeno(1,2,3-cd)pyrene	02.25.01
Dibenzo(a,h)anthracene	02.25.01
Benzo(g,h,i)perylene	02.25.01
2-Chlorophenol	02.25.01
Phenol	02.25.01

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10879-25	Dates Analyzed	

PARAMETER	10879-25
2,4-Dimethylphenol	02.25.01
Pentachlorophenol	02.25.01
2-Methylphenol (o-Cresol)	02.25.01
2-Methylnaphthalene	02.25.01
Dibenzofuran	02.25.01
Carbazole	02.25.01
3-Methylphenol/4-Methylphenol (m&p-Cresol)	02.25.01
Tetrachlorophenols	02.25.01
Arsenic (6010)	02.19.01
Chromium (6010)	02.19.01
Copper (6010)	02.19.01

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10879-25	Dates Analyzed	

PARAMETER	10879-25
Volatiles by GC/MS (8260)	
Methylene chloride (Dichloromethane)	02.16.01
Acetone	02.16.01
Chloroform	02.16.01
2-Butanone (MEK)	02.16.01
Bromodichloromethane	02.16.01
1,1,2,2-Tetrachloroethane	02.16.01
1,2-Dichloropropane	02.16.01
1,1,2-Trichloroethane	02.16.01
Benzene	02.16.01
Toluene	02.16.01
Ethylbenzene	02.16.01
Xylenes, Total	02.16.01

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.
Methods: EPA SW-846 ND = Not Detected

Gloria D. Fulwood

Gloria D. Fulwood, Project Manager

Final Page Of Report

FEB 28 '01 07:41 727 P01 SCHNABEL ENGINEERING 803-796-6240

Post-it® Fax Note 7671	Date 2/28/01	# of pages ▶ 7
To Gloria Falwood	From Greg Kurtz	
Co./Dept.	Co.	
Phone #	Phone #	
Fax # 912-352-0165	Fax #	

SAMPLING FIELD DATA SHEET

WELL ID	WATER LEVEL DATE TIME	WATER LEVEL DEPTH (TOC)	WELL DEPTH (TOC)	FLOATER THICKNESS (FT)	SINKER THICKNESS (FT)	ODOR*	CALIBRATION pH	CALIBRATION COND	PURGING DATE	PURGING TIME	PURGE METHOD	CALC. PURGE VOL.	VOL. PURGED (GAL)	TEMP (C)	COND (UMHOS)	pH	TURB**	SAMPLING DATE	SAMPLING TIME	SAMP. INT.	REMARKS (DO / ORP)
MW-27	2/13 8:40	1.94	7.18			z	4/7	1410	2/13	8:45	Bailer	.85	1.0 1.0 1.0	9.4 10.2 10.2	331 335 334	6.31 6.36 6.37	938 412 412	2/13	8:55	GBK	Barrel 2.45 Dissolved 1.94 Volume separator 1.13
MW-6	2/13 7:02	3.54	22.16						2/13	9:40	Peristaltic	3.03	3.0 3.0 4.0	14 14 14	2400 2390 2460	6.22 6.23 6.31	33 16 9	2/13	10:10	GBK	10' away 1.59 -.003 1.60 -.018 1.87 -.025
MW-7	2/13 6:57	5.01	22.15						2/13	10:30	Peri	2.79	3.0 2.0	14 14.5	638 624	5.80 5.93	143 60	2/13	10:35	GBK	1.83 .041 2.29 .028 Dry Spoon
MW-8	2/13 6:51	5.20	21.81						2/13	11:00	Peri	2.71	3.0 2.0	14 14.5	325 405	5.59 5.93	111 149	2/13	11:10	GBK	2.11 .036 2.08 .056 Dry Spoon
MW-8A	2/13 6:53	4.41	32.63						2/13	11:05	Sub	4.60	5 5 7	16 16 16	274 269 267	6.11 6.14 6.14	10.69 7 6.2	2/13	11:15	GBK	1.74 .043 1.55 .037 1.20 .032
MW-9	2/13 6:47	5.07	21.99						2/13	11:50	Peri	2.76	3 2	13 14	325 326	5.63 5.65	19.9 15.1	2/13	12:10	GBK	1.81 .063 1.92 .054 Dry Spoon
MW 21	2/13 7:15	2.78	9.81						2/13	13:05	Peri	1.15	1.25 1.25 2.5	12 12 12	389 396 398	6.19 6.25 6.23	19.4 12.3 10.0	2/13	13:25	GBK	1.97 .002 2.04 .013 1.98 -.025
MW 10	2/13 7:11	4.10	14.14						2/13	12:15	Peri	1.64	2 2 2	10 10 10	222 235 284	6.49 6.43 6.51	11 9 7	2/13	12:55	GBK	3.21 .062 3.56 .024 3.39 .007
MW 20	2/13 7:18	2.69	14.49	very little sheen		no			2/13	13:35	Peri	1.92	2 2 2	13 13 13	625 612 586	6.19 6.19 6.15	19.4 13.0 12.6	2/13	14:35	GBK	1.68 .002 1.47 .005 1.05 .007

Note descrepencies from below comments in the remarks section for each well:
- Well Locked
- Bailer Present
- Bottles Labeled
- Samples Iced
- Reference Point Inspected
- Well Casing Inspected
- Well Pad Inspected

Check When Complete:
- ____ Copy of All Notes Sent with Samples To Lab
- ____ Log Numbers Obtained For Samples
- ____ Samples Shipped FedEx Priority Overnight Daily
- ____ Confirmed Samples Arrived At Lab
- ____ All Data Recorded With An Indelible Waterproof Pen
- ____ Custody Form Completed
- ____ Cooler Sealed
- ____ All Purge Water Disposed Of At Designated Location
- ____ All Sampling Derived Waste Disposed as Potentially Hazardous Waste (i.e. gloves, plastic, twine, etc.)

SITE: SWP-Washington
WEATHER: cloudy 40°
COLLECTOR'S SIGN: Gregory B. Kurtz
DATE/TIME: 2/13/01 15:00 2001

Very slight (VS), Slight (S), Moderate (M), Strong (ST), Very Strong (VST)
*Clear (C), Slight Turbid (ST), Turbid (T), Very Turbid (VT)

STANDARDIZED GROUNDWATER PURGING AND SAMPLING FIELD DATA SHEET

WELL ID	WATER LEVEL DATE TIME	WATER LEVEL DEPTH (TOC)	WELL DEPTH (TOC)	FLOATER THICKNESS (FT)	SINKER THICKNESS (FT)	ODOR*	CALIBRATION pH	CALIBRATION COND	PURGING DATE	PURGING TIME	PURGE METHOD	CALC. PURGE VOL.	VOL. PURGED (GAL)	TEMP (C)	COND (UMHOS)	pH	TURB**	SAMPLING DATE	SAMPLING TIME	SAMP. INT.	DO	REMARKS	ORP
MW 20A	2/13 7:19	2.98	32.97				4/7	1410	2/13	13:42	Sub	4.89	10	17	232	6.70	7.0	2/13	14:15	GBK	1.87		-023
													5	17	231	6.70	5.98				1.45		-017
													10	17	235	6.70	6.01				1.23		-024
MW 23	2/13 7:25	2.69	11.64						2/13	14:30	Bailer	1.46	1.5	13	710	6.88	591	2/13	14:55	GBK	2.21		-041
													1.5	13	724	6.52	141				1.37		-036
													1.5	13	720	6.57	159				2.01		-058
MW 31	2/13 7:40	4.77	16.09						2/13	15:45	Peri	1.85	2	15	265	6.70	40.7	2/13	15:50	GBK	1.25		-024
													4	15	278	6.78	12.1				1.33		-052
													3	15	293	6.75	9.44				1.31		-046
MW 32	2/13 7:42	4.73	46.71			slight			2/13	15:15	Peri	6.84	7	16.5	334	7.08	6.64	2/13	16:20	GBK	2.06		-093
													7	16.5	319	7.05	6.82				2.24		-071
													7	16.5	302	7.00	6.09				1.47		017
MW 33	2/13 7:44	4.63	55.88						2/13	15:15	Sub	8.35 Gal	18	17	346	6.72	10.8	2/13	15:40	GBK	1.78		-021
													9	17	349	7.73	6.35				1.97		-036
													18	17	349	7.70	6.01				1.35		-094
MW 30	2/13 7:48	4.15	11.0						2/13	16:40	Bail	1.12	1.30	13	358	6.17	105.6	2/13	16:55	GBK	1.25		057
													2.5	12	369	6.21	95.9				1.76		034
													1.25	12	374	6.22	97.2				1.81		033
MW 25	2/14 10:40	2.22	15.05				4/7	1410	2/14	10:50	Bail	2.09	2.35	15	522	5.22	99.3	2/14	16:30	GBK	2.73		096
																						Dry 2.25 gallons	
MW 28	2/14 8:14	2.92	15.06						2/14	8:15	Bailer	2.0	2.0	12	743	6.57	31.3	2/14	8:30	GBK	2.31		071
													4.0	12.5	735	6.56	93.1				1.35		-022
													2.0	12.5	733	6.59	90.0				1.44		-031
MW 28A	2/14 8:16	4.09	27.45						2/14	8:40	Bailer	3.80	4.0	16	186	6.74	45.5	2/14	8:55	GBK	3.40		-028
													4.0	16	176	6.66	38.6				1.96		009
													4.0	16	164	6.61	10.0				1.55		026

SCHNABEL ENGINEERING 803-796-6240

ts discrepancies from below comments
he remarks section for each well:
ell Locked
ater Present
ttles Labeled
mples Iced
ference Point Inspected
ell Casing Inspected
ell Pad Inspected

Check When Complete:

- ____ Copy of All Notes Sent with Samples To Lab
- ____ Log Numbers Obtained For Samples
- ____ Samples Shipped FedEx Priority Overnight Daily
- ____ Confirmed Samples Arrived At Lab
- ____ All Data Recorded With An Indelible Waterproof Pen
- ____ Custody Form Completed
- ____ Cooler Sealed
- ____ All Purge Water Disposed Of At Designated Location
- ____ All Sampling Derived Waste Disposed as Potentially Hazardous Waste (i.e. gloves, plastic, twine, etc..)

SITE: SWP-wellsampling
WEATHER: cloudy 60°
COLLECTOR'S SIGN.: [signature]
DATE/TIME: 2/14/01 16:30 2001

* slight (VS), Slight (S), Moderate (M), Strong (ST), Very Strong (VST)
ar (C), Slight Turbid (ST), Turbid (T), Very Turbid (VT)

10879

STANDARDIZED GROUNDWATER PURGING AND SAMPLING FIELD DATA SHEET

WELL ID	WATER LEVEL DATE TIME	WATER LEVEL DEPTH (TOC)	WELL DEPTH (TOC)	FLOATER THICKNESS (FT)	SINKER THICKNESS (FT)	ODOR*	CALIBRATION pH	CALIBRATION COND	PURGING DATE	PURGING TIME	PURGE METHOD	CALC. PURGE VOL.	VOL. PURGED (GAL)	TEMP (C)	COND (UMHOS)	pH	TURB**	SAMPLING DATE	SAMPLING TIME	SAMP. INT.	DO ORP REMARKS
MW-27	2/13 8:40	1.94	7.18			z	4/7	1410	2/13	8:45	Bailer	.85	1.0 1.0 1.0	9.4 10.2 10.2	331 335 334	6.31 6.36 6.37	835 412 412	2/13	8:55	GBK	*Barrel 245 chlorobenzene 1.5 oil pads separately
MW-6	2/13 7:02	3.34	22.16						2/13	9:40	Peristaltic	3.03	3.0 3.0 4.0	14 14 14	2400 2390 2410	6.22 6.23 6.31	33 16 9	2/13	10:10	GBK	no sample 1.59 -003 1.60 -015 1.57 -025
MW-7	2/13 6:57	5.01	22.15						2/13	10:30	Peri	2.79	3.0 2.0	14 14.5	633 624	5.80 5.93	143 60	2/13	10:45	GBK	1.83 044 2.29 028 Dry Gallon
MW-8	2/13 6:51	5.20	21.81						2/13	11:00	Peri	2.71	3.0 2.0	14 14.5	125 405	5.59 5.98	111 149	2/13	11:30	GBK	2.11 076 2.08 056 Dry Gallon
MW-8A	2/13 6:55	4.41	32.63						2/13	11:05	Sub	4.60	8 8 7	16 16 16	274 269 267	6.11 6.14 6.14	10.69 7 6.2	2/13	11:25	GBK	1.74 043 1.35 037 1.20 032
MW-9	2/13 6:47	5.07	21.99						2/13	11:50	Peri	2.76	3 2	13 14	525 326	5.63 5.65	19.9 15.1	2/13	12:10	GBK	1.81 063 1.92 054 Dry Gallons
MW 21	2/13 7:15	2.78	9.81						2/13	13:05	Peri	1.15	1.25 1.25 1.25	12 12 12	389 386 391	6.19 6.25 6.23	19.4 12.2 10.0	2/13	13:25	GBK	1.97 002 2.06 013 1.98 -025
MW 10	2/13 7:11	4.10	14.14						2/13	12:15	Peri	1.64	2 2 2	10 10 10	322 315 304	6.49 6.42 6.51	11 9 7	2/13	12:55	GBK	3.41 002 3.56 024 3.39 007
MW 20	2/13 7:13	2.69	14.49	very little sheen		no			2/13	13:35	Peri	1.92	2 2 2	13 13 13	625 612 586	6.19 6.19 6.15	14.4 12.0 12.6	2/13	14:05	GBK	1.68 002 1.47 005 1.05 007

Note discrepencies from below comments in the remarks section for each well:
- Well Locked
- Bailer Present
- Bottle Labeled
- Samples Iced
- Reference Point Inspected
- Well Casing Inspected
- Well Pad Inspected

Check When Complete:
- ____ Copy of All Notes Sent with Samples To Lab
- ____ Log Numbers Obtained For Samples
- ____ Samples Shipped FedEx Priority Overnight Daily
- ____ Confirmed Samples Arrived At Lab
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- ____ Custody Form Completed
- ____ Cooler Sealed
- ____ All Purge Water Disposed Of At Designated Location
- ____ All Sampling Derived Waste Disposed as Potentially Hazardous Waste (i.e. gloves, plastic, wipe, etc.)

SITE: SWP-Wilmington
WEATHER: Cloudy 40°
COLLECTOR'S SIGN: Gregory Bikowski
DATE/TIME: 2/13/01 15:00 2001

*Very slight (VS), Slight (S), Moderate (M), Strong (ST), Very Strong (VST)
**Clear (C), Slight Turbid (ST), Turbid (T), Very Turbid (VT)

STANDARDIZED GROUNDWATER PURGING AND SAMPLING FIELD DATA SHEET

WELL ID	WATER LEVEL DATE TIME	WATER LEVEL DEPTH (TOC)	WELL DEPTH (TOC)	FLOATER THICKNESS (FT)	SINKER THICKNESS (FT)	ODOR*	CALIBRATION pH	CALIBRATION COND	PURGING DATE	PURGING TIME	PURGE METHOD	CALC. PURGE VOL.	VOL. PURGED (GAL)	TEMP (C)	COND (UMHOS)	pH	TURB**	SAMPLING DATE	SAMPLING TIME	SAMP. INT.	DO	REMARKS	ORP
MW 20A	2/13 7:19	2.98	32.97				4/7	1410	2/13	13:42	Sub	4.89	10	17	232	6.90	7.0	2/13	14:15	GBK	1.87		-023
													5	17	231	6.90	5.98				1.45		-017
													10	17	235	6.90	6.01				1.23		-024
MW 23	2/13 7:25	2.64	11.64						2/13	14:30	Bailer	1.46	1.5	13	210	6.98	591	2/13	14:55	GBK	2.21		-041
													1.5	13	224	6.52	141				1.87		-036
													1.5	13	230	6.57	159				2.01		-058
MW 31	2/13 7:40	4.77	16.09						2/13	15:15	Peri	1.85	2	15	265	6.70	40.8	2/13	15:50	GBK	1.25		-024
													4	15	278	6.78	12.1				1.33		-052
													3	15	293	6.75	9.64				1.31		-046
MW 32	2/13 7:42	4.73	46.71			slight			2/13	15:15	Peri	6.84	7	16.5	334	7.08	6.64	2/13	16:20	GBK	2.06		-093
													7	16.5	319	7.05	6.82				2.24		-071
													7	16.5	302	7.00	6.09				1.47		017
MW 33	2/13 7:44	4.63	55.88						2/13	15:15	Sub	8.35 Sh	18	17	346	6.72	10.8	2/13	15:40	GBK	1.78		-021
													9	17	349	7.73	6.35				1.97		-086
													18	17	349	7.50	6.01				1.35		-094
MW 30	2/13 7:48	4.15	11.0						2/13	16:40	Bail	1.12	1.50	13	358	6.17	105.6	2/13	16:55	GBK	1.25		057
													2.5	12	368	6.21	95.8				1.36		034
													1.25	12	374	6.22	97.2				1.81		033
MW 25																							
MW 28																							
MW 28A																							

Note descrepencies from below comments in the remarks section for each well:
- Well Locked
- Bailer Present
- Bottles Labeled
- Samples Iced
- Reference Point Inspected
- Well Casing Inspected
- Well Pad Inspected

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- ____ All Purge Water Disposed Of At Designated Location
- ____ All Sampling Derived Waste Disposed as Potentially Hazardous Waste (i.e. gloves, plastic, twine, etc..)

SITE: _____
WEATHER: _____
COLLECTOR'S SIGN.: _____
DATE/TIME: _____ 2001

*Very slight (VS), Slight (S), Moderate (M), Strong (ST), Very Strong (VST)
**Clear (C), Slight Turbid (ST), Turbid (T), Very Turbid (VT)

Serial Number 002025

SEVERN TRENT SERVICES

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Severn Trent Laboratories, Inc.

- [x] 5102 LaRoche Avenue, Savannah, GA 31404 — Phone: (912) 354-7858 — Fax: (912) 352-0165
- [ ] 2846 Industrial Plaza Drive, Tallahassee, FL 32301 — Phone: (850) 878-3994 — Fax: (850) 878-9504
- [ ] 900 Lakeside Drive, Mobile, AL 36693 — Phone: (334) 666-6633 — Fax: (334) 666-6696
- [ ] 6712 Benjamin Road, Suite 100, Tampa, FL 33634 — Phone: (813) 885-7427 — Fax: (813) 885-7049

PROJECT REFERENCE: SWP-Wilmington	PROJECT NO.: 979007.A0-29	PROJECT LOCATION (STATE): NC
STL (LAB) PROJECT MANAGER: G. Fulwood	P.O. NUMBER:	CONTRACT NO.:
CLIENT (SITE): Southern Wood Piedmont	CLIENT PHONE: 864-599-1070	CLIENT FAX: 864-599-1087
CLIENT NAME: Bill Arrants	CLIENT E-MAIL: williamarrants@rayonier.com	
CLIENT ADDRESS: P.O. Box 5447 Spartanburg, SC 29304		
COMPANY CONTRACTING THIS WORK (if applicable): Schnabel Engineering - Greg Kuntz		

PAGE 1 OF 2

STANDARD REPORT DELIVERY [X]
DATE DUE ____

EXPEDITED REPORT DELIVERY (SURCHARGE) [ ]
DATE DUE ____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX TYPE: Liquid	SVOC (none)	Cr, Cu & As (nitric Acid)	VOC (HCl)	REMARKS
2/13/01	8:55	MW-27 SWP-Log# 17493	X	2	1	3	*Wilmington Site Specific Constituent List
	10:10	MW-6 17494					
	10:45	MW-7 17495					
	11:30	MW-8 17496					
	11:30	MW-8-Dup -----					
	11:25	MW-8A 17497					
	12:10	MW-9 17498					
	12:55	MW-10 17499					
	13:25	MW-21 17500					
	14:05	MW-20 17501					
	14:15	MW-20A 17502					
	14:55	MW-23 17503					
	15:50	MW-31 17504					

PRESERVATIVE

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[illegible]			Gregory B. Kuntz	2/13/01	18:15			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
[illegible]								

LABORATORY USE ONLY

RECEIVED FOR LABORATORY USE BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	STL SL LOG NO.	LABORATORY REMARKS
[illegible]	2/14/01	2:06	YES / NO		110879	

Serial Number 002024

SEVERN TRENT SERVICES

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Severn Trent Laboratories, Inc.

- [x] 5102 LaRoche Avenue, Savannah, GA 31404 — Phone: (912) 354-7858 — Fax: (912) 352-0165
- [ ] 2846 Industrial Plaza Drive, Tallahassee, FL 32301 — Phone: (850) 878-3994 — Fax: (850) 878-9504
- [ ] 900 Lakeside Drive, Mobile, AL 36693 — Phone: (334) 666-6633 — Fax: (334) 666-6696
- [ ] 6712 Benjamin Road, Suite 100, Tampa, FL 33634 — Phone: (813) 885-7427 — Fax: (813) 885-7049

PROJECT REFERENCE: SWP-Wilmington	PROJECT NO.: 979007.A0-29	PROJECT LOCATION (STATE): NC
STL (LAB) PROJECT MANAGER: G. Fulwood	P.O. NUMBER:	CONTRACT NO.:
CLIENT (SITE): Southern Wood Piedmont	CLIENT PHONE: 864-599-1070	CLIENT FAX: 864-599-1087
CLIENT NAME: Bill Arrants	CLIENT E-MAIL: william.arrants@rayonier.com	
CLIENT ADDRESS: P.O. Box 5447 Spartanburg, SC 29304		
COMPANY CONTRACTING THIS WORK (if applicable): Schnabel Engineering - Greg Kuntz		

PAGE 2 OF 2

STANDARD REPORT DELIVERY [X] DATE DUE ____

EXPEDITED REPORT DELIVERY (SURCHARGE) [ ] DATE DUE ____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS / PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX TYPE: Liquid	SVOC (none)	Cr, Cu & As (Nitric Acid)	VOC (HCl)	REMARKS
2/13/01	16:20	MW-32 SWP Log # 17505	X	2	1	3	*Wilmington Site
↓	15:40	MW-33 17506	↓	↓	↓	↓	Specific Constituent
↓	16:55	MW-30 17507	↓	↓	↓	↓	List

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[illegible]			Gregory B. Kuntz	2/13/01	18:15			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
[illegible]								

LABORATORY USE ONLY

RECEIVED FOR LABORATORY USE BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	STL SL LOG NO.	LABORATORY REMARKS
J. Swafford	2/14/01	2:06	YES / NO		S1-08079	

FedEx. USA Airbill FedEx Tracking Number 824136804971

SNA41

Form ID No. 0215

Sender's Copy

1 From Please print and press hard.

Date 2-14-01 Sender's FedEx Account Number 2181-1829-1

Sender's Name Danny Rawl Phone (803) 796-6240

Company SCHNABEL ENGINEERING ASSOC

Address 104 CORPORATE BLVD STE 420

Dept./Floor/Suite/Room

City WEST COLUMBIA State SC ZIP 29169

2 Your Internal Billing Reference
First 24 characters will appear on invoice.

ORIGINAL

3 To
Recipient's Name Gloria Fulwood Phone (912) 354-7858

Company SEVERN TRENT Labs

Address 5102 LaRoche Avenue
To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

City Savannah State GA ZIP 31404

PROPOSE SIGN FEDEX USA AIRBILL

See back for application instructions.

Questions? Call 1·800·Go·FedEx® (800-463-3339)

Visit our Web site at www.fedex.com

By using this Airbill you agree to the service conditions on the back of this Airbill and in our current Service Guide, including terms that limit our liability.

0156288956

4a Express Package Service — Packages up to 150 lbs. Delivery commitment may be later in some areas.

- [X] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

* FedEx Envelope/Letter Rate not available. Minimum charge: One-pound rate

4b Express Freight Service — Packages over 150 lbs. Delivery commitment may be later in some areas.

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation: _____

5 Packaging — * Declared value limit $500

- [ ] FedEx Envelope/Letter*
- [ ] FedEx Pak*
- [X] Other Pkg. — Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling — Include FedEx address in Section 3.

- [ ] SATURDAY Delivery — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] SUNDAY Delivery — Available for FedEx Priority Overnight to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available with FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 _____ x _____ kg

Dangerous Goods cannot be shipped in FedEx packaging.

- [ ] Cargo Aircraft Only

7 Payment Bill to: Enter FedEx Acct. No. or Credit Card No. below.

- [X] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

FedEx Acct. No. Credit Card No. Exp. Date

Total Packages	Total Weight	Total Declared Value†
3	176	$ .00

†Our liability is limited to $100 unless you declare a higher value. See back for details.

FedEx Use Only

8 Release Signature — Sign to authorize delivery without obtaining signature.

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

402

Rev. Date 3/98 Part #152126 ©1994-2000 FedEx • PRINTED IN U.S.A. GBFE 9/00

RECEIVED
MAR 0 8 2001

5102 LaRoche Avenue • Savannah, GA 31404 • Tel: 912 354-7858 • Fax: 912 352-0165 • www.stl-inc.com

SEVERN TRENT SERVICES

STL Savannah

LOG NO: S1-10886
Received: 15 FEB 01
Reported: 06 MAR 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 15481036

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-1	MW-28A (#17544)	02-14-01/08:55
10886-2	MW-37 (#17545)	02-14-01/09:45

PARAMETER	10886-1	10886-2
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/l	ND	ND
Acetone, mg/l	ND	ND
Chloroform, mg/l	ND	ND
2-Butanone (MEK), mg/l	ND	ND
Bromodichloromethane, mg/l	ND	ND
1,1,2,2-Tetrachloroethane, mg/l	ND	ND
1,2-Dichloropropane, mg/l	ND	ND
1,1,2-Trichloroethane, mg/l	ND	ND
Benzene, mg/l	ND	ND
Toluene, mg/l	ND	ND
Ethylbenzene, mg/l	ND	ND
Xylenes, Total, mg/l	ND	ND

SEVERN TRENT SERVICES

5102 LaRoche Avenue • Savannah, GA 31404 • Tel: 912 354 7858 • Fax: 912 352 0165 • www.stl-inc.com

STL Savannah

LOG NO: S1-10886
Received: 15 FEB 01
Reported: 06 MAR 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 15481036

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-1	MW-28A (#17544)	02-14-01/08:55
10886-2	MW-37 (#17545)	02-14-01/09:45

PARAMETER	10886-1	10886-2
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/l	ND	ND
2-Chloronaphthalene, mg/l	ND	ND
Acenaphthylene, mg/l	ND	ND
Acenaphthene, mg/l	0.017	0.060
Fluorene, mg/l	ND	0.0036J
Hexachlorobenzene, mg/l	ND	ND
Phenanthrene, mg/l	ND	ND
Anthracene, mg/l	ND	ND
Di-n-butylphthalate, mg/l	0.00029J	ND
Fluoranthene, mg/l	0.0026J	0.00035J
Pyrene, mg/l	0.0016J	ND
bis(2-Ethylhexyl)phthalate, mg/l	ND	ND
Chrysene, mg/l	0.0061J	0.0050J
Benzo(a)anthracene, mg/l	0.0032J	0.0023J
Benzo(b)fluoranthene, mg/l	0.0013J	0.00089J
Benzo(k)fluoranthene, mg/l	0.0012J	0.00097J
Benzo(a)pyrene, mg/l	0.0014J	0.0010J
Indeno(1,2,3-cd)pyrene, mg/l	ND	ND
Dibenzo(a,h)anthracene, mg/l	0.011	ND
Benzo(g,h,i)perylene, mg/l	0.0094J	0.0076J
2-Chlorophenol, mg/l	ND	ND

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LOG NO: S1-10886
Received: 15 FEB 01
Reported: 06 MAR 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 15481036

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-1	MW-28A (#17544)	02-14-01/08:55
10886-2	MW-37 (#17545)	02-14-01/09:45

PARAMETER	10886-1	10886-2
Phenol, mg/l	ND	ND
2,4-Dimethylphenol, mg/l	ND	ND
Pentachlorophenol, mg/l	ND	ND
2-Methylphenol (o-Cresol), mg/l	ND	ND
2-Methylnaphthalene, mg/l	ND	ND
2,4,5-Trichlorophenol, mg/l	ND	ND
Dibenzofuran, mg/l	ND	ND
Carbazole, mg/l	0.00075J	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	ND	ND
Tetrachlorophenols, mg/l	ND	ND
Dilution factor	1	1
Arsenic (6010), mg/l	ND	ND
Chromium (6010), mg/l	ND	0.011
Copper (6010), mg/l	ND	0.0033B
Field Information		
Date Collected	02.14.01	02.14.01
pH (Taken in Field)	6.61	6.51
Specific Conductance (Taken in Field)	164	586
Temperature when sampled, Degrees C	16	16.5

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Sampled By: Client
Code: 15481036

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-3	EQUIP21401	02-14-01/09:35
10886-4	MW-37-DUP	02-14-01/09:45

PARAMETER	10886-3	10886-4
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/l	ND	ND
Acetone, mg/l	0.011J	ND
Chloroform, mg/l	ND	ND
2-Butanone (MEK), mg/l	ND	ND
Bromodichloromethane, mg/l	ND	ND
1,1,2,2-Tetrachloroethane, mg/l	ND	ND
1,2-Dichloropropane, mg/l	ND	ND
1,1,2-Trichloroethane, mg/l	ND	ND
Benzene, mg/l	ND	ND
Toluene, mg/l	0.00062J	ND
Ethylbenzene, mg/l	ND	ND
Xylenes, Total, mg/l	ND	ND

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-3	EQUIP21401	02-14-01/09:35
10886-4	MW-37-DUP	02-14-01/09:45

PARAMETER	10886-3	10886-4
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/l	ND	ND
2-Chloronaphthalene, mg/l	ND	ND
Acenaphthylene, mg/l	ND	ND
Acenaphthene, mg/l	ND	0.057
Fluorene, mg/l	ND	0.0033J
Hexachlorobenzene, mg/l	ND	ND
Phenanthrene, mg/l	ND	ND
Anthracene, mg/l	ND	ND
Di-n-butylphthalate, mg/l	0.00043J	0.00034J
Fluoranthene, mg/l	ND	ND
Pyrene, mg/l	ND	ND
bis(2-Ethylhexyl)phthalate, mg/l	ND	ND
Chrysene, mg/l	0.0050J	0.0049J
Benzo(a)anthracene, mg/l	0.0024J	0.0022J
Benzo(b)fluoranthene, mg/l	0.0010J	0.00042J
Benzo(k)fluoranthene, mg/l	0.0012J	0.00080J
Benzo(a)pyrene, mg/l	0.0014J	0.00085J
Indeno(1,2,3-cd)pyrene, mg/l	ND	ND
Dibenzo(a,h)anthracene, mg/l	0.0098J	ND
Benzo(g,h,i)perylene, mg/l	ND	ND
2-Chlorophenol, mg/l	ND	ND

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-3	EQUIP21401	02-14-01/09:35
10886-4	MW-37-DUP	02-14-01/09:45

PARAMETER	10886-3	10886-4
Phenol, mg/l	ND	ND
2,4-Dimethylphenol, mg/l	ND	ND
Pentachlorophenol, mg/l	ND	ND
2-Methylphenol (o-Cresol), mg/l	ND	ND
2-Methylnaphthalene, mg/l	ND	ND
2,4,5-Trichlorophenol, mg/l	ND	ND
Dibenzofuran, mg/l	ND	ND
Carbazole, mg/l	ND	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	ND	ND
Tetrachlorophenols, mg/l	ND	ND
Dilution factor	1	1
Arsenic (6010), mg/l	ND	ND
Chromium (6010), mg/l	ND	0.011
Copper (6010), mg/l	ND	0.0014B
Field Information		
Date Collected	---	02.14.01
pH (Taken in Field)	---	6.51
Specific Conductance (Taken in Field)	---	586
Temperature when sampled, Degrees C	---	16.5

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-5	MW-38 (#17546)	02-14-01/10:00
10886-6	MW-39 (#17547)	02-14-01/10:15

PARAMETER	10886-5	10886-6
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/l	ND	ND
Acetone, mg/l	0.011J	0.011J
Chloroform, mg/l	ND	ND
2-Butanone (MEK), mg/l	ND	ND
Bromodichloromethane, mg/l	ND	ND
1,1,2,2-Tetrachloroethane, mg/l	ND	ND
1,2-Dichloropropane, mg/l	ND	ND
1,1,2-Trichloroethane, mg/l	ND	ND
Benzene, mg/l	ND	ND
Toluene, mg/l	ND	ND
Ethylbenzene, mg/l	ND	ND
Xylenes, Total, mg/l	ND	ND

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-5	MW-38 (#17546)	02-14-01/10:00
10886-6	MW-39 (#17547)	02-14-01/10:15

PARAMETER	10886-5	10886-6
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/l	ND	ND
2-Chloronaphthalene, mg/l	ND	ND
Acenaphthylene, mg/l	ND	ND
Acenaphthene, mg/l	ND	ND
Fluorene, mg/l	ND	ND
Hexachlorobenzene, mg/l	ND	ND
Phenanthrene, mg/l	ND	ND
Anthracene, mg/l	ND	ND
Di-n-butylphthalate, mg/l	ND	0.00035J
Fluoranthene, mg/l	ND	ND
Pyrene, mg/l	ND	ND
bis(2-Ethylhexyl)phthalate, mg/l	ND	ND
Chrysene, mg/l	0.0050J	0.0047J
Benzo(a)anthracene, mg/l	0.0023J	0.0021J
Benzo(b)fluoranthene, mg/l	ND	0.00034J
Benzo(k)fluoranthene, mg/l	ND	ND
Benzo(a)pyrene, mg/l	0.00072J	ND
Indeno(1,2,3-cd)pyrene, mg/l	ND	ND
Dibenzo(a,h)anthracene, mg/l	ND	ND
Benzo(g,h,i)perylene, mg/l	ND	ND
2-Chlorophenol, mg/l	ND	ND

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-5	MW-38 (#17546)	02-14-01/10:00
10886-6	MW-39 (#17547)	02-14-01/10:15

PARAMETER	10886-5	10886-6
Phenol, mg/l	ND	ND
2,4-Dimethylphenol, mg/l	ND	ND
Pentachlorophenol, mg/l	ND	ND
2-Methylphenol (o-Cresol), mg/l	ND	ND
2-Methylnaphthalene, mg/l	ND	ND
2,4,5-Trichlorophenol, mg/l	ND	ND
Dibenzofuran, mg/l	ND	ND
Carbazole, mg/l	ND	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	ND	ND
Tetrachlorophenols, mg/l	ND	ND
Dilution factor	1	1
Arsenic (6010), mg/l	ND	ND
Chromium (6010), mg/l	0.0039B	0.0022B
Copper (6010), mg/l	ND	0.0071B
Field Information		
Date Collected	02.14.01	02.14.01
pH (Taken in Field)	5.95	7.17
Specific Conductance (Taken in Field)	196	211
Temperature when sampled, Degrees C	18	18

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-7	MW-41 (#17549)	02-14-01/12:20
10886-8	MW-42 (#17550)	02-14-01/12:10

PARAMETER	10886-7	10886-8
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/l	ND	ND
Acetone, mg/l	0.011J	0.010J
Chloroform, mg/l	ND	ND
2-Butanone (MEK), mg/l	ND	ND
Bromodichloromethane, mg/l	ND	ND
1,1,2,2-Tetrachloroethane, mg/l	ND	ND
1,2-Dichloropropane, mg/l	ND	ND
1,1,2-Trichloroethane, mg/l	ND	ND
Benzene, mg/l	ND	ND
Toluene, mg/l	ND	ND
Ethylbenzene, mg/l	ND	ND
Xylenes, Total, mg/l	ND	ND

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-7	MW-41 (#17549)	02-14-01/12:20
10886-8	MW-42 (#17550)	02-14-01/12:10

PARAMETER	10886-7	10886-8
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/l	ND	ND
2-Chloronaphthalene, mg/l	ND	ND
Acenaphthylene, mg/l	ND	ND
Acenaphthene, mg/l	ND	ND
Fluorene, mg/l	ND	ND
Hexachlorobenzene, mg/l	ND	ND
Phenanthrene, mg/l	ND	ND
Anthracene, mg/l	ND	ND
Di-n-butylphthalate, mg/l	0.00029J	0.00030J
Fluoranthene, mg/l	ND	ND
Pyrene, mg/l	ND	ND
bis(2-Ethylhexyl)phthalate, mg/l	ND	ND
Chrysene, mg/l	0.0048J	0.0047J
Benzo(a)anthracene, mg/l	0.0021J	0.0021J
Benzo(b)fluoranthene, mg/l	ND	ND
Benzo(k)fluoranthene, mg/l	ND	ND
Benzo(a)pyrene, mg/l	0.00050J	0.00047J
Indeno(1,2,3-cd)pyrene, mg/l	ND	ND
Dibenzo(a,h)anthracene, mg/l	0.0098J	ND
Benzo(g,h,i)perylene, mg/l	0.0074J	ND
2-Chlorophenol, mg/l	ND	ND

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-7	MW-41 (#17549)	02-14-01/12:20
10886-8	MW-42 (#17550)	02-14-01/12:10

PARAMETER	10886-7	10886-8
Phenol, mg/l	ND	ND
2,4-Dimethylphenol, mg/l	ND	ND
Pentachlorophenol, mg/l	ND	ND
2-Methylphenol (o-Cresol), mg/l	ND	ND
2-Methylnaphthalene, mg/l	ND	ND
2,4,5-Trichlorophenol, mg/l	ND	ND
Dibenzofuran, mg/l	ND	ND
Carbazole, mg/l	ND	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	ND	ND
Tetrachlorophenols, mg/l	ND	ND
Dilution factor	1	1
Arsenic (6010), mg/l	ND	ND
Chromium (6010), mg/l	0.0055B	0.0022B
Copper (6010), mg/l	0.0035B	0.0024B
Field Information		
Date Collected	02.14.01	02.14.01
pH (Taken in Field)	6.21	7.04
Specific Conductance (Taken in Field)	197	296
Temperature when sampled, Degrees C	18	17

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-9	MW-25 (#17552)	02-14-01/16:30
10886-10	MW-22A (#17553)	02-14-01/14:25

PARAMETER	10886-9	10886-10
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/l	ND	ND
Acetone, mg/l	0.011J	ND
Chloroform, mg/l	ND	ND
2-Butanone (MEK), mg/l	ND	ND
Bromodichloromethane, mg/l	ND	ND
1,1,2,2-Tetrachloroethane, mg/l	ND	ND
1,2-Dichloropropane, mg/l	ND	ND
1,1,2-Trichloroethane, mg/l	ND	ND
Benzene, mg/l	ND	ND
Toluene, mg/l	ND	ND
Ethylbenzene, mg/l	ND	ND
Xylenes, Total, mg/l	ND	ND

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-9	MW-25 (#17552)	02-14-01/16:30
10886-10	MW-22A (#17553)	02-14-01/14:25

PARAMETER	10886-9	10886-10
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/l	ND	0.00084J
2-Chloronaphthalene, mg/l	ND	ND
Acenaphthylene, mg/l	ND	ND
Acenaphthene, mg/l	0.0037J	0.0012J
Fluorene, mg/l	0.0033J	ND
Hexachlorobenzene, mg/l	ND	ND
Phenanthrene, mg/l	0.0045J	ND
Anthracene, mg/l	0.0026J	ND
Di-n-butylphthalate, mg/l	ND	0.00080J
Fluoranthene, mg/l	0.0058J	ND
Pyrene, mg/l	0.0040J	ND
bis(2-Ethylhexyl)phthalate, mg/l	ND	ND
Chrysene, mg/l	0.0051J	0.0047J
Benzo(a)anthracene, mg/l	0.0025J	0.0020J
Benzo(b)fluoranthene, mg/l	ND	ND
Benzo(k)fluoranthene, mg/l	ND	ND
Benzo(a)pyrene, mg/l	0.00051J	ND
Indeno(1,2,3-cd)pyrene, mg/l	ND	ND
Dibenzo(a,h)anthracene, mg/l	ND	ND
Benzo(g,h,i)perylene, mg/l	ND	ND
2-Chlorophenol, mg/l	ND	ND

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-9	MW-25 (#17552)	02-14-01/16:30
10886-10	MW-22A (#17553)	02-14-01/14:25

PARAMETER	10886-9	10886-10
Phenol, mg/l	ND	ND
2,4-Dimethylphenol, mg/l	ND	ND
Pentachlorophenol, mg/l	ND	ND
2-Methylphenol (o-Cresol), mg/l	ND	ND
2-Methylnaphthalene, mg/l	ND	ND
2,4,5-Trichlorophenol, mg/l	ND	ND
Dibenzofuran, mg/l	0.0021J	ND
Carbazole, mg/l	ND	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	ND	ND
Tetrachlorophenols, mg/l	ND	ND
Dilution factor	1	1
Arsenic (6010), mg/l	ND	ND
Chromium (6010), mg/l	0.0072B	0.0026B
Copper (6010), mg/l	0.0040B	0.0023B
Field Information		
Date Collected	02.14.01	02.14.01
pH (Taken in Field)	5.82	5.51
Specific Conductance (Taken in Field)	522	200
Temperature when sampled, Degrees C	15	19

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-11	MW-13 (#17554)	02-14-01/14:40
10886-12	MW-16 (#17555)	02-14-01/15:20

PARAMETER	10886-11	10886-12
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/l	ND	ND
Acetone, mg/l	0.012J	ND
Chloroform, mg/l	ND	ND
2-Butanone (MEK), mg/l	ND	ND
Bromodichloromethane, mg/l	ND	ND
1,1,2,2-Tetrachloroethane, mg/l	ND	ND
1,2-Dichloropropane, mg/l	ND	ND
1,1,2-Trichloroethane, mg/l	ND	ND
Benzene, mg/l	0.014	ND
Toluene, mg/l	0.0024J	ND
Ethylbenzene, mg/l	0.029	ND
Xylenes, Total, mg/l	0.030	ND

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-11	MW-13 (#17554)	02-14-01/14:40
10886-12	MW-16 (#17555)	02-14-01/15:20

PARAMETER	10886-11	10886-12
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/l	1.7	ND
2-Chloronaphthalene, mg/l	ND	ND
Acenaphthylene, mg/l	ND	ND
Acenaphthene, mg/l	0.38	ND
Fluorene, mg/l	0.15	ND
Hexachlorobenzene, mg/l	ND	ND
Phenanthrene, mg/l	0.091J	ND
Anthracene, mg/l	0.0073J	ND
Di-n-butylphthalate, mg/l	ND	ND
Fluoranthene, mg/l	0.0051J	ND
Pyrene, mg/l	ND	ND
bis(2-Ethylhexyl)phthalate, mg/l	ND	ND
Chrysene, mg/l	0.048J	0.0095J
Benzo(a)anthracene, mg/l	ND	0.0043J
Benzo(b)fluoranthene, mg/l	0.0038J	ND
Benzo(k)fluoranthene, mg/l	ND	ND
Benzo(a)pyrene, mg/l	ND	ND
Indeno(1,2,3-cd)pyrene, mg/l	ND	ND
Dibenzo(a,h)anthracene, mg/l	ND	ND
Benzo(g,h,i)perylene, mg/l	ND	ND
2-Chlorophenol, mg/l	ND	ND

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LOG NO: S1-10886
Received: 15 FEB 01
Reported: 06 MAR 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 15481036

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-11	MW-13 (#17554)	02-14-01/14:40
10886-12	MW-16 (#17555)	02-14-01/15:20

PARAMETER	10886-11	10886-12
Phenol, mg/l	ND	ND
2,4-Dimethylphenol, mg/l	ND	ND
Pentachlorophenol, mg/l	ND	ND
2-Methylphenol (o-Cresol), mg/l	ND	ND
2-Methylnaphthalene, mg/l	0.22	ND
2,4,5-Trichlorophenol, mg/l	ND	ND
Dibenzofuran, mg/l	0.19	ND
Carbazole, mg/l	0.11	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	ND	ND
Tetrachlorophenols, mg/l	ND	ND
Dilution factor	10	2
Arsenic (6010), mg/l	0.0040B	ND
Chromium (6010), mg/l	0.013	0.0030B
Copper (6010), mg/l	0.0032B	0.0026B
Field Information		
Date Collected	02.14.01	02.14.01
pH (Taken in Field)	6.34	6.09
Specific Conductance (Taken in Field)	1114	1447
Temperature when sampled, Degrees C	14	15

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-13	MW-17 (#17556)	02-14-01/15:40

PARAMETER	10886-13
Volatiles by GC/MS (8260)	
Methylene chloride (Dichloromethane), mg/l	ND
Acetone, mg/l	ND
Chloroform, mg/l	ND
2-Butanone (MEK), mg/l	ND
Bromodichloromethane, mg/l	ND
1,1,2,2-Tetrachloroethane, mg/l	ND
1,2-Dichloropropane, mg/l	ND
1,1,2-Trichloroethane, mg/l	ND
Benzene, mg/l	ND
Toluene, mg/l	ND
Ethylbenzene, mg/l	ND
Xylenes, Total, mg/l	ND

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-13	MW-17 (#17556)	02-14-01/15:40

PARAMETER	10886-13
Acid & Base Neutral Extractables (8270)	
Naphthalene, mg/l	ND
2-Chloronaphthalene, mg/l	ND
Acenaphthylene, mg/l	ND
Acenaphthene, mg/l	0.0052J
Fluorene, mg/l	0.0048J
Hexachlorobenzene, mg/l	ND
Phenanthrene, mg/l	ND
Anthracene, mg/l	ND
Di-n-butylphthalate, mg/l	0.00079J
Fluoranthene, mg/l	0.00092J
Pyrene, mg/l	ND
bis(2-Ethylhexyl)phthalate, mg/l	ND
Chrysene, mg/l	0.0092J
Benzo(a)anthracene, mg/l	0.0040J
Benzo(b)fluoranthene, mg/l	ND
Benzo(k)fluoranthene, mg/l	ND
Benzo(a)pyrene, mg/l	ND
Indeno(1,2,3-cd)pyrene, mg/l	ND
Dibenzo(a,h)anthracene, mg/l	ND
Benzo(g,h,i)perylene, mg/l	ND
2-Chlorophenol, mg/l	ND
Phenol, mg/l	ND

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-13	MW-17 (#17556)	02-14-01/15:40

PARAMETER	10886-13
2,4-Dimethylphenol, mg/l	ND
Pentachlorophenol, mg/l	ND
2-Methylphenol (o-Cresol), mg/l	ND
2-Methylnaphthalene, mg/l	ND
2,4,5-Trichlorophenol, mg/l	ND
Dibenzofuran, mg/l	0.0010J
Carbazole, mg/l	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	ND
Tetrachlorophenols, mg/l	ND
Dilution factor	2
Arsenic (6010), mg/l	0.0058B
Chromium (6010), mg/l	ND
Copper (6010), mg/l	0.0080B
Field Information	
Date Collected	02.14.01
pH (Taken in Field)	6.3
Specific Conductance (Taken in Field)	1020
Temperature when sampled, Degrees C	12.8

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Sampled By: Client
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-14	MW-28 (#17543)	02-14-01/08:30
10886-15	MW-40 (#17548)	02-14-01/11:55

PARAMETER	10886-14	10886-15
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/l	ND	ND
Acetone, mg/l	ND	0.014J
Chloroform, mg/l	ND	ND
2-Butanone (MEK), mg/l	ND	ND
Bromodichloromethane, mg/l	ND	ND
1,1,2,2-Tetrachloroethane, mg/l	ND	ND
1,2-Dichloropropane, mg/l	ND	ND
1,1,2-Trichloroethane, mg/l	ND	ND
Benzene, mg/l	ND	ND
Toluene, mg/l	ND	ND
Ethylbenzene, mg/l	ND	ND
Xylenes, Total, mg/l	ND	ND

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-14	MW-28 (#17543)	02-14-01/08:30
10886-15	MW-40 (#17548)	02-14-01/11:55

PARAMETER	10886-14	10886-15
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/l	ND	ND
2-Chloronaphthalene, mg/l	ND	ND
Acenaphthylene, mg/l	ND	ND
Acenaphthene, mg/l	0.0078J	ND
Fluorene, mg/l	0.0073J	ND
Hexachlorobenzene, mg/l	ND	ND
Phenanthrene, mg/l	0.0068J	0.0024J
Anthracene, mg/l	0.00049J	ND
Di-n-butylphthalate, mg/l	0.00048J	0.00049J
Fluoranthene, mg/l	0.0015J	ND
Pyrene, mg/l	0.0010J	ND
bis(2-Ethylhexyl)phthalate, mg/l	0.0014J	0.0018J
Chrysene, mg/l	0.0013J	0.0015J
Benzo(a)anthracene, mg/l	0.0012J	0.0016J
Benzo(b)fluoranthene, mg/l	ND	ND
Benzo(k)fluoranthene, mg/l	ND	ND
Benzo(a)pyrene, mg/l	ND	ND
Indeno(1,2,3-cd)pyrene, mg/l	ND	ND
Dibenzo(a,h)anthracene, mg/l	ND	ND
Benzo(g,h,i)perylene, mg/l	ND	ND

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-14	MW-28 (#17543)	02-14-01/08:30
10886-15	MW-40 (#17548)	02-14-01/11:55

PARAMETER	10886-14	10886-15
2-Chlorophenol, mg/l	ND	ND
Phenol, mg/l	ND	ND
2,4-Dimethylphenol, mg/l	ND	ND
Pentachlorophenol, mg/l	ND	ND
2-Methylphenol (o-Cresol), mg/l	ND	ND
2-Methylnaphthalene, mg/l	ND	ND
2,4,5-Trichlorophenol, mg/l	ND	ND
Dibenzofuran, mg/l	0.00043J	ND
Carbazole, mg/l	ND	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	ND	ND
Tetrachlorophenols, mg/l	ND	ND
Dilution factor	1	1
Arsenic (6010), mg/l	0.0039B	0.12
Chromium (6010), mg/l	0.0035B	ND
Copper (6010), mg/l	0.0073B	0.0016B
Arsenic, (Dissolved) (6010), mg/l	ND	0.085
Chromium, (Dissolved) (6010), mg/l	ND	ND

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-14	MW-28 (#17543)	02-14-01/08:30
10886-15	MW-40 (#17548)	02-14-01/11:55

PARAMETER	10886-14	10886-15
Field Information		
Date Collected	02.14.01	02.14.01
pH (Taken in Field)	6.59	6.5
Specific Conductance (Taken in Field)	733	350
Temperature when sampled, Degrees C	12.5	14.6

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-16	MW-18 (#17551)	02-14-01/13:25

PARAMETER	10886-16
Volatiles by GC/MS (8260)	
Methylene chloride (Dichloromethane), mg/l	ND
Acetone, mg/l	0.013J
Chloroform, mg/l	ND
2-Butanone (MEK), mg/l	ND
Bromodichloromethane, mg/l	ND
1,1,2,2-Tetrachloroethane, mg/l	ND
1,2-Dichloropropane, mg/l	ND
1,1,2-Trichloroethane, mg/l	ND
Benzene, mg/l	ND
Toluene, mg/l	ND
Ethylbenzene, mg/l	ND
Xylenes, Total, mg/l	ND

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-16	MW-18 (#17551)	02-14-01/13:25

PARAMETER	10886-16
Acid & Base Neutral Extractables (8270)	
Naphthalene, mg/l	ND
2-Chloronaphthalene, mg/l	ND
Acenaphthylene, mg/l	ND
Acenaphthene, mg/l	ND
Fluorene, mg/l	ND
Hexachlorobenzene, mg/l	ND
Phenanthrene, mg/l	ND
Anthracene, mg/l	ND
Di-n-butylphthalate, mg/l	ND
Fluoranthene, mg/l	ND
Pyrene, mg/l	ND
bis(2-Ethylhexyl)phthalate, mg/l	0.0014J
Chrysene, mg/l	0.0011J
Benzo(a)anthracene, mg/l	0.00098J
Benzo(b)fluoranthene, mg/l	ND
Benzo(k)fluoranthene, mg/l	ND
Benzo(a)pyrene, mg/l	ND
Indeno(1,2,3-cd)pyrene, mg/l	ND
Dibenzo(a,h)anthracene, mg/l	ND
Benzo(g,h,i)perylene, mg/l	ND
2-Chlorophenol, mg/l	ND
Phenol, mg/l	ND

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-16	MW-18 (#17551)	02-14-01/13:25

PARAMETER	10886-16
2,4-Dimethylphenol, mg/l	ND
Pentachlorophenol, mg/l	ND
2-Methylphenol (o-Cresol), mg/l	ND
2-Methylnaphthalene, mg/l	ND
2,4,5-Trichlorophenol, mg/l	ND
Dibenzofuran, mg/l	ND
Carbazole, mg/l	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	ND
Tetrachlorophenols, mg/l	ND
Dilution factor	1
Arsenic (6010), mg/l	0.032
Chromium (6010), mg/l	6.7
Copper (6010), mg/l	0.16
Arsenic, (Dissolved) (6010), mg/l	ND
Chromium, (Dissolved) (6010), mg/l	0.010

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-16	MW-18 (#17551)	02-14-01/13:25

PARAMETER	10886-16
Field Information	
Date Collected	02.14.01
pH (Taken in Field)	6.26
Specific Conductance (Taken in Field)	1930
Temperature when sampled, Degrees C	13

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-17	Method Blank	
10886-18	Practical Quantitation Limits	

PARAMETER	10886-17	10886-18
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/l	ND	0.0050
Acetone, mg/l	ND	0.050
Chloroform, mg/l	ND	0.0050
2-Butanone (MEK), mg/l	ND	0.025
Bromodichloromethane, mg/l	ND	0.0050
1,1,2,2-Tetrachloroethane, mg/l	ND	0.0050
1,2-Dichloropropane, mg/l	ND	0.0050
1,1,2-Trichloroethane, mg/l	ND	0.0050
Benzene, mg/l	ND	0.0050
Toluene, mg/l	ND	0.0050
Ethylbenzene, mg/l	ND	0.0050
Xylenes, Total, mg/l	ND	0.010

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-17	Method Blank	
10886-18	Practical Quantitation Limits	

PARAMETER	10886-17	10886-18
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/l	ND	0.010
2-Chloronaphthalene, mg/l	ND	0.010
Acenaphthylene, mg/l	ND	0.010
Acenaphthene, mg/l	ND	0.010
Fluorene, mg/l	ND	0.010
Hexachlorobenzene, mg/l	ND	0.010
Phenanthrene, mg/l	ND	0.010
Anthracene, mg/l	ND	0.010
Di-n-butylphthalate, mg/l	ND	0.010
Fluoranthene, mg/l	ND	0.010
Pyrene, mg/l	ND	0.010
bis(2-Ethylhexyl)phthalate, mg/l	ND	0.010
Chrysene, mg/l	ND	0.010
Benzo(a)anthracene, mg/l	ND	0.010
Benzo(b)fluoranthene, mg/l	ND	0.010
Benzo(k)fluoranthene, mg/l	ND	0.010
Benzo(a)pyrene, mg/l	ND	0.010
Indeno(1,2,3-cd)pyrene, mg/l	ND	0.010
Dibenzo(a,h)anthracene, mg/l	ND	0.010
Benzo(g,h,i)perylene, mg/l	ND	0.010
2-Chlorophenol, mg/l	ND	0.010

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Sampled By: Client
Code: 15481036

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-17	Method Blank	
10886-18	Practical Quantitation Limits	

PARAMETER	10886-17	10886-18
Phenol, mg/l	ND	0.010
2,4-Dimethylphenol, mg/l	ND	0.010
Pentachlorophenol, mg/l	ND	0.050
2-Methylphenol (o-Cresol), mg/l	ND	0.010
2-Methylnaphthalene, mg/l	ND	0.010
2,4,5-Trichlorophenol, mg/l	ND	0.010
Dibenzofuran, mg/l	ND	0.010
Carbazole, mg/l	ND	0.010
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	ND	0.010
Tetrachlorophenols, mg/l	ND	0.010
Dilution factor	1	1
Arsenic (6010), mg/l	ND	0.010
Chromium (6010), mg/l	ND	0.010
Copper (6010), mg/l	ND	0.020
Arsenic, (Dissolved) (6010), mg/l	ND	0.010
Chromium, (Dissolved) (6010), mg/l	ND	0.010

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-25	Method Detection Limit (MDL)	
10886-19	Accuracy (Mean % Rec)	

PARAMETER	10886-25	10886-19
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/l	0.00031	---
Acetone, mg/l	0.0099	---
Chloroform, mg/l	0.00090	---
2-Butanone (MEK), mg/l	0.0011	---
Bromodichloromethane, mg/l	0.00035	---
1,1,2,2-Tetrachloroethane, mg/l	0.00075	---
1,2-Dichloropropane, mg/l	0.00052	---
1,1,2-Trichloroethane, mg/l	0.00047	---
Benzene, mg/l	0.00027	98 %
Toluene, mg/l	0.00051	95 %
Ethylbenzene, mg/l	0.00083	---
Xylenes, Total, mg/l	0.0019	---

SEVERN TRENT SERVICES
STL Savannah
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LOG NO: S1-10886
Received: 15 FEB 01
Reported: 06 MAR 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 15481036

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-25	Method Detection Limit (MDL)	
10886-19	Accuracy (Mean % Rec)	

PARAMETER	10886-25	10886-19
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/l	0.00036	69 %
2-Chloronaphthalene, mg/l	0.00039	---
Acenaphthylene, mg/l	0.00033	86 %
Acenaphthene, mg/l	0.00025	82 %
Fluorene, mg/l	0.00038	90 %
Hexachlorobenzene, mg/l	0.00019	---
Phenanthrene, mg/l	0.00033	90 %
Anthracene, mg/l	0.00033	90 %
Di-n-butylphthalate, mg/l	0.00026	---
Fluoranthene, mg/l	0.00033	85 %
Pyrene, mg/l	0.00053	89 %
bis(2-Ethylhexyl)phthalate, mg/l	0.00048	---
Chrysene, mg/l	0.00044	82 %
Benzo(a)anthracene, mg/l	0.00030	94 %
Benzo(b)fluoranthene, mg/l	0.00028	89 %
Benzo(k)fluoranthene, mg/l	0.00072	86 %
Benzo(a)pyrene, mg/l	0.00041	100 %
Indeno(1,2,3-cd)pyrene, mg/l	0.00056	81 %
Dibenzo(a,h)anthracene, mg/l	0.00080	79 %
Benzo(g,h,i)perylene, mg/l	0.00068	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-25	Method Detection Limit (MDL)	
10886-19	Accuracy (Mean % Rec)	

PARAMETER	10886-25	10886-19
2-Chlorophenol, mg/l	0.00024	89 %
Phenol, mg/l	0.00028	87 %
2,4-Dimethylphenol, mg/l	0.00039	97 %
Pentachlorophenol, mg/l	0.0040	73 %
2-Methylphenol (o-Cresol), mg/l	0.00029	96 %
2-Methylnaphthalene, mg/l	0.00033	---
2,4,5-Trichlorophenol, mg/l	0.00074	92 %
Dibenzofuran, mg/l	0.00029	---
Carbazole, mg/l	0.00054	100 %
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	0.00071	92 %
Tetrachlorophenols, mg/l	0.00061	84 %
Arsenic (6010), mg/l	0.0032	101 %
Chromium (6010), mg/l	0.0017	104 %
Copper (6010), mg/l	0.00090	103 %
Arsenic, (Dissolved) (6010), mg/l	0.0032	101 %
Chromium, (Dissolved) (6010), mg/l	0.0017	104 %

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Project: WILMINGTON
Sampled By: Client
Code: 15481036

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-20	Precision (%RPD)	
10886-21	Analyst Initials	

PARAMETER	10886-20	10886-21
Volatiles by GC/MS (8260)		
Benzene	12 %	Paul Grimm
Toluene	6 %	Paul Grimm
Methylene chloride (Dichloromethane)	---	Paul Grimm
Acetone	---	Paul Grimm
Chloroform	---	Paul Grimm
2-Butanone (MEK)	---	Paul Grimm
Bromodichloromethane	---	Paul Grimm
1,1,2,2-Tetrachloroethane	---	Paul Grimm
1,2-Dichloropropane	---	Paul Grimm
1,1,2-Trichloroethane	---	Paul Grimm
Ethylbenzene	---	Paul Grimm
Xylenes, Total	---	Paul Grimm

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-20	Precision (%RPD)	
10886-21	Analyst Initials	

PARAMETER	10886-20	10886-21
Acid & Base Neutral Extractables (8270)		
Naphthalene	0 %	Kim Humphreys
Acenaphthylene	0 %	Kim Humphreys
Acenaphthene	0 %	Kim Humphreys
Fluorene	1.1 %	Kim Humphreys
Phenanthrene	4.4 %	Kim Humphreys
Anthracene	2.2 %	Kim Humphreys
Fluoranthene	2.4 %	Kim Humphreys
Pyrene	4.5 %	Kim Humphreys
Chrysene	1.2 %	Kim Humphreys
Benzo(a)anthracene	1.0 %	Kim Humphreys
Benzo(b)fluoranthene	0 %	Kim Humphreys
Benzo(k)fluoranthene	1.2 %	Kim Humphreys
Benzo(a)pyrene	0 %	Kim Humphreys
Indeno(1,2,3-cd)pyrene	2.5 %	Kim Humphreys
Dibenzo(a,h)anthracene	0 %	Kim Humphreys
2-Chlorophenol	6.7 %	Kim Humphreys
Phenol	9.2 %	Kim Humphreys
2,4-Dimethylphenol	6.2 %	Kim Humphreys
Pentachlorophenol	2.7 %	Kim Humphreys
2-Methylphenol (o-Cresol)	7.2 %	Kim Humphreys
2,4,5-Trichlorophenol	2.2 %	Kim Humphreys

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Project: WILMINGTON
Sampled By: Client
Code: 15571036

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-20	Precision (%RPD)	
10886-21	Analyst Initials	

PARAMETER	10886-20	10886-21
Carbazole	0 %	Kim Humphreys
3-Methylphenol/4-Methylphenol (m&p-Cresol)	8.7 %	Kim Humphreys
Tetrachlorophenols	1.2 %	Kim Humphreys
2-Chloronaphthalene	---	Kim Humphreys
Hexachlorobenzene	---	Kim Humphreys
Di-n-butylphthalate	---	Kim Humphreys
bis(2-Ethylhexyl)phthalate	---	Kim Humphreys
Benzo(g,h,i)perylene	---	Kim Humphreys
2-Methylnaphthalene	---	Kim Humphreys
Dibenzofuran	---	Kim Humphreys
Arsenic (6010)	0.045 %	Susan Norwood
Chromium (6010)	0.11 %	Susan Norwood
Copper (6010)	0.11 %	Susan Norwood
Arsenic, (Dissolved) (6010)	0.045 %	Susan Norwood
Chromium, (Dissolved) (6010)	0.11 %	Susan Norwood

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Sampled By: Client
Code: 15571036

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-22	EPA Method Numbers	
10886-23	Dates Extracted	

PARAMETER	10886-22	10886-23
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane)	8260	---
Acetone	8260	---
Chloroform	8260	---
2-Butanone (MEK)	8260	---
Bromodichloromethane	8260	---
1,1,2,2-Tetrachloroethane	8260	---
1,2-Dichloropropane	8260	---
1,1,2-Trichloroethane	8260	---
Benzene	8260	---
Toluene	8260	---
Ethylbenzene,	8260	---
Xylenes, Total	8260	---

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Sampled By: Client
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-22	EPA Method Numbers	
10886-23	Dates Extracted	

PARAMETER	10886-22	10886-23
Acid & Base Neutral Extractables (8270)		
Naphthalene	8270C	02.16.01
2-Chloronaphthalene	8270C	02.16.01
Acenaphthylene	8270C	02.16.01
Acenaphthene	8270C	02.16.01
Fluorene	8270C	02.16.01
Hexachlorobenzene	8270C	02.16.01
Phenanthrene	8270C	02.16.01
Anthracene	8270C	02.16.01
Di-n-butylphthalate	8270C	02.16.01
Fluoranthene	8270C	02.16.01
Pyrene	8270C	02.16.01
bis(2-Ethylhexyl)phthalate	8270C	02.16.01
Chrysene	8270C	02.16.01
Benzo(a)anthracene	8270C	02.16.01
Benzo(b)fluoranthene	8270C	02.16.01
Benzo(k)fluoranthene	8270C	02.16.01
Benzo(a)pyrene	8270C	02.16.01
Indeno(1,2,3-cd)pyrene	8270C	02.16.01
Dibenzo(a,h)anthracene	8270C	02.16.01
Benzo(g,h,i)perylene	8270C	02.16.01
2-Chlorophenol	8270C	02.16.01

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-22	EPA Method Numbers	
10886-23	Dates Extracted	

PARAMETER	10886-22	10886-23
Phenol	8270C	02.16.01
2,4-Dimethylphenol	8270C	02.16.01
Pentachlorophenol	8270C	02.16.01
2-Methylphenol (o-Cresol)	8270C	02.16.01
2-Methylnaphthalene	8270C	02.16.01
2,4,5-Trichlorophenol	8270C	02.16.01
Dibenzofuran	8270C	02.16.01
Carbazole	8270C	02.16.01
3-Methylphenol/4-Methylphenol (m&p-Cresol)	8270C	02.16.01
Tetrachlorophenols	8270C	02.16.01
Arsenic (6010)	6010	---
Chromium (6010)	6010	---
Copper (6010)	6010	---
Arsenic, (Dissolved) (6010)	6010	---
Chromium, (Dissolved) (6010)	6010	---

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Project: WILMINGTON
Sampled By: Client
Code: 15571036

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-24	Dates Analyzed	

PARAMETER	10886-24
Volatiles by GC/MS (8260)	
Methylene chloride (Dichloromethane)	02.16.01
Acetone	02.16.01
Chloroform	02.16.01
2-Butanone (MEK)	02.16.01
Bromodichloromethane	02.16.01
1,1,2,2-Tetrachloroethane	02.16.01
1,2-Dichloropropane	02.16.01
1,1,2-Trichloroethane	02.16.01
Benzene	02.16.01
Toluene	02.16.01
Ethylbenzene	02.16.01
Xylenes, Total	02.16.01

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Sampled By: Client
Code: 15571036

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-24	Dates Analyzed	

PARAMETER	10886-24
Acid & Base Neutral Extractables (8270)	
Naphthalene	02.27.01
2-Chloronaphthalene	02.27.01
Acenaphthylene	02.27.01
Acenaphthene	02.27.01
Fluorene	02.27.01
Hexachlorobenzene	02.27.01
Phenanthrene	02.27.01
Anthracene	02.27.01
Di-n-butylphthalate	02.27.01
Fluoranthene	02.27.01
Pyrene	02.27.01
bis(2-Ethylhexyl)phthalate	02.27.01
Chrysene	02.27.01
Benzo(a)anthracene	02.27.01
Benzo(b)fluoranthene	02.27.01
Benzo(k)fluoranthene	02.27.01
Benzo(a)pyrene	02.27.01
Indeno(1,2,3-cd)pyrene	02.27.01
Dibenzo(a,h)anthracene	02.27.01
Benzo(g,h,i)perylene	02.27.01
2-Chlorophenol	02.27.01
Phenol	02.27.01

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10886-24	Dates Analyzed	

PARAMETER	10886-24
2,4-Dimethylphenol	02.27.01
Pentachlorophenol	02.27.01
2-Methylphenol (o-Cresol)	02.27.01
2-Methylnaphthalene	02.27.01
2,4,5-Trichlorophenol	02.27.01
Dibenzofuran	02.27.01
Carbazole	02.27.01
3-Methylphenol/4-Methylphenol (m&p-Cresol)	02.27.01
Tetrachlorophenols	02.27.01
Arsenic (6010)	02.19.01
Chromium (6010)	02.19.01
Copper (6010)	02.19.01
Arsenic, (Dissolved) (6010)	02.19.01
Chromium, (Dissolved) (6010)	02.19.01

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.
Methods: EPA SW-846
ND = Not Detected

Gloria D. Fulwood

Gloria D. Fulwood, Project Manager

STANDARDIZED GROUNDWATER PURGING AND SAMPLING FIELD DATA SHEET

WELL ID	WATER LEVEL DATE TIME	WATER LEVEL DEPTH (TOC)	WELL DEPTH (TOC)	FLOATER THICKNESS (FT)	SINKER THICKNESS (FT)	ODOR*	CALIBRATION pH	CALIBRATION COND	PURGING DATE	PURGING TIME	PURGE METHOD	CALC. PURGE VOL.	VOL. PURGED (GAL)	TEMP (C)	COND (UMHOS)	pH	TURB**	SAMPLING DATE	SAMPLING TIME	SAMP. INT.	DO	REMARKS	ORP
MW 20A	2/13 7:19	2.98	32.97				4/7	1410	2/13	13:42	Sub	4.89	10	17	232	6.20	7.0	2/13	14:15	GBK	1.87		-023
													5	17	231	6.90	3.48				1.45		-017
													10	17	235	6.70	6.01				1.23		-024
MW 23	2/13 7:25	2.64	11.64						2/13	14:30	Bailer	1.46	1.5	13	710	6.98	59.1	2/13	14:55	GBK	2.21		-041
													1.5	13	724	6.52	141				1.57		-036
													1.5	13	730	6.57	159				2.01		-058
MW 31	2/13 7:40	4.77	16.09						2/13	15:15	Peri	1.85	2	15	268	6.70	90.3	2/13	15:50	GBK	1.25		-024
													4	15	278	6.78	12.1				1.33		-052
													5	15	293	6.75	9.44				1.31		-046
MW 32	2/13 7:42	4.73	46.71			slight			2/13	15:15	Peri	6.84	7	16.5	314	7.08	6.64	2/13	16:20	GBK	2.06		-093
													7	16.5	319	7.05	6.72				2.24		-071
													7	16.5	302	7.00	6.09				1.47		0.17
MW 33	2/13 7:44	4.63	55.88						2/13	15:15	Sub	8.35 Sub	18	17	346	6.72	10.8	2/13	15:40	GBK	1.58		-021
													9	17	349	7.73	6.35				1.97		-086
													18	17	349	5.30	6.01				1.35		-094
MW 30	2/13 7:48	4.15	11.0						2/13	16:40	Bail	1.12	1.30	13	358	6.17	105.6	2/13	16:55	GBK	1.25		057
													2.5	12	369	6.21	95.8				1.26		034
													1.35	12	324	6.22	97.2				1.81		033
MW 25	2/14 10:40	2.22	15.05				4/7	1410	2/14	10:50	Bail	2.09	2.35	15	522	8.22	99.3	2/14	16:30	GBK	2.73		046
																						Dry 2.25 gallons	
MW 28	2/14 8:14	2.82	15.06						2/14	8:15	Bailer	2.0	3.0	12	743	6.37	31.0	2/14	8:30	GBK	3.31		011
													4.0	12.5	735	6.56	93.1				6.35		-022
													3.0	12.5	733	6.59	80.0				1.44		-031
MW 28A	2/14 8:16	4.09	27.45						2/14	8:40	Bailer	3.80	4.0	16	186	6.54	41.5	2/14	8:55	GBK	3.40		-028
													4.0	16	176	6.66	28.6				1.96		009
													4.0	16	164	6.61	10.0				1.55		026

Note descrepencies from below comments in the remarks section for each well:
- Well Locked
- Bailer Present
- Bottles Labeled
- Samples Iced
- Reference Point Inspected
- Well Casing Inspected
- Well Pad Inspected

Check When Complete:
- ____ Copy of All Notes Sent with Samples To Lab
- ____ Log Numbers Obtained For Samples
- ____ Samples Shipped FedEx Priority Overnight Daily
- ____ Confirmed Samples Arrived At Lab
- ____ All Data Recorded With An Indelible Waterproof Pen
- ____ Custody Form Completed
- ____ Cooler Sealed
- ____ All Purge Water Disposed Of At Designated Location
- ____ All Sampling Derived Waste Disposed as Potentially Hazardous Waste (i.e. gloves, plastic, twine, etc..)

SITE: SWP-Williamsplain
WEATHER: Cloudy 60°
COLLECTOR'S SIGN.: Diego Bikuto
DATE/TIME: 2/14/01 16:30 2001

*Very slight (VS), Slight (S), Moderate (M), Strong (ST), Very Strong (VST)
**Clear (C), Slight Turbid (ST), Turbid (T), Very Turbid (VT)

STANDARDIZED GROUNDWATER PURGING AND SAMPLING FIELD DATA SHEET

WELL ID	WATER LEVEL DATE TIME	WATER LEVEL DEPTH (TOC)	WELL DEPTH (TOC)	FLOATER THICKNESS (FT)	SINKER THICKNESS (FT)	ODOR*	CALIBRATION pH	CALIBRATION COND	PURGING DATE	PURGING TIME	PURGE METHOD	CALC. PURGE VOL.	VOL. PURGED (GAL)	TEMP (C)	COND (UMHOS)	pH	TURB**	SAMPLING DATE	SAMPLING TIME	SAMP. INT.	DO	ORP	REMARKS
MW 37	2/14 9:05	4.42	17.10				4/7	1410	2/14	9:10	Peri	2.06	2.25	15.5	532	6.37	11.1	2/14	9:45	GBK	1.54	035	
													2.25	15.5	566	6.41	8.74				1.53	019	
													2.25	15.5	596	6.51	7.59				1.47	003	
MW 38	2/14 9:03	4.47	27.00						2/14	9:10	Peri	3.67	4.0	18	185	5.39	16.6	2/14	10:00	GBK	1.16	050	
													4.0	18	205	5.93	13.2				1.08	037	
													4.0	18	196	5.95	9.27				0.96	057	
MW 39	2/14 9:01	1.43	52.45						2/14	9:10	Sub	8.32	9.0	18	210	7.12	126	2/14	10:15	GBK	1.82	001	
													9.0	18	218	7.24	24.4				1.39	-026	
													9.0	18	211	7.17	22.2				0.94	028	
MW 40	2/14 7:40	6.25	16.60			slight yellow color			2/14	11:20	Low Flow Peri	1.69	2.0	14.6	340	6.6	87.3	2/14	11:55	GBK	2.58	026	
													2.0	14.6	350	6.5	8.56				2.10	-014	
													2.0	14.6	350	6.5	7.31				1.97	-005	
MW 41	2/14 7:58	5.37	40.28						2/14	11:45	Sub	5.70	6.0	18	198	6.82	9.39	2/14	12:20	GBK	1.01	-008	
													6.0	18	197	6.84	6.89				1.07	-006	
													12.0	18	197	6.84	6.50				1.02	-003	
MW 42	2/14 7:36	5.29	67.13						2/14	11:25	Sub	10.08	11	17	292	6.87	6.15	2/14	12:10	GBK	1.89	-028	
													11	17	292	7.07	6.20				[illegible]	-023	
													11	17	296	7.04	6.06				1.08	-042	
MW 18	2/14 7:07	4.58	13.43						2/14	13:10	Bail	1.44	2.0	13	1859	6.13	52.2	2/14	13:25	GBK	1.76	076	
													2.0	13	1929	6.19	48.9				1.59	054	
													2.0	13	1920	6.26	60.6				1.88	035	
MW 22A	2/14 13:45	3.28	33.70						2/14	14:00	Sub	4.96	5	19	194	5.48	7.88	2/14	14:15	GBK	1.93	078	
													10	19	196	5.45	7.55				1.74	078	
													10	19	200	5.51	6.59				1.58	059	
MW 16	2/14 14:51	5.35	14.10						2/14	14:57	Peri	1.42	2.0	15	1472	5.99	18.1	2/14	15:20	GBK	1.98	083	
													4.0	15	1440	6.05	9.18				1.65	038	
													2.0	15	1447	6.09	5.36				1.17	032	

Note descrepencies from below comments in the remarks section for each well:

- Well Locked
- Bailer Present
- Bottles Labeled
- Samples Iced
- Reference Point Inspected
- Well Casing Inspected
- Well Pad Inspected

Check When Complete:

- ____ Copy of All Notes Sent with Samples To Lab
- ____ Log Numbers Obtained For Samples
- ____ Samples Shipped FedEx Priority Overnight Daily
- ____ Confirmed Samples Arrived At Lab
- ____ All Data Recorded With An Indelible Waterproof Pen
- ____ Custody Form Completed
- ____ Cooler Sealed
- ____ All Purge Water Disposed Of At Designated Location
- ____ All Sampling Derived Waste Disposed as Potentially Hazardous Waste (i.e. gloves, plastic, twine, etc..)

SITE: SWP-Wilmington

WEATHER: Cloudy 60°

COLLECTOR'S SIGN.: Gregory B. Kurtz

DATE/TIME: 2/14/01 16:30 2001

*Very slight (VS), Slight (S), Moderate (M), Strong (ST), Very Strong (VST)

**Clear (C), Slight Turbid (ST), Turbid (T), Very Turbid (VT)

PAGE ____ OF ____

STANDARDIZED GROUNDWATER PURGING AND SAMPLING FIELD DATA SHEET

WELL ID	WATER LEVEL DATE TIME	WATER LEVEL DEPTH (TOC)	WELL DEPTH (TOC)	FLOATER THICKNESS (FT)	SINKER THICKNESS (FT)	ODOR*	CALIBRATION pH	CALIBRATION COND	PURGING DATE	PURGING TIME	PURGE METHOD	CALC. PURGE VOL.	VOL. PURGED (GAL)	TEMP (C)	COND (UMHOS)	pH	TURB**	SAMPLING DATE	SAMPLING TIME	SAMP. INT.	REMARKS DO	REMARKS ORP
MW-13	2/14 13:47	4.55	13.94			slight	4/7	1410	2/14	14:00	Peri	1.53	2.0	14	1036	6.22	53.9	2/14	14:40	GBK	1.87	059
													4.0	14	1090	6.21	45.5				1.36	014
													6.0	14	1114	6.34	37.5				1.31	000
MW 17	2/14 14:48	5.23	14.50			slight Diesel			2/14	14:50	Peri	1.51	2.0	12.3	1030	6.5	22	2/14	15:40	GBK	2.05	063
													2.0	12.3	1010	6.3	9.55				1.75	024
													2.0	12.3	1020	6.3	8.99				1.30	019

Note descrepancies from below comments in the remarks section for each well:
- Well Locked
- Bailer Present
- Bottles Labeled
- Samples Iced
- Reference Point Inspected
- Well Casing Inspected
- Well Pad Inspected

Check When Complete:
- ____ Copy of All Notes Sent with Samples To Lab
- ____ Log Numbers Obtained For Samples
- ____ Samples Shipped FedEx Priority Overnight Daily
- ____ Confirmed Samples Arrived At Lab
- ____ All Data Recorded With An Indelible Waterproof Pen
- ____ Custody Form Completed
- ____ Cooler Sealed
- ____ All Purge Water Disposed Of At Designated Location
- ____ All Sampling Derived Waste Disposed as Potentially Hazardous Waste (i.e. gloves, plastic, twine, etc..)

SITE: _____
WEATHER: _____
COLLECTOR'S SIGN.: _____
DATE/TIME: _____

*Very slight (VS), Slight (S), Moderate (M), Strong (ST), Very Strong (VST)
**Clear (C), Slight Turbid (ST), Turbid (T), Very Turbid (VT)

PAGE_____OF_____

Serial Number 002026

SEVERN TRENT SERVICES

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Severn Trent Laboratories, Inc.

- [X] 5102 LaRoche Avenue, Savannah, GA 31404 — Phone: (912) 354-7858 — Fax: (912) 352-0165
- [ ] 2846 Industrial Plaza Drive, Tallahassee, FL 32301 — Phone: (850) 878-3994 — Fax: (850) 878-9504
- [ ] 900 Lakeside Drive, Mobile, AL 36693 — Phone: (334) 666-6633 — Fax: (334) 666-6696
- [ ] 6712 Benjamin Road, Suite 100, Tampa, FL 33634 — Phone: (813) 885-7427 — Fax: (813) 885-7049

PROJECT REFERENCE: SWP-Wilmington	PROJECT NO.: 979007.A0-29	PROJECT LOCATION (STATE): NC
STL (LAB) PROJECT MANAGER: G. Fulwood	P.O. NUMBER:	CONTRACT NO.:
CLIENT (SITE): Southernwood Piedmont	CLIENT PHONE: 864-599-1070	CLIENT FAX: 864-599-1087
CLIENT NAME: Bill Arrants	CLIENT E-MAIL: william.arrants@rayonier.com	
CLIENT ADDRESS: P.O. Box 5447 Spartanburg, SC 29304		
COMPANY CONTRACTING THIS WORK (if applicable):		

MATRIX TYPE: Liquid

REQUIRED ANALYSIS: SVOC; Cr, Cu & As; VOC; Dissolved As/Cr

PRESERVATIVE: none; nitric acid; HCL; none

PAGE 1 OF 2

STANDARD REPORT DELIVERY [X]
DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE) [ ]
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	SVOC	Cr, Cu & As	VOC	Dissolved As/Cr	REMARKS
2/14/01	8:30	MW-28 SWP Log# 17543	2	1	3	1	*Wilmington Site
	8:55	MW-28A 17544					Specific Constituent
	9:45	MW-37 17545					List
	9:35	Equip 21401 ----					
	9:45	MW-37-Dup ----					
	10:00	MW-38 17546					
	10:15	MW-39 17547					
	11:55	MW-40 17548			1		
	12:20	MW-41 17549					
	12:10	MW-42 17550					
	13:25	MW-18 17551			1		
	16:30	MW-25 17552					
	14:25	MW-22A 17553					

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[illegible]			[illegible] B. King	2/14/01	18:00			

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
[illegible]								

LABORATORY USE ONLY

RECEIVED FOR LABORATORY USE BY (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	STL SL LOG NO.	LABORATORY REMARKS
[illegible]	2/15/01	9:05	YES / NO		51-10886	

Serial Number 002023

SEVERN TRENT SERVICES

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Severn Trent Laboratories, Inc.

- [x] 5102 LaRoche Avenue, Savannah, GA 31404 — Phone: (912) 354-7858 — Fax: (912) 352-0165
- [ ] 2846 Industrial Plaza Drive, Tallahassee, FL 32301 — Phone: (850) 878-3994 — Fax: (850) 878-9504
- [ ] 900 Lakeside Drive, Mobile, AL 36693 — Phone: (334) 666-6633 — Fax: (334) 666-6696
- [ ] 6712 Benjamin Road, Suite 100, Tampa, FL 33634 — Phone: (813) 885-7427 — Fax: (813) 885-7049

PROJECT REFERENCE: SWP-Wilmington	PROJECT NO.: 979007.A0-29	PROJECT LOCATION (STATE): NC
STL (LAB) PROJECT MANAGER: G. Fulwood	P.O. NUMBER:	CONTRACT NO.:
CLIENT (SITE): Southern Wood Piedmont	CLIENT PHONE: 864-599-1070	CLIENT FAX: 864-599-1087
CLIENT NAME: Bill Arrants	CLIENT E-MAIL: william.arrants@rayonier.com	
CLIENT ADDRESS: P.O. Box 5447 Spartanburg, SC 29304		
COMPANY CONTRACTING THIS WORK (if applicable): Schnabel Engineering - Greg Kuntz		

MATRIX TYPE: Liquid

REQUIRED ANALYSIS / PRESERVATIVE: SVOC (none); Cr, Cu & As (nitric acid); VOC (HCl)

PAGE 2 OF 2

STANDARD REPORT DELIVERY [x]
DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE) [ ]
DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	SVOC	Cr, Cu & As	VOC	REMARKS
2/14/01	14:40	MW-13 SWP-Log # 17554	2	1	3	*Wilmington Site
↓	15:20	MW-16 17555	↓	↓	↓	Specific Constituent
↓	15:40	MW-17 17556	↓	↓	↓	List

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]			Megan B. Kuntz	2/14/01	18:00			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS								

LABORATORY USE ONLY

RECEIVED FOR LABORATORY USE BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	STL-SL LOG NO.	LABORATORY REMARKS
[signature]	2/15/01	9:05	YES / NO		21-1088	

FedEx USA Airbill FedEx Tracking Number 824136804960

Form I.D. No. 0215 — Sender's Copy

1 From *Please print and press hard.*

Date 2-15-01 Sender's FedEx Account Number 2181-1829-1

Sender's Name Danny Rawl Phone (803) 796-6240

Company SCHNABEL ENGINEERING ASSOC

Address 104 CORPORATE BLVD STE 420 Dept./Floor/Suite/Room

City WEST COLUMBIA State SC ZIP 29169

2 Your Internal Billing Reference First 24 characters will appear on invoice. 979007.A0-29

3 To Recipient's Name Gloria Fulwood Phone (912) 354-7858

Company Severn Trent Labs

Address 5102 LaRoche Avenue

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

City Savannah State Ga. ZIP 31404

PASTE PACKAGE LABEL HERE USA AIRBILL

See back for application instructions.

Questions? Call 1·800·Go·FedEx* (800-463-3339)

Visit our Web site at www.fedex.com

By using this Airbill you agree to the service conditions on the back of this Airbill and in our current Service Guide, including terms that limit our liability.

0156288956

4a Express Package Service *Packages up to 150 lbs.* Delivery commitment may be later in some areas.

- [X] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

* FedEx Envelope/Letter Rate not available. Minimum charge: One-pound rate

4b Express Freight Service *Packages over 150 lbs.* Delivery commitment may be later in some areas.

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation: _____

5 Packaging * Declared value limit $500

- [ ] FedEx Envelope/Letter*
- [ ] FedEx Pak*
- [X] Other Pkg. — Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling Include FedEx address in Section 3.

- [ ] SATURDAY Delivery — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] SUNDAY Delivery — Available for FedEx Priority Overnight to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available with FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Dangerous Goods cannot be shipped in FedEx packaging.

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [X] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

FedEx Acct. No. / Credit Card No. Exp. Date

Total Packages	Total Weight	Total Declared Value†
3	150	$ .00

†Our liability is limited to $100 unless you declare a higher value. See back for details.

FedEx Use Only

8 Release Signature *Sign to authorize delivery without obtaining signature.*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

402

Rev. Date 7/00 • Part #156912G • © 1994-2000 FedEx • PRINTED IN U.S.A. GBFE 9/00

PULL AND RETAIN THIS COPY BEFORE AFFIXING TO THE PACKAGE.

STL
Savannah Laboratories
a division of Severn Trent Laboratories, Inc.

Greg,
SW ID # corrected
for sample S1-10927-7
MW-24A

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MAR 0 8 2001

5102 LaRoche Avenue • Savannah, GA 31404 • Tel: 912 354 7858 • Fax: 912 352 0165 • www.stl-inc.com

SEVERN TRENT SERVICES
STL Savannah

LOG NO: S1-10927
Received: 16 FEB 01
Reported: 02 MAR 01
Revised: 06 MAR 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON/SWP
Sampled By: Client
Code: 12131036
Page 10

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-7	MW-24A (#17565)	02-15-01/10:45
10927-8	MW-19 (#17566)	02-15-01/11:20

PARAMETER	10927-7	10927-8
TCL Semivolatiles (8270)		
Phenol, mg/l	ND	ND
2-Chlorophenol, mg/l	ND	ND
2-Methylphenol (o-Cresol), mg/l	ND	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	ND	ND
2,4-Dimethylphenol, mg/l	ND	ND
Naphthalene, mg/l	ND	0.14
2-Methylnaphthalene, mg/l	0.00047J	0.0067J
2-Chloronaphthalene, mg/l	ND	ND
Acenaphthylene, mg/l	ND	ND
Acenaphthene, mg/l	0.00074J	0.17
Dibenzofuran, mg/l	0.00073J	0.0080J
Fluorene, mg/l	ND	0.036
Hexachlorobenzene, mg/l	ND	ND
Pentachlorophenol, mg/l	ND	ND
Phenanthrene, mg/l	0.0024J	0.024
Anthracene, mg/l	ND	0.0022J
Di-n-butylphthalate, mg/l	ND	ND
Fluoranthene, mg/l	0.00050J	0.0015J
Pyrene, mg/l	ND	0.00079J
Benzo(a)anthracene, mg/l	ND	0.00032J

SEVERN TRENT SERVICES
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Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON/SWP
Sampled By: Client
Code: 12131036

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-7	MW-24A (#17565)	02-15-01/10:45
10927-8	MW-19 (#17566)	02-15-01/11:20

PARAMETER	10927-7	10927-8
bis(2-Ethylhexyl)phthalate, mg/l	ND	ND
Chrysene, mg/l	ND	ND
Benzo(b)fluoranthene, mg/l	ND	ND
Benzo(k)fluoranthene, mg/l	ND	ND
Benzo(a)pyrene, mg/l	ND	ND
Indeno(1,2,3-cd)pyrene, mg/l	ND	ND
Dibenzo(a,h)anthracene, mg/l	ND	ND
Benzo(g,h,i)perylene, mg/l	ND	ND
Carbazole, mg/l	ND	0.0016J
Tetrachlorophenols, mg/l	ND	ND
Dilution factor	1	1
Chromium (6010), mg/l	ND	0.0051B
Copper (6010), mg/l	0.0019B	0.0031B
Arsenic (6010), mg/l	ND	0.0034B

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Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON/SWP
Sampled By: Client
Code: 12131036

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-7	MW-24A (#17565)	02-15-01/10:45
10927-8	MW-19 (#17566)	02-15-01/11:20

PARAMETER	10927-7	10927-8
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/l	ND	ND
Acetone, mg/l	0.016J	ND
Chloroform, mg/l	ND	ND
2-Butanone (MEK), mg/l	ND	ND
Bromodichloromethane, mg/l	ND	ND
1,1,2,2-Tetrachloroethane, mg/l	ND	ND
1,2-Dichloropropane, mg/l	ND	ND
1,1,2-Trichloroethane, mg/l	ND	ND
Benzene, mg/l	ND	ND
Toluene, mg/l	ND	ND
Ethylbenzene, mg/l	ND	0.0019J
Xylenes, Total, mg/l	ND	0.00092J
Field Information		
Date Collected	02.15.01	02.15.01
pH (Taken in Field)	5.75	6.00
Specific Conductance (Taken in Field)	280	678
Temperature when sampled, Degrees C	18.6	15.8

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Received: 16 FEB 01
Reported: 02 MAR 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON/SWP
Sampled By: Client
Code: 14191032

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-1	MW-29 (#17559)	02-15-01/08:10
10927-2	MW-29A (#17560)	02-15-01/08:25

PARAMETER	10927-1	10927-2
TCL Semivolatiles (8270)		
Phenol, mg/l	ND	ND
2-Chlorophenol, mg/l	ND	ND
2-Methylphenol (o-Cresol), mg/l	ND	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	ND	ND
2,4-Dimethylphenol, mg/l	ND	ND
Naphthalene, mg/l	ND	ND
2-Methylnaphthalene, mg/l	ND	ND
2-Chloronaphthalene, mg/l	ND	ND
Acenaphthylene, mg/l	ND	ND
Acenaphthene, mg/l	ND	0.12
Dibenzofuran, mg/l	ND	0.048
Fluorene, mg/l	ND	0.056
Hexachlorobenzene, mg/l	ND	ND
Pentachlorophenol, mg/l	ND	ND
Phenanthrene, mg/l	ND	0.0015J
Anthracene, mg/l	ND	0.0020J
Di-n-butylphthalate, mg/l	0.00026J	ND
Fluoranthene, mg/l	0.0011J	0.0016J
Pyrene, mg/l	0.0011J	0.00087J
Benzo(a)anthracene, mg/l	0.0011J	0.00083J

SEVERN TRENT SERVICES

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STL Savannah

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Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON/SWP
Sampled By: Client
Code: 14191032

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-1	MW-29 (#17559)	02-15-01/08:10
10927-2	MW-29A (#17560)	02-15-01/08:25

PARAMETER	10927-1	10927-2
bis(2-Ethylhexyl)phthalate, mg/l	ND	0.00064J
Chrysene, mg/l	0.0012J	0.00094J
Benzo(b)fluoranthene, mg/l	0.00074J	ND
Benzo(k)fluoranthene, mg/l	0.0011J	ND
Benzo(a)pyrene, mg/l	0.0011J	ND
Indeno(1,2,3-cd)pyrene, mg/l	0.0025J	0.0010J
Dibenzo(a,h)anthracene, mg/l	0.0024J	0.0012J
Benzo(g,h,i)perylene, mg/l	0.0025J	0.0014J
Carbazole, mg/l	0.0011J	0.0072J
Tetrachlorophenols, mg/l	ND	ND
Dilution factor	1	1
Chromium (6010), mg/l	0.029	ND
Copper (6010), mg/l	0.0045B	0.0035B
Arsenic (6010), mg/l	0.0061B	ND

SEVERN TRENT SERVICES

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STL Savannah

LOG NO: S1-10927
Received: 16 FEB 01
Reported: 02 MAR 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON/SWP
Sampled By: Client
Code: 14191032

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-1	MW-29 (#17559)	02-15-01/08:10
10927-2	MW-29A (#17560)	02-15-01/08:25

PARAMETER	10927-1	10927-2
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/l	ND	ND
Acetone, mg/l	ND	ND
Chloroform, mg/l	ND	ND
2-Butanone (MEK), mg/l	ND	ND
Bromodichloromethane, mg/l	ND	ND
1,1,2,2-Tetrachloroethane, mg/l	ND	ND
1,2-Dichloropropane, mg/l	ND	ND
1,1,2-Trichloroethane, mg/l	ND	ND
Benzene, mg/l	ND	ND
Toluene, mg/l	ND	ND
Ethylbenzene, mg/l	ND	ND
Xylenes, Total, mg/l	ND	ND
Field Information		
Date Collected	02.15.01	02.15.01
pH (Taken in Field)	5.54	6.62
Specific Conductance (Taken in Field)	1797	276
Temperature when sampled, Degrees C	13	18

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LOG NO: S1-10927
Received: 16 FEB 01
Reported: 02 MAR 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON/SWP
Sampled By: Client
Code: 14191032

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-3	MW-34 (#17561)	02-15-01/09:30
10927-4	MW-35 (#17562)	02-15-01/09:50

PARAMETER	10927-3	10927-4
TCL Semivolatiles (8270)		
Phenol, mg/l	ND	ND
2-Chlorophenol, mg/l	ND	ND
2-Methylphenol (o-Cresol), mg/l	ND	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	ND	ND
2,4-Dimethylphenol, mg/l	ND	ND
Naphthalene, mg/l	ND	ND
2-Methylnaphthalene, mg/l	0.00048J	ND
2-Chloronaphthalene, mg/l	ND	ND
Acenaphthylene, mg/l	ND	ND
Acenaphthene, mg/l	0.064	0.050
Dibenzofuran, mg/l	0.0030J	0.0029J
Fluorene, mg/l	0.014	0.0025J
Hexachlorobenzene, mg/l	ND	ND
Pentachlorophenol, mg/l	ND	ND
Phenanthrene, mg/l	0.0064J	0.00097J
Anthracene, mg/l	0.0016J	ND
Di-n-butylphthalate, mg/l	ND	ND
Fluoranthene, mg/l	0.011	0.0046J
Pyrene, mg/l	0.0061J	0.0027J
Benzo(a)anthracene, mg/l	0.0012J	0.00090J

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-3	MW-34 (#17561)	02-15-01/09:30
10927-4	MW-35 (#17562)	02-15-01/09:50

PARAMETER	10927-3	10927-4
bis(2-Ethylhexyl)phthalate, mg/l	ND	ND
Chrysene, mg/l	0.0012J	0.00087J
Benzo(b)fluoranthene, mg/l	ND	ND
Benzo(k)fluoranthene, mg/l	ND	ND
Benzo(a)pyrene, mg/l	ND	ND
Indeno(1,2,3-cd)pyrene, mg/l	ND	ND
Dibenzo(a,h)anthracene, mg/l	ND	ND
Benzo(g,h,i)perylene, mg/l	0.00070J	ND
Carbazole, mg/l	0.00077J	ND
Tetrachlorophenols, mg/l	ND	ND
Dilution factor	1	1
Chromium (6010), mg/l	0.0023B	0.0029B
Copper (6010), mg/l	0.0033B	0.0051B
Arsenic (6010), mg/l	ND	ND

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-3	MW-34 (#17561)	02-15-01/09:30
10927-4	MW-35 (#17562)	02-15-01/09:50

PARAMETER	10927-3	10927-4
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/l	ND	ND
Acetone, mg/l	ND	ND
Chloroform, mg/l	ND	ND
2-Butanone (MEK), mg/l	ND	ND
Bromodichloromethane, mg/l	ND	ND
1,1,2,2-Tetrachloroethane, mg/l	ND	ND
1,2-Dichloropropane, mg/l	ND	ND
1,1,2-Trichloroethane, mg/l	ND	ND
Benzene, mg/l	ND	0.00038J
Toluene, mg/l	ND	ND
Ethylbenzene, mg/l	ND	0.0036J
Xylenes, Total, mg/l	ND	ND
Field Information		
Date Collected	02.15.01	02.15.01
pH (Taken in Field)	5.8	6.68
Specific Conductance (Taken in Field)	370	229
Temperature when sampled, Degrees C	16.8	19

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Sampled By: Client
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-5	MW-36 (17563)	02-15-01/09:40
10927-6	MW-24R (#17564)	02-15-01/10:35

PARAMETER	10927-5	10927-6
TCL Semivolatiles (8270)		
Phenol, mg/l	ND	ND
2-Chlorophenol, mg/l	ND	ND
2-Methylphenol (o-Cresol), mg/l	ND	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	ND	ND
2,4-Dimethylphenol, mg/l	ND	ND
Naphthalene, mg/l	2.6	0.033
2-Methylnaphthalene, mg/l	0.77	0.037
2-Chloronaphthalene, mg/l	ND	ND
Acenaphthylene, mg/l	ND	ND
Acenaphthene, mg/l	0.48	0.17
Dibenzofuran, mg/l	0.33	0.045
Fluorene, mg/l	0.29	0.058
Hexachlorobenzene, mg/l	ND	ND
Pentachlorophenol, mg/l	ND	ND
Phenanthrene, mg/l	0.25	0.022
Anthracene, mg/l	0.022J	ND
Di-n-butylphthalate, mg/l	ND	ND
Fluoranthene, mg/l	0.023J	0.00088J
Pyrene, mg/l	0.011J	ND
Benzo(a)anthracene, mg/l	0.0031J	0.00043J

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-5	MW-36 (17563)	02-15-01/09:40
10927-6	MW-24R (#17564)	02-15-01/10:35

PARAMETER	10927-5	10927-6
bis(2-Ethylhexyl)phthalate, mg/l	ND	ND
Chrysene, mg/l	ND	ND
Benzo(b)fluoranthene, mg/l	ND	ND
Benzo(k)fluoranthene, mg/l	ND	ND
Benzo(a)pyrene, mg/l	ND	ND
Indeno(1,2,3-cd)pyrene, mg/l	ND	ND
Dibenzo(a,h)anthracene, mg/l	ND	ND
Benzo(g,h,i)perylene, mg/l	ND	ND
Carbazole, mg/l	0.20	0.013
Tetrachlorophenols, mg/l	ND	ND
Dilution factor	10	1
Chromium (6010), mg/l	0.0019B	ND
Copper (6010), mg/l	0.0051B	0.0017B
Arsenic (6010), mg/l	ND	ND

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-5	MW-36 (17563)	02-15-01/09:40
10927-6	MW-24R (#17564)	02-15-01/10:35

PARAMETER	10927-5	10927-6
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/l	ND	ND
Acetone, mg/l	ND	ND
Chloroform, mg/l	ND	ND
2-Butanone (MEK), mg/l	ND	ND
Bromodichloromethane, mg/l	ND	ND
1,1,2,2-Tetrachloroethane, mg/l	ND	ND
1,2-Dichloropropane, mg/l	ND	ND
1,1,2-Trichloroethane, mg/l	ND	ND
Benzene, mg/l	ND	ND
Toluene, mg/l	ND	ND
Ethylbenzene, mg/l	ND	ND
Xylenes, Total, mg/l	ND	ND
Field Information		
Date Collected	02.15.01	02.15.01
pH (Taken in Field)	7.59	5.97
Specific Conductance (Taken in Field)	235	898
Temperature when sampled, Degrees C	18	14.7

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-7	MW-24A (#27565)	02-15-01/10:45
10927-8	MW-19 (#17566)	02-15-01/11:20

PARAMETER	10927-7	10927-8
TCL Semivolatiles (8270)		
Phenol, mg/l	ND	ND
2-Chlorophenol, mg/l	ND	ND
2-Methylphenol (o-Cresol), mg/l	ND	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	ND	ND
2,4-Dimethylphenol, mg/l	ND	ND
Naphthalene, mg/l	ND	0.14
2-Methylnaphthalene, mg/l	0.00047J	0.0067J
2-Chloronaphthalene, mg/l	ND	ND
Acenaphthylene, mg/l	ND	ND
Acenaphthene, mg/l	0.00074J	0.17
Dibenzofuran, mg/l	0.00073J	0.0080J
Fluorene, mg/l	ND	0.036
Hexachlorobenzene, mg/l	ND	ND
Pentachlorophenol, mg/l	ND	ND
Phenanthrene, mg/l	0.0024J	0.024
Anthracene, mg/l	ND	0.0022J
Di-n-butylphthalate, mg/l	ND	ND
Fluoranthene, mg/l	0.00050J	0.0015J
Pyrene, mg/l	ND	0.00079J
Benzo(a)anthracene, mg/l	ND	0.00032J

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-7	MW-24A (#27565)	02-15-01/10:45
10927-8	MW-19 (#17566)	02-15-01/11:20

PARAMETER	10927-7	10927-8
bis(2-Ethylhexyl)phthalate, mg/l	ND	ND
Chrysene, mg/l	ND	ND
Benzo(b)fluoranthene, mg/l	ND	ND
Benzo(k)fluoranthene, mg/l	ND	ND
Benzo(a)pyrene, mg/l	ND	ND
Indeno(1,2,3-cd)pyrene, mg/l	ND	ND
Dibenzo(a,h)anthracene, mg/l	ND	ND
Benzo(g,h,i)perylene, mg/l	ND	ND
Carbazole, mg/l	ND	0.0016J
Tetrachlorophenols, mg/l	ND	ND
Dilution factor	1	1
Chromium (6010), mg/l	ND	0.0051B
Copper (6010), mg/l	0.0019B	0.0031B
Arsenic (6010), mg/l	ND	0.0034B

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-7	MW-24A (#27565)	02-15-01/10:45
10927-8	MW-19 (#17566)	02-15-01/11:20

PARAMETER	10927-7	10927-8
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/l	ND	ND
Acetone, mg/l	0.016J	ND
Chloroform, mg/l	ND	ND
2-Butanone (MEK), mg/l	ND	ND
Bromodichloromethane, mg/l	ND	ND
1,1,2,2-Tetrachloroethane, mg/l	ND	ND
1,2-Dichloropropane, mg/l	ND	ND
1,1,2-Trichloroethane, mg/l	ND	ND
Benzene, mg/l	ND	ND
Toluene, mg/l	ND	ND
Ethylbenzene, mg/l	ND	0.0019J
Xylenes, Total, mg/l	ND	0.00092J
Field Information		
Date Collected	02.15.01	02.15.01
pH (Taken in Field)	5.75	6.00
Specific Conductance (Taken in Field)	280	678
Temperature when sampled, Degrees C	18.6	15.8

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-9	MW-19A (#17567)	02-15-01/11:30
10927-10	MW-15 (#19568)	02-15-01/12:25

PARAMETER	10927-9	10927-10
TCL Semivolatiles (8270)		
Phenol, mg/l	ND	ND
2-Chlorophenol, mg/l	ND	ND
2-Methylphenol (o-Cresol), mg/l	ND	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	ND	ND
2,4-Dimethylphenol, mg/l	ND	0.021J
Naphthalene, mg/l	ND	0.88
2-Methylnaphthalene, mg/l	ND	0.20
2-Chloronaphthalene, mg/l	ND	ND
Acenaphthylene, mg/l	ND	ND
Acenaphthene, mg/l	0.0013J	0.15
Dibenzofuran, mg/l	ND	0.073
Fluorene, mg/l	ND	0.057
Hexachlorobenzene, mg/l	ND	ND
Pentachlorophenol, mg/l	ND	ND
Phenanthrene, mg/l	0.00080J	0.028J
Anthracene, mg/l	ND	0.0026J
Di-n-butylphthalate, mg/l	ND	ND
Fluoranthene, mg/l	ND	ND
Pyrene, mg/l	ND	ND
Benzo(a)anthracene, mg/l	ND	ND

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-9	MW-19A (#17567)	02-15-01/11:30
10927-10	MW-15 (#19568)	02-15-01/12:25

PARAMETER	10927-9	10927-10
bis(2-Ethylhexyl)phthalate, mg/l	ND	ND
Chrysene, mg/l	ND	0.0052J
Benzo(b)fluoranthene, mg/l	ND	ND
Benzo(k)fluoranthene, mg/l	ND	ND
Benzo(a)pyrene, mg/l	ND	ND
Indeno(1,2,3-cd)pyrene, mg/l	ND	ND
Dibenzo(a,h)anthracene, mg/l	ND	ND
Benzo(g,h,i)perylene, mg/l	ND	ND
Carbazole, mg/l	ND	0.043J
Tetrachlorophenols, mg/l	ND	ND
Dilution factor	1	5
Chromium (6010), mg/l	ND	0.0067B
Copper (6010), mg/l	0.0017B	0.0098B
Arsenic (6010), mg/l	ND	0.33

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-9	MW-19A (#17567)	02-15-01/11:30
10927-10	MW-15 (#19568)	02-15-01/12:25

PARAMETER	10927-9	10927-10
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/l	ND	ND
Acetone, mg/l	ND	ND
Chloroform, mg/l	ND	ND
2-Butanone (MEK), mg/l	ND	ND
Bromodichloromethane, mg/l	ND	ND
1,1,2,2-Tetrachloroethane, mg/l	ND	ND
1,2-Dichloropropane, mg/l	ND	ND
1,1,2-Trichloroethane, mg/l	ND	ND
Benzene, mg/l	0.00040J	0.0045J
Toluene, mg/l	ND	0.0029J
Ethylbenzene, mg/l	ND	0.014
Xylenes, Total, mg/l	ND	0.019
Field Information		
Date Collected	02.15.01	02.15.01
pH (Taken in Field)	5.65	6.08
Specific Conductance (Taken in Field)	240	318
Temperature when sampled, Degrees C	20	16

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-11	MW-12 (#17569)	02-15-01/12:45
10927-12	MW-11A (#17570)	02-15-01/12:55

PARAMETER	10927-11	10927-12
TCL Semivolatiles (8270)		
Phenol, mg/l	0.048	ND
2-Chlorophenol, mg/l	0.0012J	ND
2-Methylphenol (o-Cresol), mg/l	0.070	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	0.12	ND
2,4-Dimethylphenol, mg/l	0.15	ND
Naphthalene, mg/l	0.27	0.036
2-Methylnaphthalene, mg/l	0.15	0.040
2-Chloronaphthalene, mg/l	ND	ND
Acenaphthylene, mg/l	ND	ND
Acenaphthene, mg/l	0.16	0.039
Dibenzofuran, mg/l	0.11	0.020
Fluorene, mg/l	0.12	0.020
Hexachlorobenzene, mg/l	ND	ND
Pentachlorophenol, mg/l	0.016J	ND
Phenanthrene, mg/l	0.15	0.014
Anthracene, mg/l	0.012	0.0022J
Di-n-butylphthalate, mg/l	ND	ND
Fluoranthene, mg/l	0.031	0.0021J
Pyrene, mg/l	0.016	0.0010J
Benzo(a)anthracene, mg/l	0.00035J	0.00083J

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-11	MW-12 (#17569)	02-15-01/12:45
10927-12	MW-11A (#17570)	02-15-01/12:55

PARAMETER	10927-11	10927-12
bis(2-Ethylhexyl)phthalate, mg/l	ND	ND
Chrysene, mg/l	0.0019J	0.00097J
Benzo(b)fluoranthene, mg/l	0.00069J	ND
Benzo(k)fluoranthene, mg/l	0.00079J	ND
Benzo(a)pyrene, mg/l	ND	ND
Indeno(1,2,3-cd)pyrene, mg/l	ND	ND
Dibenzo(a,h)anthracene, mg/l	ND	ND
Benzo(g,h,i)perylene, mg/l	ND	ND
Carbazole, mg/l	0.038	0.00095J
Tetrachlorophenols, mg/l	0.014	ND
Dilution factor	1	1
Chromium (6010), mg/l	ND	ND
Copper (6010), mg/l	0.0026B	0.0030B
Arsenic (6010), mg/l	0.0088B	0.0036B

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-11	MW-12 (#17569)	02-15-01/12:45
10927-12	MW-11A (#17570)	02-15-01/12:55

PARAMETER	10927-11	10927-12
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/l	ND	ND
Acetone, mg/l	ND	ND
Chloroform, mg/l	ND	ND
2-Butanone (MEK), mg/l	ND	ND
Bromodichloromethane, mg/l	ND	ND
1,1,2,2-Tetrachloroethane, mg/l	ND	ND
1,2-Dichloropropane, mg/l	ND	ND
1,1,2-Trichloroethane, mg/l	ND	ND
Benzene, mg/l	0.0026J	ND
Toluene, mg/l	0.0022J	ND
Ethylbenzene, mg/l	0.00089J	ND
Xylenes, Total, mg/l	ND	ND
Field Information		
Date Collected	02.15.01	02.15.01
pH (Taken in Field)	5.7	6.13
Specific Conductance (Taken in Field)	140	279
Temperature when sampled, Degrees C	14.0	20

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LOG NO: S1-10927
Received: 16 FEB 01
Reported: 02 MAR 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON/SWP
Sampled By: Client
Code: 14191032

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-13	MW-14A (#17571)	02-15-01/14:00
10927-14	MW-36-DUP	02-15-01/09:40

PARAMETER	10927-13	10927-14
TCL Semivolatiles (8270)		
Phenol, mg/l	ND	ND
2-Chlorophenol, mg/l	ND	ND
2-Methylphenol (o-Cresol), mg/l	ND	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	ND	ND
2,4-Dimethylphenol, mg/l	ND	ND
Naphthalene, mg/l	0.057	4.4
2-Methylnaphthalene, mg/l	0.024	0.97
2-Chloronaphthalene, mg/l	ND	ND
Acenaphthylene, mg/l	ND	ND
Acenaphthene, mg/l	0.027	0.54
Dibenzofuran, mg/l	0.017	0.37
Fluorene, mg/l	0.015	0.30
Hexachlorobenzene, mg/l	ND	ND
Pentachlorophenol, mg/l	ND	ND
Phenanthrene, mg/l	0.014	0.28
Anthracene, mg/l	0.0012J	ND
Di-n-butylphthalate, mg/l	ND	ND
Fluoranthene, mg/l	0.0014J	0.019J
Pyrene, mg/l	0.00076J	ND
Benzo(a)anthracene, mg/l	ND	ND

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-13	MW-14A (#17571)	02-15-01/14:00
10927-14	MW-36-DUP	02-15-01/09:40

PARAMETER	10927-13	10927-14
bis(2-Ethylhexyl)phthalate, mg/l	ND	ND
Chrysene, mg/l	ND	ND
Benzo(b)fluoranthene, mg/l	ND	ND
Benzo(k)fluoranthene, mg/l	ND	ND
Benzo(a)pyrene, mg/l	ND	ND
Indeno(1,2,3-cd)pyrene, mg/l	ND	ND
Dibenzo(a,h)anthracene, mg/l	ND	ND
Benzo(g,h,i)perylene, mg/l	ND	ND
Carbazole, mg/l	0.012	0.20J
Tetrachlorophenols, mg/l	ND	ND
Dilution factor	1	25
Chromium (6010), mg/l	ND	ND
Copper (6010), mg/l	0.0025B	0.0055B
Arsenic (6010), mg/l	ND	ND

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Sampled By: Client
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-13	MW-14A (#17571)	02-15-01/14:00
10927-14	MW-36-DUP	02-15-01/09:40

PARAMETER	10927-13	10927-14
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/l	ND	ND
Acetone, mg/l	ND	ND
Chloroform, mg/l	ND	ND
2-Butanone (MEK), mg/l	ND	ND
Bromodichloromethane, mg/l	ND	ND
1,1,2,2-Tetrachloroethane, mg/l	ND	ND
1,2-Dichloropropane, mg/l	ND	ND
1,1,2-Trichloroethane, mg/l	ND	ND
Benzene, mg/l	ND	ND
Toluene, mg/l	ND	ND
Ethylbenzene, mg/l	ND	ND
Xylenes, Total, mg/l	ND	ND
Field Information		
Date Collected	02.15.01	02.15.01
pH (Taken in Field)	5.93	7.59
Specific Conductance (Taken in Field)	208	235
Temperature when sampled, Degrees C	20	18

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Sampled By: Client
Code: 14191032

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-15	Equip21501	02-15-01/13:50

PARAMETER	10927-15
TCL Semivolatiles (8270)	
Phenol, mg/l	ND
2-Chlorophenol, mg/l	ND
2-Methylphenol (o-Cresol), mg/l	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	ND
2,4-Dimethylphenol, mg/l	ND
Naphthalene, mg/l	ND
2-Methylnaphthalene, mg/l	ND
2-Chloronaphthalene, mg/l	ND
Acenaphthylene, mg/l	ND
Acenaphthene, mg/l	ND
Dibenzofuran, mg/l	ND
Fluorene, mg/l	ND
Hexachlorobenzene, mg/l	ND
Pentachlorophenol, mg/l	ND
Phenanthrene, mg/l	ND
Anthracene, mg/l	ND
Di-n-butylphthalate, mg/l	ND
Fluoranthene, mg/l	ND
Pyrene, mg/l	ND
Benzo(a)anthracene, mg/l	ND
bis(2-Ethylhexyl)phthalate, mg/l	ND

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Sampled By: Client
Code: 14191032

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-15	Equip21501	02-15-01/13:50

PARAMETER	10927-15
Chrysene, mg/l	ND
Benzo(b)fluoranthene, mg/l	ND
Benzo(k)fluoranthene, mg/l	ND
Benzo(a)pyrene, mg/l	ND
Indeno(1,2,3-cd)pyrene, mg/l	ND
Dibenzo(a,h)anthracene, mg/l	ND
Benzo(g,h,i)perylene, mg/l	ND
Carbazole, mg/l	0.0011J
Tetrachlorophenols, mg/l	ND
Dilution factor	1
Chromium (6010), mg/l	ND
Copper (6010), mg/l	0.00098B
Arsenic (6010), mg/l	0.0052B

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Sampled By: Client
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-15	Equip21501	02-15-01/13:50

PARAMETER	10927-15
Volatiles by GC/MS (8260)	
Methylene chloride (Dichloromethane), mg/l	ND
Acetone, mg/l	ND
Chloroform, mg/l	ND
2-Butanone (MEK), mg/l	ND
Bromodichloromethane, mg/l	ND
1,1,2,2-Tetrachloroethane, mg/l	ND
1,2-Dichloropropane, mg/l	ND
1,1,2-Trichloroethane, mg/l	ND
Benzene, mg/l	ND
Toluene, mg/l	ND
Ethylbenzene, mg/l	ND
Xylenes, Total, mg/l	ND
Field Information	
Date Collected	---
pH (Taken in Field)	---
Specific Conductance (Taken in Field)	---
Temperature when sampled, Degrees C	---

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Code: 14191032

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-16	Trip Blank	02-15-01

PARAMETER	10927-16
Volatiles by GC/MS (8260)	
Methylene chloride (Dichloromethane), mg/l	0.0011J
Acetone, mg/l	ND
Chloroform, mg/l	ND
2-Butanone (MEK), mg/l	ND
Bromodichloromethane, mg/l	ND
1,1,2,2-Tetrachloroethane, mg/l	ND
1,2-Dichloropropane, mg/l	ND
1,1,2-Trichloroethane, mg/l	ND
Benzene, mg/l	ND
Toluene, mg/l	ND
Ethylbenzene, mg/l	ND
Xylenes, Total, mg/l	ND

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-17	Method Blank	
10927-18	Practical Quantitation Limits	

PARAMETER	10927-17	10927-18
TCL Semivolatiles (8270)		
Phenol, mg/l	ND	0.010
2-Chlorophenol, mg/l	ND	0.010
2-Methylphenol (o-Cresol), mg/l	ND	0.010
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	ND	0.010
2,4-Dimethylphenol, mg/l	ND	0.010
Naphthalene, mg/l	ND	0.010
2-Methylnaphthalene, mg/l	ND	0.010
2-Chloronaphthalene, mg/l	ND	0.010
Acenaphthylene, mg/l	ND	0.010
Acenaphthene, mg/l	ND	0.010
Dibenzofuran, mg/l	ND	0.010
Fluorene, mg/l	ND	0.010
Hexachlorobenzene, mg/l	ND	0.010
Pentachlorophenol, mg/l	ND	0.050
Phenanthrene, mg/l	ND	0.010
Anthracene, mg/l	ND	0.010
Di-n-butylphthalate, mg/l	ND	0.010
Fluoranthene, mg/l	ND	0.010
Pyrene, mg/l	ND	0.010
Benzo(a)anthracene, mg/l	ND	0.010

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-17	Method Blank	
10927-18	Practical Quantitation Limits	

PARAMETER	10927-17	10927-18
bis(2-Ethylhexyl)phthalate, mg/l	ND	0.010
Chrysene, mg/l	ND	0.010
Benzo(b)fluoranthene, mg/l	ND	0.010
Benzo(k)fluoranthene, mg/l	ND	0.010
Benzo(a)pyrene, mg/l	ND	0.010
Indeno(1,2,3-cd)pyrene, mg/l	ND	0.010
Dibenzo(a,h)anthracene, mg/l	ND	0.010
Benzo(g,h,i)perylene, mg/l	ND	0.010
Carbazole, mg/l	ND	0.010
Tetrachlorophenols, mg/l	ND	0.010
Dilution factor	1	1
Chromium (6010), mg/l	ND	0.010
Copper (6010), mg/l	0.0030B	0.020
Arsenic (6010), mg/l	0.0042B	0.010

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-17	Method Blank	
10927-18	Practical Quantitation Limits	

PARAMETER	10927-17	10927-18
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/l	ND	0.0050
Acetone, mg/l	ND	0.050
Chloroform, mg/l	ND	0.0050
2-Butanone (MEK), mg/l	ND	0.025
Bromodichloromethane, mg/l	ND	0.0050
1,1,2,2-Tetrachloroethane, mg/l	ND	0.0050
1,2-Dichloropropane, mg/l	ND	0.0050
1,1,2-Trichloroethane, mg/l	ND	0.0050
Benzene, mg/l	ND	0.0050
Toluene, mg/l	ND	0.0050
Ethylbenzene, mg/l	ND	0.0050
Xylenes, Total, mg/l	ND	0.010

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-19	Method Detection Limit (MDL)	
10927-20	Accuracy (mean % Rec)	

PARAMETER	10927-19	10927-20
TCL Semivolatiles (8270)		
Phenol, mg/l	0.00028	78 %
2-Chlorophenol, mg/l	0.00024	74 %
2-Methylphenol (o-Cresol), mg/l	0.00029	74 %
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/l	0.00071	78 %
2,4-Dimethylphenol, mg/l	0.00039	---
Naphthalene, mg/l	0.00036	64 %
2-Methylnaphthalene, mg/l	0.00033	---
2-Chloronaphthalene, mg/l	0.00039	---
Acenaphthylene, mg/l	0.00033	83 %
Acenaphthene, mg/l	0.00025	81 %
Dibenzofuran, mg/l	0.00029	---
Fluorene, mg/l	0.00038	89 %
Hexachlorobenzene, mg/l	0.00019	---
Pentachlorophenol, mg/l	0.0040	88 %
Phenanthrene, mg/l	0.00030	90 %
Anthracene, mg/l	0.00033	94 %
Di-n-butylphthalate, mg/l	0.00026	---
Fluoranthene, mg/l	0.00033	92 %
Pyrene, mg/l	0.00053	86 %
Benzo(a)anthracene, mg/l	0.00030	89 %

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-19	Method Detection Limit (MDL)	
10927-20	Accuracy (mean % Rec)	

PARAMETER	10927-19	10927-20
bis(2-Ethylhexyl)phthalate, mg/l	0.00048	---
Chrysene, mg/l	0.00044	89 %
Benzo(b)fluoranthene, mg/l	0.00028	84 %
Benzo(k)fluoranthene, mg/l	0.00072	90 %
Benzo(a)pyrene, mg/l	0.00041	86 %
Indeno(1,2,3-cd)pyrene, mg/l	0.00056	60 %
Dibenzo(a,h)anthracene, mg/l	0.00080	71 %
Benzo(g,h,i)perylene, mg/l	0.00068	---
Carbazole, mg/l	0.00054	89 %
Tetrachlorophenols, mg/l	0.00061	92 %
Chromium (6010), mg/l	0.0017	106 %
Copper (6010), mg/l	0.00090	106 %
Arsenic (6010), mg/l	0.0032	100 %

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-19	Method Detection Limit (MDL)	
10927-20	Accuracy (mean % Rec)	

PARAMETER	10927-19	10927-20
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane), mg/l	0.00031	---
Acetone, mg/l	0.0099	---
Chloroform, mg/l	0.00090	---
2-Butanone (MEK), mg/l	0.011	---
Bromodichloromethane, mg/l	0.00035	---
1,1,2,2-Tetrachloroethane, mg/l	0.00075	---
1,2-Dichloropropane, mg/l	0.00052	---
1,1,2-Trichloroethane, mg/l	0.00047	---
Benzene, mg/l	0.00027	98 %
Toluene, mg/l	0.00051	93 %
Ethylbenzene, mg/l	0.00083	---
Xylenes, Total, mg/l	0.0019	---

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-21	Precision (%RPD)	
10927-22	Analyst Initials	

PARAMETER	10927-21	10927-22
TCL Semivolatiles (8270)		
Phenol	0 %	Kim Humphreys
2-Chlorophenol	0 %	Kim Humphreys
2-Methylphenol (o-Cresol)	2 %	Kim Humphreys
3-Methylphenol/4-Methylphenol (m&p-Cresol)	0 %	Kim Humphreys
Naphthalene	0 %	Kim Humphreys
Acenaphthylene	0 %	Kim Humphreys
Acenaphthene	0 %	Kim Humphreys
Fluorene	0 %	Kim Humphreys
Pentachlorophenol	2 %	Kim Humphreys
Phenanthrene	1 %	Kim Humphreys
Anthracene	1 %	Kim Humphreys
Fluoranthene	1 %	Kim Humphreys
Pyrene	1 %	Kim Humphreys
Benzo(a)anthracene	5 %	Kim Humphreys
Chrysene	2 %	Kim Humphreys
Benzo(b)fluoranthene	13 %	Kim Humphreys
Benzo(k)fluoranthene	6 %	Kim Humphreys
Benzo(a)pyrene	2 %	Kim Humphreys
Indeno(1,2,3-cd)pyrene	32 %	Kim Humphreys
Dibenzo(a,h)anthracene	3 %	Kim Humphreys

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-21	Precision (%RPD)	
10927-22	Analyst Initials	

PARAMETER	10927-21	10927-22
Carbazole	0 %	Kim Humphreys
Tetrachlorophenols	1 %	Kim Humphreys
2,4-Dimethylphenol	---	Kim Humphreys
2-Methylnaphthalene	---	Kim Humphreys
2-Chloronaphthalene	---	Kim Humphreys
Dibenzofuran	---	Kim Humphreys
Hexachlorobenzene	---	Kim Humphreys
Di-n-butylphthalate	---	Kim Humphreys
bis(2-Ethylhexyl)phthalate	---	Kim Humphreys
Benzo(g,h,i)perylene	---	Kim Humphreys
Chromium (6010)	0.99 %	Susan Norwood
Copper (6010)	0.89 %	Susan Norwood
Arsenic (6010)	0.96 %	Susan Norwood

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Sampled By: Client
Code: 14191032

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-21	Precision (%RPD)	
10927-22	Analyst Initials	

PARAMETER	10927-21	10927-22
Volatiles by GC/MS (8260)		
Benzene	0 %	Paul Grimm
Toluene	2 %	Paul Grimm
Methylene chloride (Dichloromethane)	---	Paul Grimm
Acetone	---	Paul Grimm
Chloroform	---	Paul Grimm
2-Butanone (MEK)	---	Paul Grimm
Bromodichloromethane	---	Paul Grimm
1,1,2,2-Tetrachloroethane	---	Paul Grimm
1,2-Dichloropropane	---	Paul Grimm
1,1,2-Trichloroethane	---	Paul Grimm
Ethylbenzene	---	Paul Grimm
Xylenes, Total	---	Paul Grimm

SEVERN TRENT SERVICES

5102 LaRoche Avenue • Savannah, GA 31404 • Tel: 912 354 7858 • Fax: 912 352 0165 • www.stl-inc.com

STL Savannah

LOG NO: S1-10927
Received: 16 FEB 01
Reported: 02 MAR 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON/SWP
Sampled By: Client
Code: 14191032

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-23	EPA Method Numbers	
10927-24	Dates Extracted	

PARAMETER	10927-23	10927-24
TCL Semivolatiles (8270)		
Phenol	8270C	02.20.01
2-Chlorophenol	8270C	02.20.01
2-Methylphenol (o-Cresol)	8270C	02.20.01
3-Methylphenol/4-Methylphenol (m&p-Cresol)	8270C	02.20.01
2,4-Dimethylphenol	8270C	02.20.01
Naphthalene	8270C	02.20.01
2-Methylnaphthalene	8270C	02.20.01
2-Chloronaphthalene	8270C	02.20.01
Acenaphthylene	8270C	02.20.01
Acenaphthene	8270C	02.20.01
Dibenzofuran	8270C	02.20.01
Fluorene	8270C	02.20.01
Hexachlorobenzene	8270C	02.20.01
Pentachlorophenol	8270C	02.20.01
Phenanthrene	8270C	02.20.01
Anthracene	8270C	02.20.01
Di-n-butylphthalate	8270C	02.20.01
Fluoranthene	8270C	02.20.01
Pyrene	8270C	02.20.01
Benzo(a)anthracene	8270C	02.20.01

SEVERN TRENT SERVICES

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CC: Greg Kuntz-Schnabel

Project: WILMINGTON/SWP
Sampled By: Client
Code: 14191032

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-23	EPA Method Numbers	
10927-24	Dates Extracted	-

PARAMETER	10927-23	10927-24
bis(2-Ethylhexyl)phthalate	8270C	02.20.01
Chrysene	8270C	02.20.01
Benzo(b)fluoranthene	8270C	02.20.01
Benzo(k)fluoranthene	8270C	02.20.01
Benzo(a)pyrene	8270C	02.20.01
Indeno(1,2,3-cd)pyrene	8270C	02.20.01
Dibenzo(a,h)anthracene	8270C	02.20.01
Benzo(g,h,i)perylene	8270C	02.20.01
Carbazole	8270C	02.20.01
Tetrachlorophenols	8270C	02.20.01
Chromium (6010)	6010	---
Copper (6010)	6010	---
Arsenic (6010)	6010	---

SEVERN TRENT SERVICES

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STL Savannah

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CC: Greg Kuntz-Schnabel

Project: WILMINGTON/SWP
Sampled By: Client
Code: 14191032

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-23	EPA Method Numbers	
10927-24	Dates Extracted	

PARAMETER	10927-23	10927-24
Volatiles by GC/MS (8260)		
Methylene chloride (Dichloromethane)	8260	---
Acetone	8260	---
Chloroform	8260	---
2-Butanone (MEK)	8260	---
Bromodichloromethane	8260	---
1,1,2,2-Tetrachloroethane	8260	---
1,2-Dichloropropane	8260	---
1,1,2-Trichloroethane	8260	---
Benzene	8260	---
Toluene	8260	---
Ethylbenzene	8260	---
Xylenes, Total	8260	---

SEVERN TRENT SERVICES

5102 LaRoche Avenue • Savannah, GA 31404 • Tel: 912 354 7858 • Fax: 912 352 0165 • www.stl-inc.com

STL Savannah

LOG NO: S1-10927
Received: 16 FEB 01
Reported: 02 MAR 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON/SWP
Sampled By: Client
Code: 14191032

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-25	Dates Analyzed	

PARAMETER	10927-25
TCL Semivolatiles (8270)	
Phenol	02.25.01
2-Chlorophenol	02.25.01
2-Methylphenol (o-Cresol)	02.25.01
3-Methylphenol/4-Methylphenol (m&p-Cresol)	02.25.01
2,4-Dimethylphenol	02.25.01
Naphthalene	02.25.01
2-Methylnaphthalene	02.25.01
2-Chloronaphthalene	02.25.01
Acenaphthylene	02.25.01
Acenaphthene	02.25.01
Dibenzofuran	02.25.01
Fluorene	02.25.01
Hexachlorobenzene	02.25.01
Pentachlorophenol	02.25.01
Phenanthrene	02.25.01
Anthracene	02.25.01
Di-n-butylphthalate	02.25.01
Fluoranthene	02.25.01
Pyrene	02.25.01
Benzo(a)anthracene	02.25.01
bis(2-Ethylhexyl)phthalate	02.25.01

SEVERN TRENT SERVICES

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STL Savannah

LOG NO: S1-10927
Received: 16 FEB 01
Reported: 02 MAR 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON/SWP
Sampled By: Client
Code: 14191032

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-25	Dates Analyzed	

PARAMETER	10927-25
Chrysene	02.25.01
Benzo(b)fluoranthene	02.25.01
Benzo(k)fluoranthene	02.25.01
Benzo(a)pyrene	02.25.01
Indeno(1,2,3-cd)pyrene	02.25.01
Dibenzo(a,h)anthracene	02.25.01
Benzo(g,h,i)perylene	02.25.01
Carbazole	02.25.01
Tetrachlorophenols	02.25.01
Chromium (6010)	02.20.01
Copper (6010)	02.20.01
Arsenic (6010)	02.20.01

SEVERN TRENT SERVICES

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STL Savannah

LOG NO: S1-10927
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Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON/SWP
Sampled By: Client
Code: 14191032

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
10927-25	Dates Analyzed	

PARAMETER	10927-25
Volatiles by GC/MS (8260)	
Methylene chloride (Dichloromethane)	02.19.01
Acetone	02.19.01
Chloroform	02.19.01
2-Butanone (MEK)	02.19.01
Bromodichloromethane	02.19.01
1,1,2,2-Tetrachloroethane	02.19.01
1,2-Dichloropropane	02.19.01
1,1,2-Trichloroethane	02.19.01
Benzene	02.19.01
Toluene	02.19.01
Ethylbenzene	02.19.01
Xylenes, Total	02.19.01

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.
Code of Federal Regulations, Title 40, Part 136; Washington DC, July 1, 1997.
Methods: EPA SW-846 ND = Not Detected

Gloria D. Fulwood

Gloria D. Fulwood, Project Manager

Final Page Of Report

STANDARDIZED GROUNDWATER PURGING AND SAMPLING FIELD DATA SHEET

WELL ID	WATER LEVEL DATE / TIME	WATER LEVEL DEPTH (TOC)	WELL DEPTH (TOC)	FLOATER THICKNESS (FT)	SINKER THICKNESS (FT)	ODOR*	CALIBRATION pH	CALIBRATION COND	PURGING DATE	PURGING TIME	PURGE METHOD	CALC PURGE VOL.	VOL. PURGED (GAL)	TEMP (C)	COND (UMHOS)	pH	TURB**	SAMPLING DATE	SAMPLING TIME	SAMP. INT.	DO	ORP	REMARKS
MW-13	2/14 13:47	4.55	13.94			slight	4/7	1410	2/14	14:00	Peri	1.53	2.0	19	1036	6.22	53.9	2/14	14:40	GBK	1.87	059	
													4.0	14	1090	6.27	45.5				1.36	019	
													6.0	14	1114	6.34	37.5				1.31	000	
MW 17	2/14 14:48	5.23	14.50			slight Diesel	↓	↓	2/14	14:50	Low Flow Peri	1.51	2.0	12.8	1030	6.5	22	2/14	15:40	GBK	2.05	063	
													2.0	12.8	1010	6.3	9.55				1.75	024	
													2.0	12.8	1020	6.3	8.98				1.30	019	
MW 29	2/14 7:19	3.64	9.18				4/7	1410	2/15	7:45	Peri	0.98	1.0	13	1815	5.48	65.1	2/15	8:10	GBK	1.98	124	
													1.0	13	1792	5.55	16.9				1.60	088	
													1.0	13	1797	5.54	29.1				1.26	086	
MW 29A	2/14 7:21	3.57	40.35			slight			2/15	7:45	Sub	6.00	6.0	18	287	6.64	10.11	2/15	8:25	GBK	1.30	065	
													6.0	18	272	6.65	7.11				1.01	039	
													12.0	18	276	6.62	6.97				1.04	037	
MW 34	2/14 7:25	7.45	16.89						2/15	8:40	Low Flow Peri	1.49	1.5	16.8	360	5.9	20.6	2/15	9:30	GBK	1.70	060	
													1.5	16.8	370	5.9	13.8				1.20	028	
													1.5	16.8	370	5.8	10.9				1.09	048	
MW 35	2/14 7:27	5.87	38.03						2/15	9:05	Sub	5.24	5.5	19	233	6.75	8.6	2/15	9:50	GBK	1.68	012	
													5.5	19	230	6.70	5.6				.98	000	
													11.0	19	229	6.68	5.55				.91	004	
MW 36	2/14 7:29	6.12	59.21						2/15	8:40	Sub	8.65	8.25	19	234	7.52	7.71	2/15	9:40	GBK	2.0	073	
													9	19	234	7.57	6.62				0.80	049	
													18	18	235	7.59	6.36				0.81	026	
MW 24R	2/13 7:35	13 8.74	18.32			slight			2/15	10:10	Peri	1.89	2.0	14.7	966	5.95	18.7	2/15	10:35	GBK	1.68	133	
													2.0	14.6	905	5.97	9.8				0.98	067	
													2.0	14.7	898	5.97	8.5				0.76	048	
MW 24A	2/13 7:35	13 3.93	35.92						2/15	10:15	Sub	5.21	6.0	18.6	266	5.74	11.1	2/15	10:45	GBK	1.09	097	
													6.0	18.6	286	5.80	7.5				0.88	057	
													12.0	18.6	280	5.75	6.75				0.78	052	

Note descrepancies from below comments in the remarks section for each well:
- Well Locked
- Bailer Present
- Bottles Labeled
- Samples Iced
- Reference Point Inspected
- Well Casing Inspected
- Well Pad Inspected

Check When Complete:
- ____ Copy of All Notes Sent with Samples To Lab
- ____ Log Numbers Obtained For Samples
- ____ Samples Shipped FedEx Priority Overnight Daily
- ____ Confirmed Samples Arrived At Lab
- ____ All Data Recorded With An Indelible Waterproof Pen
- ____ Custody Form Completed
- ____ Cooler Sealed
- ____ All Purge Water Disposed Of At Designated Location
- ____ All Sampling Derived Waste Disposed as Potentially Hazardous Waste (i.e. gloves, plastic, twine, etc.)

SITE: SWP-Wilmington
WEATHER: Sunny - 65°
COLLECTOR'S SIGN.: [signature]
DATE/TIME: 2/15/01 12:00

*Very slight (VS), Slight (S), Moderate (M), Strong (ST), Very Strong (VST)
**Clear (C), Slight Turbid (ST), Turbid (T), Very Turbid (VT)

STANDARDIZED GROUNDWATER PURGING AND SAMPLING FIELD DATA SHEET

WELL ID	WATER LEVEL DATE TIME	WATER LEVEL DEPTH (TOC)	WELL DEPTH (TOC)	FLOATER THICKNESS (FT)	SINKER THICKNESS (FT)	ODOR*	CALIBRATION pH	CALIBRATION COND	PURGING DATE	PURGING TIME	PURGE METHOD	CALC. PURGE VOL.	VOL. PURGED (GAL)	TEMP (C)	COND (UMHOS)	pH	TURB**	SAMPLING DATE	SAMPLING TIME	SAMP. INT.	REMARKS (Do ORP)
MW 19	2/15 7:28	2.93	15.06			slight	4/7	1410	2/15	11:00	Peri	1.98	2.0 2.0 2.0	15.4 15.4 15.8	671 684 678	6.01 6.00 6.00	12.6 17.9 6.77	2/15	11:20	GBK	1.15 075 0.77 056 1.17 045
MW 19A	2/15 7:30	3.31	32.26						2/15	11:00	Sub	4.72	5.0 5.0 5.0	20 20 20	237 242 240	5.78 5.68 5.65	13.3 7.14 6.82	2/15	11:30	GBK	1.14 082 0.89 063 0.96 053
MW 15	2/15 6:51	4.35	13.80			slight			2/15	11:50	Peri	1.54	2.0 2.0 4.0	16 16 16	257 296 318	6.08 6.05 6.08	17.8 9.02 7.84	2/15	12:25	GBK	1.71 112 1.71 084 1.22 063
MW 12	2/15 6:56	5.41	13.85			moderate			2/15	12:05	Low Flow Peri	1.38	2.0 2.0 2.0	13.9 14.0 14.0	130 130 140	5.7 5.8 5.7	14.6 13.2 11.5	2/15	12:45	GBK	2.40 054 0.98 019 0.82 057
MW 11A	2/15 6:59	4.12	36.02			slight			2/15	12:35	Sub	5.20	6.0 6.0 6.0	20 20 20	268 277 279	6.17 6.16 6.13	8.1 6.79 6.99	2/15	12:55	GBK	0.95 030 1.30 020 1.36 019
MW 14A	2/15 7:04	3.10	33.05			slight			2/15	13:25	Sub	4.88	5.0 5.0 5.0	20 20 20	217 208 208	6.06 5.96 5.97	14.7 7.41 7.02	2/15	13:20	GBK	1.44 008 1.09 004 1.03 002
MW 14	2/15 13:35	4.22	19.50			strong	↓	↓	2/15	13:45	Low Flow Peri	2.49	2.5 2.5 2.5	15.6 15.5 15.5	1050 1040 1020	6.1 6.1 6.1	8.01 10.72 12.2	2/15	14:30	GBK	0.72 055 0.46 017 0.45 011

*Note discrepancies from below comments in the remarks section for each well:
Well Locked
Water Present
Bottles Labeled
Samples Iced
Reference Point Inspected
All Casing Inspected
All Pad Inspected

Check When Complete:
____ Copy of All Notes Sent With Samples To Lab
____ Log Numbers Obtained For Samples
____ Samples Shipped FedEx Priority Overnight Daily
____ Confirmed Samples Arrived At Lab
____ All Data Recorded With An Indelible Waterproof Pen
____ Custody Form Completed
____ Cooler Sealed
____ All Purge Water Disposed Of At Designated Location
____ All Sampling Derived Waste Disposed as Potentially Hazardous Waste (i.e. gloves, plastic, twine, etc.)

SITE: SWP-Lumington
WEATHER: Sunny - 65°F
COLLECTOR'S SIGN: [illegible]
DATE/TIME: 2/15/01 17:00

*Odor: Very Slight (VS), Slight (S), Moderate (M), Strong (ST), Very Strong (VST)
**Turb: Clear (C), Slight Turbid (ST), Turbid (T), Very Turbid (VT)

SCHNABEL ENGINEERING 803-796-6240

Serial Number 012022

SEVERN TRENT SERVICES

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Severn Trent Laboratories, Inc.

- [x] 5102 LaRoche Avenue, Savannah, GA 31404 — Phone: (912) 354-7858 — Fax: (912) 352-0165
- [ ] 2846 Industrial Plaza Drive, Tallahassee, FL 32301 — Phone: (850) 878-3994 — Fax: (850) 878-9504
- [ ] 900 Lakeside Drive, Mobile, AL 36693 — Phone: (334) 666-6633 — Fax: (334) 666-6696
- [ ] 6712 Benjamin Road, Suite 100, Tampa, FL 33634 — Phone: (813) 885-7427 — Fax: (813) 885-7049

PROJECT REFERENCE: Swp Wilmington	PROJECT NO.: 979507.A6-29	PROJECT LOCATION (STATE): NC
STL (LAB) PROJECT MANAGER: C. Fellwood	P.O. NUMBER:	CONTRACT NO.:
CLIENT (SITE): Southern Wood Piedmont	CLIENT PHONE: 864-599-1670	CLIENT FAX: 864-599-1082
CLIENT NAME: Bill Arrants	CLIENT E-MAIL: williamarrants@rayonier.com	
CLIENT ADDRESS: PO Box 5949 Spartanburg, SC 29304		
COMPANY CONTRACTING THIS WORK (if applicable): Formatech Engineering - Greg Kuntz		

PAGE 1 OF 2

STANDARD REPORT DELIVERY [x] DATE DUE

EXPEDITED REPORT DELIVERY (SURCHARGE) [ ] DATE DUE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX TYPE: Liquid	SVOC (PRESERVATIVE: none)	Cr, Cu, As (PRESERVATIVE: nitric acid)	VOC (PRESERVATIVE: HCl)	REMARKS
2/16/01	8:10	MW-29 SWP Log # 17559	X	2	1	3	*Wilmington Site
	8:25	MW-29A 17560					Specific Parameter
	9:20	MW-34 17561					List
	9:30	MW-30 17562					
	9:40	MW-26 17563					
	10:35	MW-29B 17564					
	10:45	MW-29A 17565					
	11:20	MW-19 17566					
	11:30	MW-19A 17567					
	12:25	MW-15 17568					
	12:15	MW-12 17569					
	12:55	MW-11A 17570					
↓	12:00	MW-14A 17571	↓	↓	↓	↓	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			William B. Kuntz	2/16/01	1730			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
EMPTY CONTAINERS								

LABORATORY USE ONLY

RECEIVED FOR LABORATORY USE BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT? YES / NO	CUSTODY SEAL NO.	STL SAMPLE LOG NO.	LABORATORY REMARKS

CLIENTS FIELD COPY

Serial Number 002021

SEVERN TRENT SERVICES

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Severn Trent Laboratories, Inc.

- [x] 5102 LaRoche Avenue, Savannah, GA 31404 — Phone: (912) 354-7858 — Fax: (912) 352-0165
- [ ] 2846 Industrial Plaza Drive, Tallahassee, FL 32301 — Phone: (850) 878-3994 — Fax: (850) 878-9504
- [ ] 900 Lakeside Drive, Mobile, AL 36693 — Phone: (334) 666-6633 — Fax: (334) 666-6696
- [ ] 6712 Benjamin Road, Suite 100, Tampa, FL 33634 — Phone: (813) 885-7427 — Fax: (813) 885-7049

PROJECT REFERENCE: SWP-Wilmington	PROJECT NO.: 979007 A0-29	PROJECT LOCATION (STATE): NC	PAGE 2 OF 2
STL (LAB) PROJECT MANAGER: G. Falwood	P.O. NUMBER:	CONTRACT NO.:	STANDARD REPORT DELIVERY [x] DATE DUE:
CLIENT (SITE): Southern Wood Piedmont	CLIENT PHONE: 864-599-1070	CLIENT FAX: 864-599-1087	EXPEDITED REPORT DELIVERY (SURCHARGE) [ ] DATE DUE:
CLIENT NAME: Bill Arrants	CLIENT E-MAIL: william.arrants@rayonier.com		
CLIENT ADDRESS: P.O. Box 5447 Spartanburg, SC 29304			
COMPANY CONTRACTING THIS WORK (if applicable): Schnabel Engineering - Greg Kuntz			NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

MATRIX TYPE: Ground

REQUIRED ANALYSIS / PRESERVATIVE / NUMBER CONTAINERS SUBMITTED

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	Ground	SVOC (none)	Cr, Cu, As (nitric acid)	VOC (HCl)	REMARKS
8/15/01	9:40	MW-36-Dup SWP Log # - - - - -	X	2	1	3	*Wilmington Site
1	13:50	Equip021501 - - - - -	1	2	1	3	Specific
↓	—	Trip Blank - - - - -	↓			3	Continued list

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS	8/21		William B. Kuntz	8/21/01	17:30			

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE
EMPTY CONTAINERS							

LABORATORY USE ONLY

RECEIVED FOR LABORATORY USE BY (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES / NO	CUSTODY SEAL	STSS LOG NO.	LABORATORY REMARKS

G. Hunt
File ← WPA

PARADIGM ANALYTICAL LABORATORIES, INC.
2627 Northchase Parkway S.E.
Wilmington, North Carolina 28405
(910) 350-1903
Fax (910) 350-1557

RECEIVED
MAR 13 2001
SOUTHERN WOOD PIEDMONT

RECEIVED
MAR 16 2001

Monday, March 12, 2001

Ms. Sandra Watson
Southern Wood Piedmont
591 Springfield Road
Spartanburg, SC 29304

Dear Ms. Watson:

Enclosed are the final results for the samples received by Paradigm Analytical Laboratories, Inc. on February 15, 2001 under your **Project Name "SWP-Wilmigton"**. The samples were analyzed by Method **1613** following Paradigm's Standard Operating Procedures. Please see Page 2 of this report for the case narrative.

A summary data package has been provided.

No. of Samples Received:	**9 Soil**
Your Project Number:	**Not Provided**
PAL Project No.:	**G440-6**

We appreciate your business and look forward to working with you again. Please contact me if you have questions or need additional technical support.

Sincerely,

Christopher K. Cornwell

Christopher K. Cornwell
Assistant Director

PARADIGM ANALYTICAL LABORATORIES, INC.

RECEIVED
MAR 13 2001
SOUTHERN WOOD PIEDMONT

Case Narrative
Paradigm Project **G440-6**

Client Project No.:	Not Provided
Client Project Name:	SWP-Wilmington
No. of Samples Received:	9 Soils
No. of Samples Analyzed:	9
Method:	1613
No. of LMBs:	2
No. of OPRs:	2

- Samples 15195. 15196 were filtered prior to extraction.
- Data meet QA/QC requirements.

W.M. Larkins
Technical Director

March 12. 2001

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SOUTHERN WOOD PIEDMONT

Table 1: Toxic Equivalency Factors

Analyte	World Health Organization	International-89	MADEP
2,3,7,8-TCDD	1	1	1
1,2,3,7,8-PeCDD	1	0.5	0.5
1,2,3,4,7,8-HxCDD	0.1	0.1	0.1
1,2,3,6,7,8-HxCDD	0.1	0.1	0.1
1,2,3,7,8,9-HxCDD	0.1	0.1	0.1
1,2,3,4,6,7,8-HpCDD	0.01	0.01	0.1
OCDD	0.0001	0.001	0.001
2,3,7,8-TCDF	0.1	0.1	0.1
1,2,3,7,8-PeCDF	0.05	0.05	0.5
2,3,4,7,8-PeCDF	0.5	0.5	0.5
1,2,3,4,7,8-HxCDF	0.1	0.1	0.1
1,2,3,6,7,8-HxCDF	0.1	0.1	0.1
2,3,4,6,7,8-HxCDF	0.1	0.1	0.1
1,2,3,7,8,9-HxCDF	0.1	0.1	0.1
1,2,3,4,6,7,8-HpCDF	0.01	0.01	0.1
1,2,3,4,7,8,9-HpCDF	0.01	0.01	0.1
OCDF	0.0001	0.001	0.001

Table 2. List of Qualifiers

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A	Amount detected is less than the Calibration Limit
B	Analyte was detected in the LMB at a level above the RL or EDL.
E	Amount detected is over the Method Calibration Limit
DPE	Denotes the presence of possible polychlorinated diphenylethers
EDL	"Estimated Detection Limit"
EMPC	"Estimated Maximum Possible Concentration"
ppt	Parts-per-trillion (pg/g; ng/L)
Q	Indicates the presence of quantitative interferences. They generally result in an underestimation of the affected total homologue groups.
V	Recovery is lower than 40%. The data has been validated based on a favorable signal-to-noise and detection limit.
#	Outside recovery limits
*	See cover letter

Method 1613

MW-40 SWP Log#17548

Southern Wood Piedmont

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Analytical Data Summary Sheet

Analyte	Amount (ng/L)	EDL (ng/L)	EMPC (ng/L)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.0029				
1,2,3,7,8-PeCDD	ND	0.0012				
1,2,3,4,7,8-HxCDD	ND	0.0014				
1,2,3,6,7,8-HxCDD	ND	0.0014				
1,2,3,7,8,9-HxCDD	ND	0.0013				
1,2,3,4,6,7,8-HpCDD	0.0221			39:17	1.04	A
OCDD	0.201			43:12	0.88	
2,3,7,8--TCDF	ND	0.0016				
1,2,3,7,8-PeCDF	ND	0.0007				
2,3,4,7,8-PeCDF	ND	0.0008				
1,2,3,4,7,8-HxCDF	ND	0.0009				
1,2,3,6,7,8-HxCDF	ND	0.0009				
2,3,4,6,7,8-HxCDF	ND	0.0011				
1,2,3,7,8,9-HxCDF	ND	0.0012				
1,2,3,4,6,7,8-HpCDF	0.0189			38:06	1.07	A
1,2,3,4,7,8,9-HpCDF	ND	0.0016				
OCDF	0.0167			43:30	0.97	A
Total TCDDs	ND	0.0029				
Total PeCDDs	ND	0.0039				
Total HxCDDs	0.0033		0.0061			
Total HpCDDs	0.105					
Total TCDFs	ND	0.0016				
Total PeCDFs	ND	0.0008				
Total HxCDFs	ND	0.0027	0.0113			
Total HpCDFs	0.0422					
ITEF TEQ (ND=0)	0.0006		0.0006			
ITEF TEQ (ND=½)	0.0031		0.0031			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	MW-40 SWP Log#17548		

Laboratory Information

Project ID:	G440-6		
Sample ID:	15036		
Collection Date/Time:	14-Feb-01	11:55	
Receipt Date:	15-Feb-01		
Extraction Date:	21-Feb-01		
Analysis Date:	23-Feb-01		

Sample Information

Matrix:	Aqueous	
Weight / Volume:	500	mL
Solids / Lipids:	NA	
Original pH :	7	
Batch ID:	WG5287	
Filename:	a22feb01a_2-10	
Retchk:	a22feb01a-15	
Begin ConCal:	a22feb01a-15	
Initial Cal:	m1613-052699m	

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Method 1613

MW-40 SWP Log#17548

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	1	0.77	76.9	30:29	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	1	0.83	82.8	33:38	1.57	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	1	0.76	76.2	36:06	1.31	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1	0.91	91.4	36:11	1.18	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	1	0.75	75.1	39:16	1.04	
$^{13}C_{12}$-OCDD	2	1.40	70.2	43:12	0.86	
$^{13}C_{12}$-2,3,7,8-TCDF	1	0.75	75.4	29:33	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1	0.92	91.5	32:51	1.59	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1	0.83	83.0	33:26	1.55	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1	0.72	71.6	35:25	0.50	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1	0.81	81.4	35:30	0.5	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1	0.75	75.3	35:58	0.49	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1	0.90	89.5	36:42	0.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1	0.85	85.0	38:05	0.45	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1	0.90	90.3	39:53	0.46	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.4	0.33	81.5	30:30		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:46	0.8	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:58	0.49	

Client Information

Project Name: SWP-Wilmington
Sample ID: MW-40 SWP Log#17548

Laboratory Information

Project ID: G440-6
Sample ID: 15036

Collection Date/Time: 14-Feb-01 11:55
Receipt Date: 15-Feb-01
Extraction Date: 21-Feb-01
Analysis Date: 23-Feb-01

Sample Information

Matrix: Aqueous
Weight / Volume: 500 mL
Solids / Lipids: NA
Original pH : 7
Batch ID: WG5287

Filename: a22feb01a_2-10
Retchk: a22feb01a-15
Begin ConCal: a22feb01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 02Mar01

Reviewed by: [illegible]
Date: 3/2/01

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Method 1613

MW-17 SWP Log#17556

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (ng/L)	EDL (ng/L)	EMPC (ng/L)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.0025				
1,2,3,7,8-PeCDD	ND	0.0015				
1,2,3,4,7,8-HxCDD	ND	0.0016				
1,2,3,6,7,8-HxCDD	ND	0.0017				
1,2,3,7,8,9-HxCDD	ND	0.0015				
1,2,3,4,6,7,8-HpCDD	0.0678			38:49	1.08	
OCDD	1.06			42:36	0.85	
2,3,7,8--TCDF	ND	0.0024				
1,2,3,7,8-PeCDF	ND	0.0009				
2,3,4,7,8-PeCDF	ND	0.0011				
1,2,3,4,7,8-HxCDF	ND	0.0012				
1,2,3,6,7,8-HxCDF	ND	0.0012				
2,3,4,6,7,8-HxCDF	ND	0.0014				
1,2,3,7,8,9-HxCDF	ND	0.0012				
1,2,3,4,6,7,8-HpCDF	0.0309			37:40	1.09	A
1,2,3,4,7,8,9-HpCDF	ND	0.0018				
OCDF	0.0513			42:51	0.83	A
Total TCDDs	ND	0.0025				
Total PeCDDs	ND	0.0036				
Total HxCDDs	0.0130					
Total HpCDDs	0.226					
Total TCDFs	ND	0.0024				
Total PeCDFs	ND	0.0010				
Total HxCDFs	0.0142		0.0160			
Total HpCDFs	0.0701					
ITEF TEQ (ND=0)	0.0021		0.0021			
ITEF TEQ (ND=½)	0.0046		0.0046			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	MW-17 SWP Log#17556		

Laboratory Information

Project ID:	G440-6		
Sample ID:	15037		
Collection Date/Time:	14-Feb-01 15:40		
Receipt Date:	15-Feb-01		
Extraction Date:	21-Feb-01		
Analysis Date:	24-Feb-01		

Sample Information

Matrix:	Aqueous	
Weight / Volume:	503	mL
Solids / Lipids:	NA	
Original pH :	7	
Batch ID:	WG5287	
Filename:	a23feb01a-12	
Retchk:	a23feb01a-1	
Begin ConCal:	a23feb01a-1	
Initial Cal:	m1613-052699m	

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Method 1613

MW-17 SWP Log#17556

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	1	0.68	68.4	29:50	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	1	0.86	86.1	33:21	1.58	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	1	0.78	77.7	35:44	1.29	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1	0.81	80.8	35:49	1.14	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	1	0.67	67.1	38:48	1.06	
$^{13}C_{12}$-OCDD	2	1.13	56.6	42:35	0.81	
$^{13}C_{12}$-2,3,7,8-TCDF	1	0.50	49.7	28:55	0.84	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1	0.92	92.1	32:35	1.59	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1	0.69	69.3	33:10	1.56	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1	0.75	75.3	35:05	0.50	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1	0.77	77.0	35:10	0.51	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1	0.73	73.0	35:37	0.52	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1	0.99	99.2	36:19	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1	0.78	77.7	37:40	0.48	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1	0.79	79.0	39:24	0.49	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.4	0.31	76.3	29:52		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:08	0.81	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:37	0.52	

Client Information

Project Name: SWP-Wilmington
Sample ID: MW-17 SWP Log#17556

Laboratory Information

Project ID: G440-6
Sample ID: 15037

Collection Date/Time: 14-Feb-01 15:40
Receipt Date: 15-Feb-01
Extraction Date: 21-Feb-01
Analysis Date: 24-Feb-01

Sample Information

Matrix: Aqueous
Weight / Volume: 503 mL
Solids / Lipids: NA
Original pH : 7
Batch ID: WG5287

Filename: a23feb01a-12
Retchk: a23feb01a-1
Begin ConCal: a23feb01a-1

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 07Mar01

Reviewed by: [illegible]
Date: 3/2/01

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MW-17 SWP Log#17556

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Analytical Data Summary Sheet

Analyte	Amount (ng/L)	EDL (ng/L)	EMPC (ng/L)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.0023				
1,2,3,7,8-PeCDD	ND	0.0013				
1,2,3,4,7,8-HxCDD	ND	0.0015				
1,2,3,6,7,8-HxCDD	ND	0.0015				
1,2,3,7,8,9-HxCDD	ND	0.0014				
1,2,3,4,6,7,8-HpCDD	0.0056			38:49	1.08	A
OCDD	0.0329			42:37	0.80	A
2,3,7,8--TCDF	ND	0.0015				
1,2,3,7,8-PeCDF	ND	0.0009				
2,3,4,7,8-PeCDF	ND	0.0009				
1,2,3,4,7,8-HxCDF	ND	0.0009				
1,2,3,6,7,8-HxCDF	ND	0.0009				
2,3,4,6,7,8-HxCDF	ND	0.0010				
1,2,3,7,8,9-HxCDF	ND	0.0011				
1,2,3,4,6,7,8-HpCDF	0.0018			37:41	1.07	A
1,2,3,4,7,8,9-HpCDF	ND	0.0014				
OCDF	ND	0.0024				
Total TCDDs	ND	0.0023				
Total PeCDDs	ND	0.0041				
Total HxCDDs	ND	0.0048				
Total HpCDDs	0.0118					
Total TCDFs	ND	0.0015				
Total PeCDFs	ND	0.0009				
Total HxCDFs	ND	0.0022				
Total HpCDFs	0.0018					
ITEF TEQ (ND=0)	0.0001		0.0001			
ITEF TEQ (ND=½)	0.0023		0.0023			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	MW-17 SWP Log#17556	Matrix:	Aqueous
		Weight / Volume:	502 mL
Laboratory Information		Solids / Lipids:	NA
		Original pH :	7
Project ID:	G440-6	Batch ID:	WG5304
Sample ID:	15195		
		Filename:	a01mar01a-13
Collection Date/Time:	14-Feb-01 15:40	Retchk:	a01mar01a-1
Receipt Date:	15-Feb-01	Begin ConCal:	a01mar01a-1
Extraction Date:	28-Feb-01		
Analysis Date:	02-Mar-01	Initial Cal:	m1613-052699m

Sample Information

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Method 1613

MW-17 SWP Log#17556

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	1	0.75	75.1	29:51	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	1	0.73	72.7	33:21	1.53	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	1	0.78	78.2	35:45	1.13	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1	0.94	93.7	35:50	1.16	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	1	0.85	85.3	38:49	1.07	
$^{13}C_{12}$-OCDD	2	1.70	84.9	42:36	0.87	
$^{13}C_{12}$-2,3,7,8-TCDF	1	0.81	81.3	28:56	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1	0.81	80.6	32:35	1.51	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1	0.86	85.9	33:10	1.55	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1	0.79	79.4	35:05	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1	0.88	87.8	35:11	0.5	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1	0.86	86.0	35:38	0.5	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1	0.95	94.9	36:20	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1	0.90	89.6	37:41	0.48	
$^{13}C_{12}$-1,2,3,4,7,3,9-HpCDF	1	0.98	97.6	39:24	0.49	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.4	0.32	79.3	29:53		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:08	0.81	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:38	0.5	

Client Information

Project Name: SWP-Wilmington
Sample ID: MW-17 SWP Log#17556

Laboratory Information

Project ID: G440-6
Sample ID: 15195

Collection Date/Time: 14-Feb-01 15:40
Receipt Date: 15-Feb-01
Extraction Date: 28-Feb-01
Analysis Date: 02-Mar-01

Sample Information

Matrix: Aqueous
Weight / Volume: 502 mL
Solids / Lipids: NA
Original pH : 7
Batch ID: WG5304

Filename: a01mar01a-13
Retchk: a01mar01a-1
Begin ConCal: a01mar01a-1

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 08Mar01

Reviewed by: [illegible]
Date: 3/8/01

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Method 1613

MW-34 SWP Log#17561

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (ng/L)	EDL (ng/L)	EMPC (ng/L)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.0028				
1,2,3,7,8-PeCDD	ND	0.0012				
1,2,3,4,7,8-HxCDD	ND	0.0020				
1,2,3,6,7,8-HxCDD	ND	0.0023				
1,2,3,7,8,9-HxCDD	ND	0.0020				
1,2,3,4,6,7,8-HpCDD	0.0055			38:48	0.96	A
OCDD	0.0345			42:36	0.93	A
2,3,7,8--TCDF	ND	0.0029				
1,2,3,7,8-PeCDF	ND	0.0005				
2,3,4,7,8-PeCDF	ND	0.0008				
1,2,3,4,7,8-HxCDF	EMPC	0.0009	0.0015	35:05	0.97	
1,2,3,6,7,8-HxCDF	0.0013			35:11	1.2	A
2,3,4,6,7,8-HxCDF	0.0014			35:37	1.19	A
1,2,3,7,8,9-HxCDF	ND	0.0009				
1,2,3,4,6,7,8-HpCDF	0.0188			37:41	1.12	A
1,2,3,4,7,8,9-HpCDF	ND	0.0018				
OCDF	0.0110			42:51	0.84	A
Total TCDDs	ND	0.0028				
Total PeCDDs	ND	0.0038				
Total HxCDDs	ND	0.0057				
Total HpCDDs	0.0120					
Total TCDFs	ND	0.0029				
Total PeCDFs	ND	0.0006				
Total HxCDFs	0.0088		0.0103			
Total HpCDFs	0.0188		0.0347			
ITEF TEQ (ND=0)	0.0006		0.0007			
ITEF TEQ (ND=½)	0.0030		0.0031			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	MW-34 SWP Log#17561	Matrix:	Aqueous
		Weight / Volume:	505 mL
Laboratory Information		Solids / Lipids:	NA
		Original pH :	5
Project ID:	G440-6	Batch ID:	WG5287
Sample ID:	15038		
		Filename:	a23feb01a-13
Collection Date/Time:	15-Feb-01 09:30	Retchk:	a23feb01a-1
Receipt Date:	15-Feb-01	Begin ConCal:	a23feb01a-1
Extraction Date:	21-Feb-01		
Analysis Date:	24-Feb-01	Initial Cal:	m1613-052699m

Sample Information

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Method 1613

MW-34 SWP Log#17561

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	1	0.70	70.2	29:50	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	1	0.89	89.3	33:21	1.6	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	1	0.82	81.6	35:44	1.21	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1	0.87	87.0	35:50	1.21	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	1	0.69	68.8	38:48	1.02	
$^{13}C_{12}$-OCDD	2	1.16	57.8	42:35	0.82	
$^{13}C_{12}$-2,3,7,8-TCDF	1	0.39	39.4	28:54	0.82	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1	1.01	101.0	32:35	1.58	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1	0.65	65.2	33:10	1.54	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1	0.80	79.8	35:05	0.50	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1	0.80	79.6	35:10	0.51	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1	0.79	78.6	35:37	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1	1.09	108.6	36:19	0.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1	0.82	81.7	37:40	0.49	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1	0.82	81.6	39:24	0.49	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.4	0.29	71.8	29:52		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:08	0.81	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:37	0.51	

Client Information

Project Name: SWP-Wilmington
Sample ID: MW-34 SWP Log#17561

Laboratory Information

Project ID: G440-6
Sample ID: 15038

Collection Date/Time: 15-Feb-01 09:30
Receipt Date: 15-Feb-01
Extraction Date: 21-Feb-01
Analysis Date: 24-Feb-01

Sample Information

Matrix: Aqueous
Weight / Volume: 505 mL
Solids / Lipids: NA
Original pH : 5
Batch ID: WG5287

Filename: a23feb01a-13
Retchk: a23feb01a-1
Begin ConCal: a23feb01a-1

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 02Mar01

Reviewed by: [illegible]
Date: 3/2/01

Method 1613

MW-12 SWP Log#17569

Southern Wood Piedmont

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Analytical Data Summary Sheet

Analyte	Amount (ng/L)	EDL (ng/L)	EMPC (ng/L)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.0014				
1,2,3,7,8-PeCDD	ND	0.0011				
1,2,3,4,7,8-HxCDD	ND	0.0018				
1,2,3,6,7,8-HxCDD	0.0162			35:51	1.12	A
1,2,3,7,8,9-HxCDD	EMPC	0.0017	0.0026	36:03	0.76	
1,2,3,4,6,7,8-HpCDD	0.921			38:50	1.07	
OCDD	9.88			42:37	0.88	
2,3,7,8--TCDF	ND	0.0011				
1,2,3,7,8-PeCDF	ND	0.0007				
2,3,4,7,8-PeCDF	EMPC	0.0006	0.0013	33:11	1.3	
1,2,3,4,7,8-HxCDF	0.0036			35:06	1.28	A
1,2,3,6,7,8-HxCDF	ND	0.0012				
2,3,4,6,7,8-HxCDF	0.0025			35:38	1.16	A
1,2,3,7,8,9-HxCDF	ND	0.0015				
1,2,3,4,6,7,8-HpCDF	0.0903			37:41	1.08	
1,2,3,4,7,8,9-HpCDF	0.0086			39:25	1.07	A
OCDF	0.674			42:53	0.85	
Total TCDDs	ND	0.0014				
Total PeCDDs	ND	0.0042				
Total HxCDDs	0.128		0.141			
Total HpCDDs	3.44					
Total TCDFs	ND	0.0011				
Total PeCDFs	ND	0.0007	0.0013			
Total HxCDFs	0.0735					
Total HpCDFs	0.460					
ITEF TEQ (ND=0)	0.0230		0.0239			
ITEF TEQ (ND=½)	0.0245		0.0251			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	MW-12 SWP Log#17569		

Laboratory Information

Project ID:	G440-6		
Sample ID:	15039		
Collection Date/Time:	14-Feb-01	12:45	
Receipt Date:	15-Feb-01		
Extraction Date:	28-Feb-01		
Analysis Date:	01-Mar-01		

Sample Information

Matrix:	Aqueous	
Weight / Volume:	501	mL
Solids / Lipids:	NA	
Original pH :	6	
Batch ID:	WG5304	
Filename:	a01mar01a-10	
Retchk:	a01mar01a-1	
Begin ConCal:	a01mar01a-1	
Initial Cal:	m1613-052699m	

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Method 1613

MW-12 SWP Log#17569

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	1	0.80	79.5	29:52	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	1	0.77	76.7	33:21	1.56	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	1	0.82	82.0	35:45	1.17	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1	0.96	96.4	35:50	1.16	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	1	0.88	88.4	38:49	1.06	
$^{13}C_{12}$-OCDD	2	1.83	91.6	42:36	0.87	
$^{13}C_{12}$-2,3,7,8-TCDF	1	0.88	88.4	28:56	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1	0.85	85.2	32:35	1.53	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1	0.88	87.5	33:10	1.54	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1	0.83	83.0	35:05	0.50	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1	0.92	91.7	35:11	0.51	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1	0.87	87.0	35:38	0.5	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1	1.00	99.9	36:19	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1	0.93	93.0	37:41	0.49	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1	1.00	100.4	39:24	0.49	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.4	0.32	79.3	29:53		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:08	0.81	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:38	0.5	

Client Information

Project Name: SWP-Wilmington
Sample ID: MW-12 SWP Log#17569

Laboratory Information

Project ID: G440-6
Sample ID: 15039

Collection Date/Time: 14-Feb-01 12:45
Receipt Date: 15-Feb-01
Extraction Date: 28-Feb-01
Analysis Date: 01-Mar-01

Sample Information

Matrix: Aqueous
Weight / Volume: 501 mL
Solids / Lipids: NA
Original pH : 6
Batch ID: WG5304

Filename: a01mar01a-10
Retchk: a01mar01a-1
Begin ConCal: a01mar01a-1

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 08Mar01

Reviewed by: [illegible]
Date: 3/8/01

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Method 1613

MW-12 SWP Log#17569

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (ng/L)	EDL (ng/L)	EMPC (ng/L)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.0022				
1,2,3,7,8-PeCDD	ND	0.0012				
1,2,3,4,7,8-HxCDD	ND	0.0016				
1,2,3,6,7,8-HxCDD	ND	0.0017				
1,2,3,7,8,9-HxCDD	ND	0.0015				
1,2,3,4,6,7,8-HpCDD	0.0068			38:50	1.11	A
OCDD	0.0473			42:37	0.90	A
2,3,7,8--TCDF	ND	0.0014				
1,2,3,7,8-PeCDF	ND	0.0007				
2,3,4,7,8-PeCDF	ND	0.0007				
1,2,3,4,7,8-HxCDF	ND	0.0009				
1,2,3,6,7,8-HxCDF	ND	0.0009				
2,3,4,6,7,8-HxCDF	ND	0.0010				
1,2,3,7,8,9-HxCDF	ND	0.0011				
1,2,3,4,6,7,8-HpCDF	0.0011			37:41	1.08	A
1,2,3,4,7,8,9-HpCDF	ND	0.0009				
OCDF	ND	0.0025				
Total TCDDs	ND	0.0022				
Total PeCDDs	ND	0.0039				
Total HxCDDs	ND	0.0048				
Total HpCDDs	0.0172					
Total TCDFs	ND	0.0014				
Total PeCDFs	ND	0.0007				
Total HxCDFs	ND	0.0010				
Total HpCDFs	0.0011		0.0030			
ITEF TEQ (ND=0)	0.0001		0.0001			
ITEF TEQ (ND=½)	0.0022		0.0022			

Client Information

Project Name: SWP-Wilmington
Sample ID: MW-12 SWP Log#17569

Laboratory Information

Project ID: G440-6
Sample ID: 15196

Collection Date/Time: 14-Feb-01 12:45
Receipt Date: 15-Feb-01
Extraction Date: 28-Feb-01
Analysis Date: 02-Mar-01

Sample Information

Matrix: Aqueous
Weight / Volume: 507 mL
Solids / Lipids: NA
Original pH : 5
Batch ID: WG5304

Filename: a01mar01a-14
Retchk: a01mar01a-1
Begin ConCal: a01mar01a-1

Initial Cal: m1613-052699m

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Method 1613

MW-12 SWP Log#17569

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	1	0.79	78.9	29:51	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	1	0.79	78.8	33:21	1.56	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	1	0.87	87.1	35:45	1.14	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1	1.00	99.8	35:50	1.15	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	1	0.95	94.5	38:49	1.05	
$^{13}C_{12}$-OCDD	2	1.86	93.1	42:36	0.88	
$^{13}C_{12}$-2,3,7,8-TCDF	1	0.86	86.3	28:55	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1	0.88	87.9	32:35	1.55	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1	0.91	91.0	33:10	1.51	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1	0.87	86.6	35:05	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1	0.93	92.5	35:11	0.51	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1	0.94	93.7	35:37	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1	1.05	105.3	36:19	0.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1	1.00	100.3	37:41	0.48	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1	1.14	113.8	39:25	0.48	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.4	0.32	79.3	29:53		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:09	0.8	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:37	0.51	

Client Information

Project Name: SWP-Wilmington
Sample ID: MW-12 SWP Log#17569

Laboratory Information

Project ID: G440-6
Sample ID: 15196

Collection Date/Time: 14-Feb-01 12:45
Receipt Date: 15-Feb-01
Extraction Date: 28-Feb-01
Analysis Date: 02-Mar-01

Sample Information

Matrix: Aqueous
Weight / Volume: 507 mL
Solids / Lipids: NA
Original pH : 5
Batch ID: WG5304

Filename: a01mar01a-14
Retchk: a01mar01a-1
Begin ConCal: a01mar01a-1

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 08Mar01

Reviewed by: [illegible]
Date: 3/05/01

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Method 1613

MW-14 SWP Log#17572

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (ng/L)	EDL (ng/L)	EMPC (ng/L)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.0018				
1,2,3,7,8-PeCDD	ND	0.0011				
1,2,3,4,7,8-HxCDD	ND	0.0013				
1,2,3,6,7,8-HxCDD	EMPC	0.0014	0.0057	35:51	1.04	
1,2,3,7,8,9-HxCDD	0.0028			36:03	1.17	A
1,2,3,4,6,7,8-HpCDD	0.0383			38:50	1.04	A
OCDD	0.155			42:37	0.89	
2,3,7,8--TCDF	ND	0.0015				
1,2,3,7,8-PeCDF	0.0015			32:36	1.61	A
2,3,4,7,8-PeCDF	0.0022			33:12	1.49	A
1,2,3,4,7,8-HxCDF	0.0107			35:06	1.17	A
1,2,3,6,7,8-HxCDF	0.0041			35:11	1.15	A
2,3,4,6,7,8-HxCDF	0.0043			35:38	1.11	A
1,2,3,7,8,9-HxCDF	0.0040			36:22	1.1	A
1,2,3,4,6,7,8-HpCDF	1.12			37:41	1.09	
1,2,3,4,7,8,9-HpCDF	0.0099			39:25	1	A
OCDF	0.762			42:53	0.83	
Total TCDDs	ND	0.0018				
Total PeCDDs	ND	0.0052				
Total HxCDDs	0.0410		0.0467			
Total HpCDDs	0.0878					
Total TCDFs	ND	0.0015				
Total PeCDFs	0.0037					
Total HxCDFs	0.375		0.376			
Total HpCDFs	2.00					
ITEF TEQ (ND=0)	0.0164		0.0169			
ITEF TEQ (ND=½)	0.0178		0.0182			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	MW-14 SWP Log#17572		

Laboratory Information

Project ID:	G440-6		
Sample ID:	15040		
Collection Date/Time:	14-Feb-01 14:30		
Receipt Date:	15-Feb-01		
Extraction Date:	28-Feb-01		
Analysis Date:	01-Mar-01		

Sample Information

Matrix:	Aqueous	
Weight / Volume:	502	mL
Solids / Lipids:	NA	
Original pH :	8	
Batch ID:	WG5304	
Filename:	a01mar01a-11	
Retchk:	a01mar01a-1	
Begin ConCal:	a01mar01a-1	
Initial Cal:	m1613-052699m	

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Method 1613

MW-14 SWP Log#17572

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	1	0.80	79.6	29:52	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	1	0.75	75.0	33:21	1.57	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	1	0.77	77.1	35:45	1.14	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1	0.91	90.9	35:50	1.14	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	1	0.85	84.5	38:49	1.07	
$^{13}C_{12}$-OCDD	2	1.59	79.3	42:36	0.85	
$^{13}C_{12}$-2,3,7,8-TCDF	1	0.70	69.9	28:55	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1	0.88	88.1	32:35	1.51	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1	0.69	68.5	33:10	1.53	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1	0.81	80.7	35:05	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1	0.89	89.2	35:11	0.5	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1	0.79	78.5	35:38	0.5	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1	0.99	98.9	36:19	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1	0.90	89.6	37:41	0.49	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1	0.96	96.3	39:25	0.49	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.4	0.31	78.0	29:53		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:09	0.81	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:38	0.5	

Client Information

Project Name: SWP-Wilmington
Sample ID: MW-14 SWP Log#17572

Laboratory Information

Project ID: G440-6
Sample ID: 15040

Collection Date/Time: 14-Feb-01 14:30
Receipt Date: 15-Feb-01
Extraction Date: 28-Feb-01
Analysis Date: 01-Mar-01

Sample Information

Matrix: Aqueous
Weight / Volume: 502 mL
Solids / Lipids: NA
Original pH : 8
Batch ID: WG5304

Filename: a01mar01a-11
Retchk: a01mar01a-1
Begin ConCal: a01mar01a-1

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 08Mar01

Reviewed by: [illegible]
Date: 3/8/01

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Method 1613

MW-12-Dup

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (ng/L)	EDL (ng/L)	EMPC (ng/L)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.0017				
1,2,3,7,8-PeCDD	ND	0.0012				
1,2,3,4,7,8-HxCDD	EMPC	0.0017	0.0026	35:46	0.95	
1,2,3,6,7,8-HxCDD	0.0236			35:50	1.09	A
1,2,3,7,8,9-HxCDD	0.0042			36:03	1.09	A
1,2,3,4,6,7,8-HpCDD	1.48			38:50	1.05	
OCDD	16.0			42:37	0.86	
2,3,7,8--TCDF	ND	0.0014				
1,2,3,7,8-PeCDF	EMPC	0.0008	0.0019	32:36	1.32	
2,3,4,7,8-PeCDF	0.0021			33:11	1.34	A
1,2,3,4,7,8-HxCDF	0.0058			35:06	1.21	A
1,2,3,6,7,8-HxCDF	0.0023			35:12	1.13	A
2,3,4,6,7,8-HxCDF	0.0040			35:38	1.30	A
1,2,3,7,8,9-HxCDF	EMPC	0.0013	0.0028	36:20	0.99	
1,2,3,4,6,7,8-HpCDF	0.148			37:41	1.08	
1,2,3,4,7,8,9-HpCDF	0.0149			39:25	1.04	A
OCDF	1.07			42:53	0.85	
Total TCDDs	ND	0.0017				
Total PeCDDs	ND	0.0047				
Total HxCDDs	0.204		0.226			
Total HpCDDs	5.46					
Total TCDFs	ND	0.0014				
Total PeCDFs	0.0021		0.0040			
Total HxCDFs	0.116		0.118			
Total HpCDFs	0.738					
ITEF TEQ (ND=0)	0.0385		0.0392			
ITEF TEQ (ND=½)	0.0399		0.0404			

Client Information

Project Name: SWP-Wilmington
Sample ID: MW-12-Dup

Laboratory Information

Project ID: G440-6
Sample ID: 15041

Collection Date/Time: 14-Feb-01 12:45
Receipt Date: 15-Feb-01
Extraction Date: 28-Feb-01
Analysis Date: 02-Mar-01

Sample Information

Matrix: Aqueous
Weight / Volume: 501 mL
Solids / Lipids: NA
Original pH : 6
Batch ID: WG5304

Filename: a01mar01a-12
Retchk: a01mar01a-1
Begin ConCal: a01mar01a-1

Initial Cal: m1613-052699m

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Method 1613

MW-12-Dup

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	1	0.76	75.6	29:51	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	1	0.73	73.0	33:21	1.53	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	1	0.84	84.1	35:45	1.19	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1	0.97	97.2	35:50	1.16	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	1	0.90	89.9	38:49	1.05	
$^{13}C_{12}$-OCDD	2	1.88	94.1	42:36	0.87	
$^{13}C_{12}$-2,3,7,8-TCDF	1	0.82	81.5	28:56	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1	0.79	78.9	32:36	1.52	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1	0.81	80.6	33:10	1.54	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1	0.84	83.5	35:05	0.50	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1	0.91	91.2	35:11	0.51	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1	0.86	86.0	35:38	0.5	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1	1.01	101.1	36:19	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1	0.93	93.4	37:41	0.49	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1	1.01	101.4	39:24	0.5	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.4	0.30	74.5	29:53		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:09	0.81	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:38	0.5	

Client Information

Project Name: SWP-Wilmington
Sample ID: MW-12-Dup

Laboratory Information

Project ID: G440-6
Sample ID: 15041

Collection Date/Time: 14-Feb-01 12:45
Receipt Date: 15-Feb-01
Extraction Date: 28-Feb-01
Analysis Date: 02-Mar-01

Sample Information

Matrix: Aqueous
Weight / Volume: 501 mL
Solids / Lipids: NA
Original pH : 6
Batch ID: WG5304

Filename: a01mar01a-12
Retchk: a01mar01a-1
Begin ConCal: a01mar01a-1

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 08Mar01

Reviewed by: [illegible]
Date: 3/8/01

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Method 1613

Equip DF21501

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (ng/L)	EDL (ng/L)	EMPC (ng/L)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.0032				
1,2,3,7,8-PeCDD	ND	0.0015				
1,2,3,4,7,8-HxCDD	ND	0.0023				
1,2,3,6,7,8-HxCDD	ND	0.0025				
1,2,3,7,8,9-HxCDD	ND	0.0022				
1,2,3,4,6,7,8-HpCDD	ND	0.0032				
OCDD	ND	0.0126				
2,3,7,8--TCDF	ND	0.0016				
1,2,3,7,8-PeCDF	ND	0.0010				
2,3,4,7,8-PeCDF	ND	0.0008				
1,2,3,4,7,8-HxCDF	ND	0.0014				
1,2,3,6,7,8-HxCDF	ND	0.0015				
2,3,4,6,7,8-HxCDF	ND	0.0015				
1,2,3,7,8,9-HxCDF	ND	0.0016				
1,2,3,4,6,7,8-HpCDF	ND	0.0013				
1,2,3,4,7,8,9-HpCDF	ND	0.0019				
OCDF	ND	0.0054				
Total TCDDs	ND	0.0032				
Total PeCDDs	ND	0.0015				
Total HxCDDs	ND	0.0023				
Total HpCDDs	ND	0.0032				
Total TCDFs	ND	0.0016				
Total PeCDFs	ND	0.0009				
Total HxCDFs	ND	0.0015				
Total HpCDFs	ND	0.0015				
ITEF TEQ (ND=0)	0.0000		0.0000			
ITEF TEQ (ND=½)	0.0030		0.0030			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	Equip DF21501		
Laboratory Information			
Project ID:	G440-6		
Sample ID:	15042		
Collection Date/Time:	15-Feb-01	12:00	
Receipt Date:	15-Feb-01		
Extraction Date:	21-Feb-01		
Analysis Date:	24-Feb-01		

Sample Information

Matrix:	Aqueous	
Weight / Volume:	502	mL
Solids / Lipids:	NA	
Original pH :	5	
Batch ID:	WG5287	
Filename:	a23feb01a-14	
Retchk:	a23feb01a-1	
Begin ConCal:	a23feb01a-1	
Initial Cal:	m1613-052699m	

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Method 1613

Equip DF21501

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	1	0.57	56.7	29:50	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	1	0.79	79.4	33:21	1.57	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	1	0.76	76.0	35:44	1.22	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1	0.80	79.6	35:49	1.22	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	1	0.57	56.7	38:48	1.05	
$^{13}C_{12}$-OCDD	2	0.88	44.2	42:35	0.81	
$^{13}C_{12}$-2,3,7,8-TCDF	1	0.67	66.7	28:54	0.82	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1	0.79	78.6	32:35	1.64	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1	0.95	95.0	33:10	1.56	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1	0.69	68.7	35:04	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1	0.70	70.3	35:10	0.51	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1	0.74	73.5	35:37	0.5	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1	0.88	87.9	36:19	0.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1	0.66	66.4	37:40	0.48	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1	0.66	66.2	39:24	0.5	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.4	0.27	67.3	29:52		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:08	0.81	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:37	0.5	

Client Information

Project Name: SWP-Wilmington
Sample ID: Equip DF21501

Laboratory Information

Project ID: G440-6
Sample ID: 15042

Collection Date/Time: 15-Feb-01 12:00
Receipt Date: 15-Feb-01
Extraction Date: 21-Feb-01
Analysis Date: 24-Feb-01

Sample Information

Matrix: Aqueous
Weight / Volume: 502 mL
Solids / Lipids: NA
Original pH : 5
Batch ID: WG5287

Filename: a23feb01a-14
Retchk: a23feb01a-1
Begin ConCal: a23feb01a-1

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 02Mar01

Reviewed by: [illegible]
Date: 3/2/01

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Analytical Data Summary Sheet

Analyte	Amount (ng/L)	EDL (ng/L)	EMPC (ng/L)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.0018				
1,2,3,7,8-PeCDD	ND	0.0015				
1,2,3,4,7,8-HxCDD	ND	0.0016				
1,2,3,6,7,8-HxCDD	ND	0.0017				
1,2,3,7,8,9-HxCDD	ND	0.0015				
1,2,3,4,6,7,8-HpCDD	0.0065			38:49	0.95	A
OCDD	0.0362			42:36	0.85	A
2,3,7,8--TCDF	ND	0.0012				
1,2,3,7,8-PeCDF	EMPC	0.0009	0.0018	32:36	1.21	
2,3,4,7,8-PeCDF	EMPC	0.0008	0.0016	33:11	1.16	
1,2,3,4,7,8-HxCDF	0.0023			35:06	1.10	A
1,2,3,6,7,8-HxCDF	0.0018			35:12	1.27	A
2,3,4,6,7,8-HxCDF	0.0016			35:39	1.20	A
1,2,3,7,8,9-HxCDF	0.0017			36:20	1.39	A
1,2,3,4,6,7,8-HpCDF	0.0035			37:41	1.03	A
1,2,3,4,7,8,9-HpCDF	0.0018			39:24	1.14	A
OCDF	EMPC	0.0023	0.0047	42:53	0.88	
Total TCDDs	ND	0.0018				
Total PeCDDs	ND	0.0041				
Total HxCDDs	ND	0.0062				
Total HpCDDs	0.0148					
Total TCDFs	ND	0.0012				
Total PeCDFs	ND	0.0008	0.0034			
Total HxCDFs	0.0073					
Total HpCDFs	0.0076					
ITEF TEQ (ND=0)	0.0009		0.0018			
ITEF TEQ (ND=½)	0.0026		0.0033			

Laboratory Information

Sample ID: WG5304-1

Extraction Date: 28-Feb-01
Analysis Date: 01-Mar-01

Sample Information

Matrix: Aqueous
Weight / Volume: 500 mL
Solids / Lipids: NA
Original pH : 5
Batch ID: WG5304

Filename: a01mar01a-8
Retchk: a01mar01a-1
Begin ConCal: a01mar01a-1

Initial Cal: m1613-052699m

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Method 1613 - QC BLANK Results

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Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	1	0.75	75.0	29:52	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	1	0.74	74.3	33:21	1.51	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	1	0.82	81.5	35:45	1.14	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1	0.94	94.2	35:50	1.14	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	1	0.91	91.2	38:49	1.04	
$^{13}C_{12}$-OCDD	2	1.82	91.0	42:36	0.87	
$^{13}C_{12}$-2,3,7,8-TCDF	1	0.87	87.4	28:56	0.82	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1	0.82	81.9	32:35	1.53	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1	0.91	90.9	33:10	1.54	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1	0.86	85.9	35:05	0.50	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1	0.92	91.9	35:11	0.49	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1	0.90	90.3	35:38	0.5	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1	0.97	96.8	36:19	0.49	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1	0.98	98.0	37:41	0.48	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1	1.06	105.7	39:25	0.48	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.4	0.31	78.0	29:53		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:08	0.8	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:38	0.5	

Laboratory Information

Sample ID: WG5304-1

Extraction Date: 28-Feb-01
Analysis Date: 01-Mar-01

Analyzed by: HMP
Date: 08 Mar01

Sample Information

Matrix: Aqueous
Weight / Volume: 500 mL
Solids / Lipids: NA
Original pH : 5
Batch ID: WG5304

Filename: a01mar01a-8
Retchk: a01mar01a-1
Begin ConCal: a01mar01a-1

Initial Cal: m1613-052699m

Reviewed by: [illegible]
Date: 3/12/01

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Method 1613 - QC BLANK Results

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Analytical Data Summary Sheet

Analyte	Amount (ng/L)	EDL (ng/L)	EMPC (ng/L)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.0034				
1,2,3,7,8-PeCDD	ND	0.0027				
1,2,3,4,7,8-HxCDD	ND	0.0038				
1,2,3,6,7,8-HxCDD	ND	0.0038				
1,2,3,7,8,9-HxCDD	ND	0.0035				
1,2,3,4,6,7,8-HpCDD	ND	0.0066				
OCDD	ND	0.0106				
2,3,7,8--TCDF	ND	0.0023				
1,2,3,7,8-PeCDF	ND	0.0018				
2,3,4,7,8-PeCDF	ND	0.0016				
1,2,3,4,7,8-HxCDF	ND	0.0017				
1,2,3,6,7,8-HxCDF	ND	0.0016				
2,3,4,6,7,8-HxCDF	ND	0.0019				
1,2,3,7,8,9-HxCDF	ND	0.0020				
1,2,3,4,6,7,8-HpCDF	ND	0.0029				
1,2,3,4,7,8,9-HpCDF	ND	0.0040				
OCDF	ND	0.0073				
Total TCDDs	ND	0.0034				
Total PeCDDs	ND	0.0027				
Total HxCDDs	ND	0.0037				
Total HpCDDs	ND	0.0066				
Total TCDFs	ND	0.0023				
Total PeCDFs	ND	0.0017				
Total HxCDFs	ND	0.0018				
Total HpCDFs	ND	0.0034				
ITEF TEQ (ND=0)	0.0000		0.0000			
ITEF TEQ (ND=½)	0.0039		0.0039			

Laboratory Information

Sample ID: WG5287-1

Extraction Date: 21-Feb-01
Analysis Date: 22-Feb-01

Sample Information

Matrix: Aqueous
Weight / Volume: 500 mL
Solids / Lipids: NA
Original pH : 5
Batch ID: WG5287

Filename: a22feb01a-3
Retchk: a22feb01a-1
Begin ConCal: a22feb01a-1

Initial Cal: m1613-052699m

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Method 1613 - QC BLANK Results

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Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	1	0.73	73.3	30:28	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	1	0.77	77.4	33:37	1.54	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	1	0.69	69.3	36:05	1.23	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1	0.91	90.5	36:10	1.23	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	1	0.63	62.5	39:16	1.01	
$^{13}C_{12}$-OCDD	2	1.12	55.9	43:12	0.88	
$^{13}C_{12}$-2,3,7,8-TCDF	1	0.82	81.8	29:32	0.84	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1	0.87	86.9	32:51	1.56	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1	0.95	94.7	33:27	1.56	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1	0.65	65.0	35:25	0.50	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1	0.86	86.2	35:31	0.51	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1	0.80	79.8	35:58	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1	0.90	90.1	36:42	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1	0.78	77.6	38:05	0.45	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1	0.79	79.4	39:53	0.44	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.4	0.30	75.3	30:30		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:46	0.79	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:58	0.51	

Laboratory Information

Sample ID: WG5287-1

Extraction Date: 21-Feb-01
Analysis Date: 22-Feb-01

Analyzed by: HMP
Date: 23Feb01

Sample Information

Matrix: Aqueous
Weight / Volume: 500 mL
Solids / Lipids: NA
Original pH : 5
Batch ID: WG5287

Filename: a22feb01a-3
Retchk: a22feb01a-1
Begin ConCal: a22feb01a-1

Initial Cal: m1613-052699m

Reviewed by: [illegible]
Date: 2/23/01

Analytical Results
for
Ongoing Precision Result (OPR)

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Analyte	Spiked	AMT	REC	Range pg/ul		Flag
	pg/ul	pg/ul	%	Lower	Upper	
2,3,7,8-TCDD	5.00	4.71	94.1	3.4	7.9	
1,2,3,7,8-PeCDD	12.5	12.4	99.4	8.8	17.8	
1,2,3,4,7,8-HxCDD	12.5	11.2	89.3	8.8	20.5	
1,2,3,6,7,8-HxCDD	12.5	11.9	95.2	9.5	16.8	
1,2,3,7,8,9-HxCDD	12.5	12.0	95.9	8.0	20.3	
1,2,3,4,6,7,8-HpCDD	12.5	14.1	113	8.8	17.5	
OCDD	25.0	26.3	105	19.5	36.0	
2,3,7,8-TCDF	5.00	4.78	95.7	3.8	7.9	
1,2,3,7,8-PeCDF	12.5	12.5	99.7	10.0	16.8	
2,3,4,7,8-PeCDF	12.5	11.8	94.4	8.5	20.0	
1,2,3,4,7,8-HxCDF	12.5	12.6	101	9.0	16.8	
1,2,3,6,7,8-HxCDF	12.5	12.9	103	10.5	16.3	
2,3,4,6,7,8-HxCDF	12.5	13.5	108	8.8	19.5	
1,2,3,7,8,9-HxCDF	12.5	11.6	92.7	9.8	16.3	
1,2,3,4,6,7,8-HpCDF	12.5	12.5	99.7	10.3	15.3	
1,2,3,4,7,8,9-HpCDF	12.5	11.8	94.0	9.8	17.3	
OCDF	25.0	25.7	103	15.8	42.5	

= Outside range limits
* = Ion Ratio Out

QC Information

OPR Project No:	WG5304
Extraction Date:	28-Feb-01
Analysis Date:	1-MAR-01
Method:	1613

Sample Information

Matrix:	Aqueous

File Information

OPR Filename :	a01mar01a-7
Retchk:	a01mar01a-1
Begin ConCal:	a01mar01a-1
Initial Cal:	m1613-052699m

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Analytical Results
for
Ongoing Precision Result (OPR)

Labeled Standard	Spiked pg/ul	AMT pg/ul	REC %	Range pg/ul Lower	Range pg/ul Upper	Flag
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	50.0	37.9	75.7	10	87.5	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	50.0	38.2	76.4	10.5	113.5	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	50.0	39.9	79.8	10.5	96.5	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	50.0	46.9	93.8	12.5	81.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	50.0	45.3	90.6	13	83	
$^{13}C_{12}$-OCDD	100	88.8	88.8	13	198.5	
$^{13}C_{12}$-2,3,7,8-TCDF	50.0	41.7	83.3	11	76	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	50.0	40.8	81.7	10.5	96	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	50.0	43.7	87.4	6.5	164	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	50.0	40.6	81.2	9.5	101	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	50.0	43.4	86.8	10.5	79.5	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	50.0	42.9	85.9	22	88	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	50.0	48.3	96.6	8.5	102.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	50.0	46.5	93.1	10.5	79	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	50.0	52.5	105	10	93	
Cleanup Standards						
$^{37}C_{14}$-2,3,7,8-TCDD	20.0	15.3	76.7	6.2	38.2	

QC Information

OPR Project No:	WG5304
Extraction Date:	28-Feb-01
Analysis Date:	1-MAR-01
Method:	1613

File Information

OPR Filename :	a01mar01a-7
Retchk:	a01mar01a-1
Begin ConCal:	a01mar01a-1
Initial Cal:	m1613-052699m

Sample Information

Matrix: Aqueous

Reviewed by: [illegible]

Date Reviewed: 3/5/01

Analytical Results
for
Ongoing Precision Result (OPR)

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Analyte	Spiked pg/ul	AMT pg/ul	REC %	Range pg/ul Lower	Range pg/ul Upper	Flag
2,3,7,8-TCDD	5.00	4.48	89.5	3.4	7.9	
1,2,3,7,8-PeCDD	12.5	11.8	94.7	8.8	17.8	
1,2,3,4,7,8-HxCDD	12.5	11.0	88.3	8.8	20.5	
1,2,3,6,7,8-HxCDD	12.5	11.9	95.2	9.5	16.7	
1,2,3,7,8,9-HxCDD	12.5	11.3	90.3	8.0	20.3	
1,2,3,4,6,7,8-HpCDD	12.5	13.4	107	8.8	17.5	
OCDD	25.0	24.9	99.5	19.5	36.0	
2,3,7,8-TCDF	5.00	4.81	96.2	3.8	7.9	
1,2,3,7,8-PeCDF	12.5	12.6	100	10.0	16.8	
2,3,4,7,8-PeCDF	12.5	11.9	94.9	8.5	20.0	
1,2,3,4,7,8-HxCDF	12.5	13.0	104	9.0	16.8	
1,2,3,6,7,8-HxCDF	12.5	12.9	103	10.5	16.3	
2,3,4,6,7,8-HxCDF	12.5	13.1	105	8.8	19.5	
1,2,3,7,8,9-HxCDF	12.5	11.1	88.9	9.8	16.3	
1,2,3,4,6,7,8-HpCDF	12.5	11.5	92.3	10.3	15.3	
1,2,3,4,7,8,9-HpCDF	12.5	10.5	83.9	9.8	17.3	
OCDF	25.0	26.0	104	18.5	36.5	

= Outside range limits
* = Ion Ratio Out

QC Information

OPR Project No:	WG5287
Extraction Date:	21-Feb-01
Analysis Date:	22-FEB-01
Method:	1613

Sample Information

Matrix:	Aqueous

File Information

OPR Filename :	a22feb01a-2
Retchk:	a22feb01a-1
Begin ConCal:	a22feb01a-1
Initial Cal:	m1613-052699m

Analytical Results
for
Ongoing Precision Result (OPR)

RECEIVED
MAR 1 2 2001
SOUTHERN WOOD PIEDMONT

Labeled Standard	Spiked pg/ul	AMT pg/ul	REC %	Range pg/ul Lower	Range pg/ul Upper	Flag
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	50.0	29.1	58.2	10	87.5	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	50.0	38.4	76.8	10.5	113.5	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	50.0	34.2	68.4	10.5	96.5	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	50.0	44.2	88.5	12.5	81.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	50.0	29.6	59.2	13	83	
$^{13}C_{12}$-OCDD	100	50.4	50.4	13	198.5	
$^{13}C_{12}$-2,3,7,8-TCDF	50.0	32.3	64.6	11	76	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	50.0	38.4	76.9	10.5	96	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	50.0	43.9	87.9	6.5	164	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	50.0	30.3	60.6	9.5	101	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	50.0	40.2	80.4	10.5	79.5	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	50.0	37.6	75.2	22	88	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	50.0	40.4	80.8	8.5	102.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	50.0	36.8	73.6	10.5	79	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	50.0	37.6	75.2	10	93	
Cleanup Standards						
$^{37}C_{14}$-2,3,7,8-TCDD	20.0	13.3	66.6	6.2	38.2	

QC Information

OPR Project No:	WG5287
Extraction Date:	21-Feb-01
Analysis Date:	22-FEB-01
Method:	1613

File Information

OPR Filename :	a22feb01a-2
Retchk:	a22feb01a-1
Begin ConCal:	a22feb01a-1
Initial Cal:	m1613-052699m

Sample Information

Matrix: Aqueous

Reviewed by: _____ Date Reviewed: 2/23/01

PARADIGM ANALYTICAL LABORATORIES, INC.
2627 Northchase Parkway SE, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC# 21691

Page 1 of 1

Client: Southern Wood Piedmont
Address: P.O. Box 5447
Address: Spartanburg, SC 29304
Quote #:

Project ID: SWP-Wilmington
Contact: Bill Arrants
Phone: 864-599-1070 X103
Fax: 864-599-1087

Date: 2/15/01
Turnaround: Standard
Job Number: 979007.A0-29
P.O. Number:

Report To: Sandra Watson
P.O. Box 5447
Spartanburg, SC 29304
Invoice To: Sandra Watson

Sample ID	Date	Time	Matrix	Preservatives: none				Analyses: Dioxin/Furans Method 1613	Dissolved Dioxins/Furans Method 1613							Comments: Please specify any special reporting requirements
																G440-6
SWP Log # MW-40 17548	2/14/01	11:55	Liquid	X				2								* Wilmington Dioxin/Furan
MW-17 17556	2/14/01	15:40						2	2							Site Specific Constituent List
MW-34 17561	2/15/01	9:30						2								
MW-12 17569		12:45						2	2							Dissolved Dioxin/Furan
MW-14 17572		14:30						2								analysis are to be
MW-12-Dup		12:45						2								filtered at the lab.
Equip DF21501		12:00						2								

Relinquished By	Date	Time	Received By	Date	Time	Temperature	State Certification Requested
Gregory B. Kurtz	2/15/01	15:40	Julie Johnson	2/15/01	1540	walk in on ice	NC ____ SC ____ Other ____
							SEE REVERSE FOR TERMS AND CONDITIONS

RECEIVED MAR 1 3 2001 SOUTHERN WOOD PIEDMONT

ORIGINAL

FedEx. *USA Airbill* FedEx Tracking Number 809058791167

Form I.D. No. 0210 SNA21 **Sender's Copy**

1 From (please print and press hard)

Date 4/23/01 Sender's FedEx Account Number 2181-1829-1

Sender's Name Greg Kuntz Phone (803) 796-6240

Company SCHNABEL ENGINEERING ASSOC

Address 104 CORPORATE BLVD STE 410 Dept/Floor/Suite/Room

City WEST COLUMBIA State SC ZIP 29169

2 Your Internal Billing Reference Information (Optional) (First 24 characters will appear on invoice) 979007.A0-30

3 To (please print and press hard)

Recipient's Name Gloria Fulwood Phone (912) 355-7858

Company Savannah Labs

Address 5102 LaRoche Ave (We Cannot Deliver to P.O. Boxes or P.O. ZIP Codes) Dept/Floor/Suite/Room

(To "HOLD" at FedEx location, print FedEx address here)

☐ Check here if residence (Extra charge applies for FedEx Express Saver)

City Savannah State GA ZIP 31404

For HOLD at FedEx Location check here

☐ Hold Weekday (Not available with FedEx First Overnight)

☐ Hold Saturday (Not available at all locations) (Available for FedEx Priority Overnight and FedEx 2Day only)

For WEEKEND Delivery check here (Extra Charge. Not available to all locations)

☐ Saturday Delivery (Available for FedEx Priority Overnight and FedEx 2Day only)

☐ NEW Sunday Delivery (Available for FedEx Priority Overnight only)

4a Express Package Service *Packages under 150 lbs.* Delivery commitment may be later in some areas.

☒ FedEx Priority Overnight (Next business morning)

☐ FedEx Standard Overnight (Next business afternoon)

☐ FedEx First Overnight (Earliest next business morning delivery to select locations) (Higher rates apply)

☐ FedEx 2Day (Second business day)

☐ FedEx Express Saver (Third business day)

FedEx Letter Rate not available. Minimum charge: One pound rate.

4b Express Freight Service *Packages over 150 lbs.* Delivery commitment may be later in some areas.

☐ FedEx Overnight Freight (Next business day)

☐ FedEx 2Day Freight (Second business day)

☐ FedEx Express Saver Freight (Up to 3 business days)

(Call for delivery schedule. See back for detailed descriptions of freight services.)

5 Packaging

☐ FedEx Letter ☐ FedEx Pak (Declared value limit $500) ☐ FedEx Box ☐ FedEx Tube ☒ Other Pkg.

6 Special Handling

Does this shipment contain dangerous goods?* (One box must be checked)

☒ No ☐ Yes (As per attached Shipper's Declaration) ☐ Yes (Shipper's Declaration not required)

☐ Dry Ice — Dry Ice, 9, UN 1845 _____ x _____ kg.

☐ Cargo Aircraft Only

*Dangerous Goods cannot be shipped in FedEx packaging.

7 Payment

Bill to: ☒ Sender (Account No. in Section 1 will be billed) ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

(Enter FedEx Account No. or Credit Card No. below)

FedEx Account No.

Credit Card No. Exp. Date

Total Packages	Total Weight	Total Declared Value*	Total Charges
1	27	$ .00	$

*When declaring a value higher than $100 per shipment, you pay an additional charge. See SERVICE CONDITIONS, DECLARED VALUE, AND LIMIT OF LIABILITY section for further information.

8 Release Signature *Sign to authorize delivery without obtaining signature.*

Your signature authorizes Federal Express to deliver this shipment without obtaining a signature and agrees to indemnify and hold harmless Federal Express from any resulting claims.

321

Service Conditions, Declared Value, and Limit of Liability – By using this Airbill, you agree to the service conditions in our current Service Guide or U.S. Government Service Guide. Both are available on request. SEE BACK OF SENDER'S COPY OF THIS AIRBILL FOR INFORMATION AND ADDITIONAL TERMS. We will not be responsible for any claim in excess of $100 per package whether the result of loss, damage, or delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, and document your actual loss in a timely manner. Your right to recover from us for any loss includes intrinsic value of the package, loss of sales, interest, profit, attorney's fees, costs, and other forms of damage, whether direct, incidental, consequential, or special, and is limited to the greater of $100 or the declared value but cannot exceed actual documented loss. The maximum declared value for any FedEx Letter and FedEx Pak is $500. Federal Express may, upon your request, and with some limitations, refund all transportation charges paid. See the FedEx Service Guide for further details.

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SEVERN TRENT SERVICES
STL Savannah

LOG NO: S1-12484
Received: 24 APR 01
Reported: 17 MAY 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 120410517

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , BIOLOGICAL TISSUE SAMPLES	DATE/ TIME SAMPLED
12484-1	BIO-16-COMP (#17773)	04-23-01/11:30
12484-2	BIO-12A (#17771)	04-23-01/11:30
12484-3	BIO-12B (#17772)	04-23-01/11:30
12484-4	BIO-10B (#17774)	04-23-01/14:00
12484-5	BIO-10D (#17775)	04-23-01/14:00

PARAMETER	12484-1	12484-2	12484-3	12484-4	12484-5
Acid & Base Neutral Extractables (8270)					
Naphthalene, mg/kg	ND	ND	ND	ND	ND
2-Chloronaphthalene, mg/kg	ND	ND	ND	ND	ND
Acenaphthylene, mg/kg	ND	ND	ND	ND	ND
Acenaphthene, mg/kg	ND	ND	ND	ND	ND
Fluorene, mg/kg	ND	ND	ND	ND	ND
Hexachlorobenzene, mg/kg	ND	ND	ND	ND	ND
Phenanthrene, mg/kg	ND	ND	ND	ND	ND
Anthracene, mg/kg	ND	ND	ND	ND	ND
Di-n-butylphthalate, mg/kg	ND	ND	ND	ND	ND
Fluoranthene, mg/kg	ND	ND	ND	ND	ND
Pyrene, mg/kg	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate, mg/kg	ND	ND	ND	ND	ND
Chrysene, mg/kg	ND	ND	ND	ND	ND
Benzo(a)anthracene, mg/kg	ND	ND	ND	ND	ND
Benzo(b)fluoranthene, mg/kg	ND	ND	ND	ND	ND
Benzo(k)fluoranthene, mg/kg	ND	ND	ND	ND	ND
Benzo(a)pyrene, mg/kg	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene, mg/kg	ND	ND	ND	ND	ND

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , BIOLOGICAL TISSUE SAMPLES	DATE/ TIME SAMPLED
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12484-2	BIO-12A (#17771)	04-23-01/11:30
12484-3	BIO-12B (#17772)	04-23-01/11:30
12484-4	BIO-10B (#17774)	04-23-01/14:00
12484-5	BIO-10D (#17775)	04-23-01/14:00

PARAMETER	12484-1	12484-2	12484-3	12484-4	12484-5
Dibenzo(a,h)anthracene, mg/kg	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene, mg/kg	ND	ND	ND	ND	ND
2-Chlorophenol, mg/kg	ND	ND	ND	ND	ND
Phenol, mg/kg	ND	ND	ND	ND	ND
2,4-Dimethylphenol, mg/kg	ND	ND	ND	ND	ND
Pentachlorophenol, mg/kg	ND	ND	ND	ND	ND
2-Methylphenol (o-Cresol), mg/kg	ND	ND	ND	ND	ND
2-Methylnaphthalene, mg/kg	ND	ND	ND	ND	ND
Dibenzofuran, mg/kg	ND	ND	ND	ND	ND
Carbazole, mg/kg	ND	ND	ND	ND	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/kg	ND	ND	ND	ND	ND
Tetrachlorophenols, mg/kg	ND	ND	ND	ND	ND
Dilution factor	1	1	1	1	1
% Lipids, %	2.4	2.2	1.1	2.3	4.4
Arsenic (6010), mg/kg	ND	ND	ND	ND	ND
Chromium (6010), mg/kg	ND	ND	1.4	ND	ND
Copper (6010), mg/kg	2.7	ND	3.2	ND	ND

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LOG NO	SAMPLE DESCRIPTION , BIOLOGICAL TISSUE SAMPLES	DATE/ TIME SAMPLED
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12484-2	BIO-12A (#17771)	04-23-01/11:30
12484-3	BIO-12B (#17772)	04-23-01/11:30
12484-4	BIO-10B (#17774)	04-23-01/14:00
12484-5	BIO-10D (#17775)	04-23-01/14:00

PARAMETER	12484-1	12484-2	12484-3	12484-4	12484-5

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Project: WILMINGTON
Sampled By: Client
Code: 120410517

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , BIOLOGICAL TISSUE SAMPLES	DATE/ TIME SAMPLED
12484-6	BIO-10E (#17776)	04-23-01/14:00

PARAMETER	12484-6
Acid & Base Neutral Extractables (8270)	
Naphthalene, mg/kg	ND
2-Chloronaphthalene, mg/kg	ND
Acenaphthylene, mg/kg	ND
Acenaphthene, mg/kg	ND
Fluorene, mg/kg	ND
Hexachlorobenzene, mg/kg	ND
Phenanthrene, mg/kg	ND
Anthracene, mg/kg	ND
Di-n-butylphthalate, mg/kg	ND
Fluoranthene, mg/kg	ND
Pyrene, mg/kg	ND
bis(2-Ethylhexyl)phthalate, mg/kg	ND
Chrysene, mg/kg	ND
Benzo(a)anthracene, mg/kg	ND
Benzo(b)fluoranthene, mg/kg	ND
Benzo(k)fluoranthene, mg/kg	ND
Benzo(a)pyrene, mg/kg	ND
Indeno(1,2,3-cd)pyrene, mg/kg	ND
Dibenzo(a,h)anthracene, mg/kg	ND
Benzo(g,h,i)perylene, mg/kg	ND
2-Chlorophenol, mg/kg	ND
Phenol, mg/kg	ND

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Project: WILMINGTON
Sampled By: Client
Code: 120410517

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , BIOLOGICAL TISSUE SAMPLES	DATE/ TIME SAMPLED
12484-6	BIO-10E (#17776)	04-23-01/14:00

PARAMETER	12484-6
2,4-Dimethylphenol, mg/kg	ND
Pentachlorophenol, mg/kg	ND
2-Methylphenol (o-Cresol), mg/kg	ND
2-Methylnaphthalene, mg/kg	ND
Dibenzofuran, mg/kg	ND
Carbazole, mg/kg	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/kg	ND
Tetrachlorophenols, mg/kg	ND
Dilution factor	1
% Lipids, %	5.1
Arsenic (6010), mg/kg	ND
Chromium (6010), mg/kg	ND
Copper (6010), mg/kg	ND

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CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 120410517

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC FOR BIOLOGICAL TISSUE	DATE/ TIME SAMPLED
12484-7	Method Blank	
12484-8	Detection Limit	
12484-9	Method Detection Limit (MDL)	
12484-10	Accuracy (mean % recovery)	
12484-11	Precision (% RPD)	

PARAMETER	12484-7	12484-8	12484-9	12484-10	12484-11
Acid & Base Neutral Extractables (8270)					
Naphthalene, mg/kg	ND	0.99	0.011	48 %	2 %
2-Chloronaphthalene, mg/kg	ND	0.99	0.011	---	---
Acenaphthylene, mg/kg	ND	0.99	0.013	65 %	12 %
Acenaphthene, mg/kg	ND	0.99	0.013	61 %	13 %
Fluorene, mg/kg	ND	0.99	0.012	62 %	16 %
Hexachlorobenzene, mg/kg	ND	0.99	0.010	---	---
Phenanthrene, mg/kg	ND	0.99	0.012	67 %	12 %
Anthracene, mg/kg	ND	0.99	0.012	66 %	16 %
Di-n-butylphthalate, mg/kg	ND	0.99	0.015	---	---
Fluoranthene, mg/kg	ND	0.99	0.011	60 %	22 %
Pyrene, mg/kg	ND	0.99	0.011	69 %	9 %
bis(2-Ethylhexyl)phthalate, mg/kg	ND	0.99	0.046	---	---
Chrysene, mg/kg	ND	0.99	0.012	68 %	16 %
Benzo(a)anthracene, mg/kg	ND	0.99	0.0096	67 %	18 %
Benzo(b)fluoranthene, mg/kg	ND	0.99	0.017	62 %	13 %
Benzo(k)fluoranthene, mg/kg	ND	0.99	0.013	60 %	13 %
Benzo(a)pyrene, mg/kg	ND	0.99	0.011	62 %	14 %
Indeno(1,2,3-cd)pyrene, mg/kg	ND	0.99	0.020	68 %	19 %

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Project: WILMINGTON
Sampled By: Client
Code: 120410517

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC FOR BIOLOGICAL TISSUE	DATE/ TIME SAMPLED
12484-7	Method Blank	
12484-8	Detection Limit	
12484-9	Method Detection Limit (MDL)	
12484-10	Accuracy (mean % recovery)	
12484-11	Precision (% RPD)	

PARAMETER	12484-7	12484-8	12484-9	12484-10	12484-11
Dibenzo(a,h)anthracene, mg/kg	ND	0.99	0.015	62 %	13 %
Benzo(g,h,i)perylene, mg/kg	ND	0.99	0.019	---	---
2-Chlorophenol, mg/kg	ND	0.99	0.011	42 %	12 %
Phenol, mg/kg	ND	0.99	0.019	42 %	0 %
2,4-Dimethylphenol, mg/kg	ND	0.99	0.010	61 %	10 %
Pentachlorophenol, mg/kg	ND	5.1	0.028	68 %	31 %
2-Methylphenol (o-Cresol), mg/kg	ND	0.99	0.013	51 %	4 %
2-Methylnaphthalene, mg/kg	ND	0.99	0.0092	---	---
Dibenzofuran, mg/kg	ND	0.99	0.012	---	---
Carbazole, mg/kg	ND	0.99	0.022	68 %	24 %
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/kg	ND	0.99	0.061	48 %	10 %
Tetrachlorophenols, mg/kg	ND	0.99	0.025	56 %	14 %
Dilution factor	1	1	---	---	---
% Lipids, %	ND	---	---	8.1 %	2.0 %
Arsenic (6010), mg/kg	ND	1.0	0.45	96 %	4.7 %
Chromium (6010), mg/kg	ND	1.0	0.17	102 %	4.9 %
Copper (6010), mg/kg	ND	2.0	0.72	102 %	4.8 %

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Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 120410517

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC FOR BIOLOGICAL TISSUE	DATE/ TIME SAMPLED
12484-12	Analyst Initials	
12484-13	EPA Method Numbers	
12484-14	Dates Extracted	
12484-15	Dates Analyzed	

PARAMETER	12484-12	12484-13	12484-14	12484-15
Acid & Base Neutral Extractables (8270)				
Naphthalene	RB	8270C	05.02.01	05.16.01
2-Chloronaphthalene	RB	8270C	05.02.01	05.16.01
Acenaphthylene	RB	8270C	05.02.01	05.16.01
Acenaphthene	RB	8270C	05.02.01	05.16.01
Fluorene	RB	8270C	05.02.01	05.16.01
Hexachlorobenzene	RB	8270C	05.02.01	05.16.01
Phenanthrene	RB	8270C	05.02.01	05.16.01
Anthracene	RB	8270C	05.02.01	05.16.01
Di-n-butylphthalate	RB	8270C	05.02.01	05.16.01
Fluoranthene	RB	8270C	05.02.01	05.16.01
Pyrene	RB	8270C	05.02.01	05.16.01
bis(2-Ethylhexyl)phthalate	RB	8270C	05.02.01	05.16.01
Chrysene	RB	8270C	05.02.01	05.16.01
Benzo(a)anthracene	RB	8270C	05.02.01	05.16.01
Benzo(b)fluoranthene	RB	8270C	05.02.01	05.16.01
Benzo(k)fluoranthene	RB	8270C	05.02.01	05.16.01
Benzo(a)pyrene	RB	8270C	05.02.01	05.16.01
Indeno(1,2,3-cd)pyrene	RB	8270C	05.02.01	05.16.01
Dibenzo(a,h)anthracene	RB	8270C	05.02.01	05.16.01

SEVERN TRENT SERVICES
STL Savannah
5102 LaRoche Avenue • Savannah, GA 31404 • Tel: 912 354 7858 • Fax: 912 352 0165 • www.stl-inc.com

LOG NO: S1-12484
Received: 24 APR 01
Reported: 17 MAY 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 120410517

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC FOR BIOLOGICAL TISSUE	DATE/ TIME SAMPLED
12484-12	Analyst Initials	
12484-13	EPA Method Numbers	
12484-14	Dates Extracted	
12484-15	Dates Analyzed	

PARAMETER	12484-12	12484-13	12484-14	12484-15
Benzo(g,h,i)perylene	RB	8270C	05.02.01	05.16.01
2-Chlorophenol	RB	8270C	05.02.01	05.16.01
Phenol	RB	8270C	05.02.01	05.16.01
2,4-Dimethylphenol	RB	8270C	05.02.01	05.16.01
Pentachlorophenol	RB	8270C	05.02.01	05.16.01
2-Methylphenol (o-Cresol)	RB	8270C	05.02.01	05.16.01
2-Methylnaphthalene	RB	8270C	05.02.01	05.16.01
Dibenzofuran	RB	8270C	05.02.01	05.16.01
Carbazole	RB	8270C	05.02.01	05.16.01
3-Methylphenol/4-Methylphenol (m&p-Cresol)	RB	8270C	05.02.01	05.16.01
Tetrachlorophenols	RB	8270C	05.02.01	05.16.01
% Lipids	SR	OB 10/90	---	05.02.01
Arsenic (6010)	CK	6010	---	05.03.01
Chromium (6010)	CK	6010	---	05.03.01
Copper (6010)	CK	6010	---	05.03.01

Methods: EPA SW-846 ND = Not Detected

Gloria D. Fulwood

Gloria D. Fulwood, Project Manager

Final Page Of Report

Serial Number 122353

SEVERN TRENT SERVICES

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

STL Savannah

STL Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.stl-inc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: SWP-Wilmington	PROJECT NO.	PROJECT LOCATION (STATE): NC
STL (LAB) PROJECT MANAGER: G. Fulwood	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Southern Wood Piedmont	CLIENT PHONE: 864-599-1070	CLIENT FAX: 864-599-1087
CLIENT NAME: Bill Arrants	CLIENT E-MAIL: william.arrants@rayonier.com	
CLIENT ADDRESS: P.O. Box 5447 Spartanburg, SC 29304		
COMPANY CONTRACTING THIS WORK (if applicable): Schnabel Engineering - Greg Kuntz		

PAGE 1 OF 1

STANDARD REPORT DELIVERY: ☒
DATE DUE:
EXPEDITED REPORT DELIVERY (SURCHARGE): ○
DATE DUE:
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS: SVOC, Total Lipids; Cr, Cu, As

PRESERVATIVE: none

GBK 4/27/01

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX TYPE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
4/23/01	11:30	~~Bio-18-Comp~~ Bio-16-Comp SWP Log#: 17773	C	1	Wilmington Site
	11:30	Bio-12A 17771	G		Specific Semi-Volat
	11:30	Bio-12B 17772			and metals only,
	14:00	Bio-10A - Hold Do Not Analyze			Total Lipids
	14:00	Bio-10B 17774			
	14:00	Bio-10C - Hold Do Not Analyze			* Hold and Greg
	14:00	Bio-10D 17775			Kuntz will call
	14:00	Bio-10E 17776			with SWP Log#s
					and what samples
					to analyze.

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Gregory B. Kuntz	4/23/01	18:45			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
EMPTY CONTAINERS								

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY SEALS	SUBMITTED TO STL SAVANNAH BY:	REMARKS

CLIENT'S FIELD COPY

803-796-6240 SCHNABEL ENGINEERING 123 P02/04 APR 27 '01 11:28

Sample Time 2538 sec
504 Volts DC
Pulsing 60 secs
Pulse width 4.5 ms
Amps 7

Greenfield Lake
Page 1 of 2

FISH TISSUE SAMPLE DATA LOG
SOUTHERN WOOD PIEDMONT COMPANY AND NORTH CAROLINA STATE PORTS AUTHORITY
WILMINGTON, NEW HANOVER COUNTY, SOUTH CAROLINA

FISH TISSUE SAMPLE	DATE SAMPLE COLLECTED	TIME SAMPLE COLLECTED	SAMPLE COLLECTION METHOD	FISH SPECIES	FISH WEIGHT	FISH LENGTH	FISH LESIONS OR ABNORMALITIES	COMPOSITE OR SINGLE FISH	LOCATION AND REMARKS
Bio-10A	4/23/01	14:00	Electrofish Boat	Warmouth	74 g	157 mm	none	single	Savannah Labs didn't analy
				"	60 g	144 mm	"	"	Paradigm 5
Bio-10B				Redear	28 g	117 mm	"	C	Paradigm
				"	22 g	107 mm	"	"	
				Bluegill	32 g	120 mm	"	"	
				"	32 g	122 mm	"	"	Savannah Labs
				Redear	22 g	108 mm	"	"	
				"	28 g	117 mm	"	"	
				"	8 g	85 mm	"	"	

Notes:
The fish tissue sample is to be rinsed with surface water from collection point.
The recommended weight per sample is 100 grams of filet.
The fish tissue sample is to be wrapped in aluminum foil and placed in waterproof freezer bag.
Sample to be placed immediately on ice and shipped priority overnight daily to laboratory.
Complete chain-of-custody.

Sampler: Greg Kuntz
Signature: Gregory B. Kuntz
Date: 4/23/01

pH = 6.9
Temp = 23.9° C
ORP = 123

DO = 6.76 mg/L
Salinity = 0.1 ppt
Conductivity = 210 umhos

803-796-6240 SCHNABEL ENGINEERING 122 P02 APR 27 '01 11:25

Greenfield Creek from railroad west to tidal gate.
Drainage Ditch- No fish located.

FISH TISSUE SAMPLE DATA LOG
SOUTHERN WOOD PIEDMONT COMPANY AND NORTH CAROLINA STATE PORTS AUTHORITY
WILMINGTON, NEW HANOVER COUNTY, SOUTH CAROLINA

FISH TISSUE SAMPLE	DATE SAMPLE COLLECTED	TIME SAMPLE COLLECTED	SAMPLE COLLECTION METHOD	FISH SPECIES	FISH WEIGHT	FISH LENGTH	FISH LESIONS OR ABNORMALITIES	COMPOSITE OR SINGLE FISH	LOCATION AND REMARKS
Bio-13A	4/24/01	10:30	Electrofish Boat	Bowfin	1398g	1.80 ft	none	S	Paradigm
	"	"	"	"	1532g	1.86 ft	"	"	Savannah Labs
Bio-13B				Gizzard Shad	606g	380mm	"	"	Paradigm
				"	480g	370mm	"	"	Savannah Labs
Bio-13B Dup				"	668g	385mm	-Total Fish	filleted	for samples
				"	120g	fillet	"	"	Paradigm
				"	134g	fillet	"	"	Savannah Labs
Bio-13C				Largemouth	370g	292mm	-Total Fish	filleted	for samples
				"	74g	fillet	"	"	Paradigm
				"	62g	fillet	"	"	Savannah Labs

Notes:
The fish tissue sample is to be rinsed with surface water from collection point.
The recommended weight per sample is 100 grams of filet.
The fish tissue sample is to be wrapped in aluminum foil and placed in waterproof freezer bag.
Sample to be placed immediately on ice and shipped priority overnight daily to laboratory.
Complete chain-of-custody.

Sampler: Greg Kuntz
Signature: Greg B. Kuntz
Date: 4/24/01

pH = 6.8
Temp = 20.7°C
ORP = 108

DO = 4.32 mg/L
Salinity = 0.1 ppt
Conductivity = 283 umhos

1892 sec
168 volts DC
60 ~~cycles~~ pulses per cycle
2.5 millisec pulsewidth
7 amps

803-796-6240 SCHNABEL ENGINEERING 122 P03 APR 27 '01 11:25

Greenfield Creek and
Drainage Ditch

FISH TISSUE SAMPLE DATA LOG
SOUTHERN WOOD PIEDMONT COMPANY AND NORTH CAROLINA STATE PORTS AUTHORITY
WILMINGTON, NEW HANOVER COUNTY, SOUTH CAROLINA

FISH TISSUE SAMPLE	DATE SAMPLE COLLECTED	TIME SAMPLE COLLECTED	SAMPLE COLLECTION METHOD	FISH SPECIES	FISH WEIGHT	FISH LENGTH	FISH LESIONS OR ABNORMALITIES	COMPOSITE OR SINGLE FISH	LOCATION AND REMARKS
Bio-13D	4/24/01	10:30	Electrofish Boat	Pumpkinseed	30g	114mm	none	C	
				Blue Spotted	6g	60mm	eroded tail	C	
				"	2g	50mm	none	"	
				"	2g	50mm	"	"	Paradigm only.
				"	1g	43mm	"	"	Not enough sample
				"	2g	52mm	"	"	to go to Savannah Lab
				"	2g	52mm	"	"	
Bio-13E				Striped Mullet	394g	340mm	"	S	Paradigm
				"	412g	338mm	"	S	Savannah Labs
Bio-13E-Dup				"	340g	332mm	"	S	Paradigm
				"	526g	385mm	"	S	Savannah Labs
small fish avian receptor Bio-14 Comp		Gambusia, shad, silver side; Darter	Backpack			56g	"	C	Paradigm
			"	"		52g	"	C	Savannah Labs

Notes:
The fish tissue sample is to be rinsed with surface water from collection point.
The recommended weight per sample is 100 grams of filet.
The fish tissue sample is to be wrapped in aluminum foil and placed in waterproof freezer bag.
Sample to be placed immediately on ice and shipped priority overnight daily to laboratory.
Complete chain-of-custody.

Sampler: Greg Kurtz
Signature: Gregory B. Kurtz
Date: 4/24/01

-also saw 1 carp 2' 12 pounds
1 gar 3' 4 pounds

803-796-6240 SCHNABEL ENGINEERING 122 P04 APR 27 '01 11:25

Burnt Mill Creek 500 feet south of Market Street to Metts Drive.

FISH TISSUE SAMPLE DATA LOG
SOUTHERN WOOD PIEDMONT COMPANY AND NORTH CAROLINA STATE PORTS AUTHORITY
WILMINGTON, NEW HANOVER COUNTY, SOUTH CAROLINA

FISH TISSUE SAMPLE	DATE SAMPLE COLLECTED	TIME SAMPLE COLLECTED	SAMPLE COLLECTION METHOD	FISH SPECIES	FISH WEIGHT	FISH LENGTH	FISH LESIONS OR ABNORMALITIES	COMPOSITE OR SINGLE FISH	LOCATION AND REMARKS
Bio-11A	4/25/01	11:00	Electroshock Boat	Largemouth	234g	220mm	none	S	Savannah Labs
				"	72g	177mm	"	"	Paradigm
Bio-11B				Striped Mullet	372g	344mm	"	"	Savannah Labs
				"	176g	285mm	"	"	Paradigm
Bio-11C	Dup			Redear	22g	108mm	"	C	
				"	12g	88mm	"	C	
				"	8g	80mm	"	"	
				"	4g	68mm	"	"	
				"	4g	68mm	"	"	Savannah Labs
				"	4g	68mm	"	"	
				"	6g	65mm	"	"	
				"	4g	65mm	"	"	
				"	4g	65mm	"	"	
				Bluegill	5g	65mm			

Notes:
The fish tissue sample is to be rinsed with surface water from collection point.
The recommended weight per sample is 100 grams of filet.
The fish tissue sample is to be wrapped in aluminum foil and placed in waterproof freezer bag.
Sample to be placed immediately on ice and shipped priority overnight daily to laboratory.
Complete chain-of-custody.

Sampler: Greg Kuntz
Signature: Gregory B. Kuntz
Date: 4/25/01

Also saw large carp 2-3' 15-25 pounds

Salinity = 0.1 ppt
pH = 7.2
ORP = 121

Temp = 18.9° C
Conductivity = 220 umhos
D.O. = 7.80 mg/L

Sample Time: 1749 sec
504 volts DC
60 pulses per second
4.5 milliseconds
7 amps

803-796-6240 SCHNABEL ENGINEERING 122 P05 APR 27 '01 11:26

Burnt Mill Creek

FISH TISSUE SAMPLE DATA LOG
SOUTHERN WOOD PIEDMONT COMPANY AND NORTH CAROLINA STATE PORTS AUTHORITY
WILMINGTON, NEW HANOVER COUNTY, SOUTH CAROLINA

FISH TISSUE SAMPLE	DATE SAMPLE COLLECTED	TIME SAMPLE COLLECTED	SAMPLE COLLECTION METHOD	FISH SPECIES	FISH WEIGHT	FISH LENGTH	FISH LESIONS OR ABNORMALITIES	COMPOSITE OR SINGLE FISH	LOCATION AND REMARKS
Bio-11C	4/25/01 Dup	11:00	Electrofish Boat	Bluegill	30g	120mm	none	C	
				Redear	20g	110mm	"	"	
				"	12g	92mm	"	"	
				"	10g	85mm	"	"	Paradigm
				"	2g	58mm	"	"	
				"	2g	58mm	"	"	
Bio-11C				Redear	14g	94mm	"	"	
				"	24g	110mm	"	"	
				"	6g	77mm	"	"	
				"	8g	87mm	"	"	Savannah Labs
				"	10g	86mm	"	"	
				Bluegill	4g	67mm	"	"	
				"	2g	61mm	"	"	
				"	26g	118mm			

Notes:
The fish tissue sample is to be rinsed with surface water from collection point.
The recommended weight per sample is 100 grams of filet.
The fish tissue sample is to be wrapped in aluminum foil and placed in waterproof freezer bag.
Sample to be placed immediately on ice and shipped priority overnight daily to laboratory.
Complete chain-of-custody.

Sampler: Greg Kurtz
Signature: Gregory B. Kurtz
Date: 4/25/01

803-796-6240 SCHNABEL ENGINEERING 122 P06 APR 27 '01 11:26

Burnt Mill Creek

FISH TISSUE SAMPLE DATA LOG
SOUTHERN WOOD PIEDMONT COMPANY AND NORTH CAROLINA STATE PORTS AUTHORITY
WILMINGTON, NEW HANOVER COUNTY, SOUTH CAROLINA

FISH TISSUE SAMPLE	DATE SAMPLE COLLECTED	TIME SAMPLE COLLECTED	SAMPLE COLLECTION METHOD	FISH SPECIES	FISH WEIGHT	FISH LENGTH	FISH LESIONS OR ABNORMALITIES	COMPOSITE OR SINGLE FISH	LOCATION AND REMARKS
Bio-11C	4/25/01	11:00	Electrofish Boat	Redear	28 g	124 mm	none	C	
				Bluegill	6 g	74 mm	"	"	
				Redear	14 g	94 mm	"	"	
				Bluegill	8 g	77 mm	"	"	
				Redear	6 g	72 mm	"	"	Paradigm
				"	6 g	80 mm	"	"	
				"	4 g	69 mm	"	"	
				"	4 g	69 mm	"	"	
				"	8 g	77 mm	"	"	
small fish main ← Bio-15-Comp - Gambusia, silverside			Fluitfish Backpack		52 g		"	C	Savannah Labs
					54 g		"	C	Paradigm
Bio-15-Comp-Dup		"	"		62 g		"	C	Savannah Labs
					64 g		"	C	Paradigm

Notes:
The fish tissue sample is to be rinsed with surface water from collection point.
The recommended weight per sample is 100 grams of filet.
The fish tissue sample is to be wrapped in aluminum foil and placed in waterproof freezer bag.
Sample to be placed immediately on ice and shipped priority overnight daily to laboratory.
Complete chain-of-custody.

Sampler: Greg Kurtz
Signature: Greg B. Kurtz
Date: 4/25/01

803-796-6240 SCHNABEL ENGINEERING 122 P07 APR 27 '01 11:26

Serial Number [illegible]

SEVERN TRENT SERVICES

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

STL Savannah

STL Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.stl-inc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	PAGE	OF
SWP-Wilmington		NC	1	1

STL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
G. Falwood		

CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Southern Wood Piedmont	864-599-1070	864-599-1087

CLIENT NAME	CLIENT E-MAIL
Bill Arrants	william.arrants@pravonetwork

CLIENT ADDRESS: P.O. Box 5447 Spartanburg SC 29304

COMPANY CONTRACTING THIS WORK (if applicable): Schnabel Engineering - Greg Kuntz

STANDARD REPORT DELIVERY: X
DATE DUE:
EXPEDITED REPORT DELIVERY (SURCHARGE): O
DATE DUE:
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID Fish Tissue; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS: SVOC, Total Lipids; Cr, Cu, As

PRESERVATIVE: none

GBK 4/27/01

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
4/23/01	11:30	~~Bio-18-Comp~~ Bio-16-Comp SWP Log# 17773	C	1	Wilmington Site
	11:30	Bio-12A 17771	G		Specific Semi-Volatile
	11:30	Bio-12B 17772			and metals only.
	14:00	Bio-10A - Hold Do Not Analyze			Total Lipids
	14:00	Bio-10B 17774			
	14:00	Bio-10C - Hold Do Not Analyze			* Hold and Greg
	14:00	Bio-10D 17775			Kuntz will call
	14:00	Bio-10E 17776			with SWP Log#
					and what samples
					to analyze.

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Theresa B. Kirk	4/23/01	17:45			

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS								

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES / NO	CUSTODY SEAL NO.	STL SAVANNAH LOG NO.	LABORATORY REMARKS

CLIENT FIELD COPY

FedEx *USA Airbill* FedEx Tracking Number 809058791178

Form I.D. No. 0210 SNA21 **Sender's Copy**

1 From (please print and press hard)

Date 4/23/01 Sender's FedEx Account Number 2181-1829-1

Sender's Name Greg Kuntz Phone (803) 796-6240

Company SCHNABEL ENGINEERING ASSOC

Address 104 CORPORATE BLVD STE 410 Dept./Floor/Suite/Room

City WEST COLUMBIA State SC ZIP 29169

2 Your Internal Billing Reference Information (Optional) (First 24 characters will appear on invoice)

3 To (please print and press hard)

Recipient's Name Gloria Fulwood Phone (912) 354-7858

Company Savannah Labs

Address 5102 LaRoche Ave (To "HOLD" at FedEx location, print FedEx address here) (We Cannot Deliver to P.O. Boxes or P.O. ZIP Codes) Dept./Floor/Suite/Room

☐ Check here if residence (Extra charge applies for FedEx Express Saver)

City Savannah State GA ZIP 31404

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For WEEKEND Delivery check here (Extra Charge. Not available to all locations)

☐ Saturday Delivery (Available for FedEx Priority Overnight and FedEx 2Day only) ☒ NEW Sunday Delivery (Available for FedEx Priority Overnight only)

4a Express Package Service *Packages under 150 lbs.* Delivery commitment may be later in some areas.

☒ FedEx Priority Overnight (Next business morning) ☐ FedEx Standard Overnight (Next business afternoon)

☐ FedEx First Overnight (Earliest next business morning delivery to select locations) (Higher rates apply)

☐ FedEx 2Day (Second business day) ☐ FedEx Express Saver (Third business day)

FedEx Letter Rate not available. Minimum charge: One pound rate.

4b Express Freight Service *Packages over 150 lbs.* Delivery commitment may be later in some areas.

☐ FedEx Overnight Freight (Next business day) ☐ FedEx 2Day Freight (Second business day) ☐ FedEx Express Saver Freight (Up to 3 business days)

(Call for delivery schedule. See back for detailed descriptions of freight services.)

5 Packaging ☐ FedEx Letter ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube ☒ Other Pkg.

Declared value limit $500.

6 Special Handling (One box must be checked)

Does this shipment contain dangerous goods?* ☒ No ☐ Yes (As per attached Shipper's Declaration) ☐ Yes (Shipper's Declaration not required)

☐ Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg. ☐ Cargo Aircraft Only

*Dangerous Goods cannot be shipped in FedEx packaging.

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(Enter FedEx Account No. or Credit Card No. below)

FedEx Account No.

Credit Card No. Exp. Date

Total Packages	Total Weight	Total Declared Value*	Total Charges
1	23	$ .00	$

*When declaring a value higher than $100 per shipment, you pay an additional charge. See SERVICE CONDITIONS, DECLARED VALUE, AND LIMIT OF LIABILITY section for further information.

8 Release Signature *Sign to authorize delivery without obtaining signature.*

Your signature authorizes Federal Express to deliver this shipment without obtaining a signature and agrees to indemnify and hold harmless Federal Express from any resulting claims.

321

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SEVERN TRENT SERVICES
STL Savannah

LOG NO: S1-12510
Received: 25 APR 01
Reported: 15 MAY 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 161810515

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , BIOLOGICAL TISSUE SAMPLES	DATE/ TIME SAMPLED
12510-1	BIO-13A (#17777)	04-24-01/10:30
12510-2	BIO-13B (#17778)	04-24-01/10:30
12510-3	BIO-13C (#17779)	04-24-01/10:30
12510-4	BIO-13E (#17781)	04-24-01/10:30
12510-5	BIO-13B-DUP	04-24-01/10:30

PARAMETER	12510-1	12510-2	12510-3	12510-4	12510-5
Acid & Base Neutral Extractables (8270)					
Naphthalene, mg/kg	ND	ND	ND	ND	ND
2-Chloronaphthalene, mg/kg	ND	ND	ND	ND	ND
Acenaphthylene, mg/kg	ND	ND	ND	ND	ND
Acenaphthene, mg/kg	ND	ND	ND	ND	2.8
Fluorene, mg/kg	ND	ND	ND	ND	1.5
Hexachlorobenzene, mg/kg	ND	ND	ND	ND	ND
Phenanthrene, mg/kg	ND	ND	ND	ND	ND
Anthracene, mg/kg	ND	ND	ND	ND	ND
Di-n-butylphthalate, mg/kg	ND	ND	ND	ND	ND
Fluoranthene, mg/kg	ND	ND	ND	ND	ND
Pyrene, mg/kg	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate, mg/kg	ND	ND	ND	ND	ND
Chrysene, mg/kg	ND	ND	ND	ND	ND
Benzo(a)anthracene, mg/kg	ND	ND	ND	ND	ND

SEVERN TRENT SERVICES
STL Savannah
5102 LaRoche Avenue • Savannah, GA 31404 • Tel: 912 354 7858 • Fax: 912 352 0165 • www.stl-inc.com

LOG NO: S1-12510
Received: 25 APR 01
Reported: 15 MAY 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 161810515

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , BIOLOGICAL TISSUE SAMPLES	DATE/ TIME SAMPLED
12510-1	BIO-13A (#17777)	04-24-01/10:30
12510-2	BIO-13B (#17778)	04-24-01/10:30
12510-3	BIO-13C (#17779)	04-24-01/10:30
12510-4	BIO-13E (#17781)	04-24-01/10:30
12510-5	BIO-13B-DUP	04-24-01/10:30

PARAMETER	12510-1	12510-2	12510-3	12510-4	12510-5
Benzo(b)fluoranthene, mg/kg	ND	ND	ND	ND	ND
Benzo(k)fluoranthene, mg/kg	ND	ND	ND	ND	ND
Benzo(a)pyrene, mg/kg	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene, mg/kg	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene, mg/kg	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene, mg/kg	ND	ND	ND	ND	ND
2-Chlorophenol, mg/kg	ND	ND	ND	ND	ND
Phenol, mg/kg	ND	ND	ND	ND	ND
2,4-Dimethylphenol, mg/kg	ND	ND	ND	ND	ND
Pentachlorophenol, mg/kg	ND	ND	ND	ND	ND
2-Methylphenol (o-Cresol), mg/kg	ND	ND	ND	ND	ND
2-Methylnaphthalene, mg/kg	ND	ND	ND	ND	ND
Dibenzofuran, mg/kg	ND	ND	ND	ND	1.8
Carbazole, mg/kg	ND	ND	ND	ND	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/kg	ND	ND	ND	ND	ND
Tetrachlorophenols, mg/kg	ND	ND	ND	ND	ND
Dilution factor	1	1	1	1	1

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , BIOLOGICAL TISSUE SAMPLES	DATE/ TIME SAMPLED
12510-1	BIO-13A (#17777)	04-24-01/10:30
12510-2	BIO-13B (#17778)	04-24-01/10:30
12510-3	BIO-13C (#17779)	04-24-01/10:30
12510-4	BIO-13E (#17781)	04-24-01/10:30
12510-5	BIO-13B-DUP	04-24-01/10:30

PARAMETER	12510-1	12510-2	12510-3	12510-4	12510-5
% Lipids, %	2.0	3.2	1.0	3.0	3.3
Arsenic (6010), mg/kg	ND	ND	ND	ND	ND
Chromium (6010), mg/kg	ND	ND	ND	ND	ND
Copper (6010), mg/kg	27	ND	ND	ND	ND

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Project: WILMINGTON
Sampled By: Client
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , BIOLOGICAL TISSUE SAMPLES	DATE/ TIME SAMPLED
12510-6	BIO-13E-DUP	04-24-01/10:30
12510-7	BIO-14-COMP (#17782)	04-24-01/10:30

PARAMETER	12510-6	12510-7
Acid & Base Neutral Extractables (8270)		
Naphthalene, mg/kg	ND	ND
2-Chloronaphthalene, mg/kg	ND	ND
Acenaphthylene, mg/kg	ND	ND
Acenaphthene, mg/kg	ND	ND
Fluorene, mg/kg	ND	ND
Hexachlorobenzene, mg/kg	ND	ND
Phenanthrene, mg/kg	ND	ND
Anthracene, mg/kg	ND	ND
Di-n-butylphthalate, mg/kg	ND	ND
Fluoranthene, mg/kg	ND	ND
Pyrene, mg/kg	ND	ND
bis(2-Ethylhexyl)phthalate, mg/kg	ND	ND
Chrysene, mg/kg	ND	ND
Benzo(a)anthracene, mg/kg	ND	ND
Benzo(b)fluoranthene, mg/kg	ND	ND
Benzo(k)fluoranthene, mg/kg	ND	ND
Benzo(a)pyrene, mg/kg	ND	ND

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Project: WILMINGTON
Sampled By: Client
Code: 161810515

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , BIOLOGICAL TISSUE SAMPLES	DATE/ TIME SAMPLED
12510-6	BIO-13E-DUP	04-24-01/10:30
12510-7	BIO-14-COMP (#17782)	04-24-01/10:30

PARAMETER	12510-6	12510-7
Indeno(1,2,3-cd)pyrene, mg/kg	ND	ND
Dibenzo(a,h)anthracene, mg/kg	ND	ND
Benzo(g,h,i)perylene, mg/kg	ND	ND
2-Chlorophenol, mg/kg	ND	ND
Phenol, mg/kg	ND	ND
2,4-Dimethylphenol, mg/kg	ND	ND
Pentachlorophenol, mg/kg	ND	ND
2-Methylphenol (o-Cresol), mg/kg	ND	ND
2-Methylnaphthalene, mg/kg	ND	ND
Dibenzofuran, mg/kg	ND	ND
Carbazole, mg/kg	ND	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/kg	ND	ND
Tetrachlorophenols, mg/kg	ND	ND
Dilution factor	1	1
% Lipids, %	2.7	2.5
Arsenic (6010), mg/kg	ND	ND
Chromium (6010), mg/kg	ND	ND

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , BIOLOGICAL TISSUE SAMPLES	DATE/ TIME SAMPLED
12510-6	BIO-13E-DUP	04-24-01/10:30
12510-7	BIO-14-COMP (#17782)	04-24-01/10:30

PARAMETER	12510-6	12510-7
Copper (6010), mg/kg	ND	ND

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Project: WILMINGTON
Sampled By: Client
Code: 161810515

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC FOR BIOLOGICAL TISSUE	DATE/ TIME SAMPLED
12510-8	Method Blank	
12510-9	Detection Limit	
12510-10	Method Detection Limit (MDL)	
12510-11	Accuracy (mean % recovery)	
12510-12	Precision (% RPD)	

PARAMETER	12510-8	12510-9	12510-10	12510-11	12510-12
Acid & Base Neutral Extractables (8270)					
Naphthalene, mg/kg	ND	0.99	0.011	48 %	2 %
2-Chloronaphthalene, mg/kg	ND	0.99	0.011	---	---
Acenaphthylene, mg/kg	ND	0.99	0.013	65 %	12 %
Acenaphthene, mg/kg	ND	0.99	0.013	61 %	13 %
Fluorene, mg/kg	ND	0.99	0.012	62 %	16 %
Hexachlorobenzene, mg/kg	ND	0.99	0.010	---	---
Phenanthrene, mg/kg	ND	0.99	0.012	67 %	12 %
Anthracene, mg/kg	ND	0.99	0.012	66 %	16 %
Di-n-butylphthalate, mg/kg	ND	0.99	0.015	---	---
Fluoranthene, mg/kg	ND	0.99	0.011	60 %	22 %
Pyrene, mg/kg	ND	0.99	0.011	69 %	9 %
bis(2-Ethylhexyl)phthalate, mg/kg	ND	0.99	0.046	---	---
Chrysene, mg/kg	ND	0.99	0.012	68 %	16 %
Benzo(a)anthracene, mg/kg	ND	0.99	0.0096	67 %	18 %

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC FOR BIOLOGICAL TISSUE	DATE/ TIME SAMPLED
12510-8	Method Blank	
12510-9	Detection Limit	
12510-10	Method Detection Limit (MDL)	
12510-11	Accuracy (mean % recovery)	
12510-12	Precision (% RPD)	

PARAMETER	12510-8	12510-9	12510-10	12510-11	12510-12
Benzo(b)fluoranthene, mg/kg	ND	0.99	0.017	62 %	13 %
Benzo(k)fluoranthene, mg/kg	ND	0.99	0.013	60 %	13 %
Benzo(a)pyrene, mg/kg	ND	0.99	0.011	62 %	14 %
Indeno(1,2,3-cd)pyrene, mg/kg	ND	0.99	0.020	68 %	19 %
Dibenzo(a,h)anthracene, mg/kg	ND	0.99	0.015	62 %	13 %
Benzo(g,h,i)perylene, mg/kg	ND	0.99	0.019	---	---
2-Chlorophenol, mg/kg	ND	0.99	0.011	42 %	12 %
Phenol, mg/kg	ND	0.99	0.019	42 %	0 %
2,4-Dimethylphenol, mg/kg	ND	0.99	0.010	61 %	10 %
Pentachlorophenol, mg/kg	ND	5.1	0.028	68 %	31 %
2-Methylphenol (o-Cresol), mg/kg	ND	0.99	0.013	51 %	4 %
2-Methylnaphthalene, mg/kg	ND	0.99	0.0092	---	---
Dibenzofuran, mg/kg	ND	0.99	0.012	---	---
Carbazole, mg/kg	ND	0.99	0.022	68 %	24 %
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/kg	ND	0.99	0.061	48 %	10 %
Tetrachlorophenols, mg/kg	ND	0.99	0.025	56 %	14 %
Dilution factor	1	1	---	---	---

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12510-8	Method Blank	
12510-9	Detection Limit	
12510-10	Method Detection Limit (MDL)	
12510-11	Accuracy (mean % recovery)	
12510-12	Precision (% RPD)	

PARAMETER	12510-8	12510-9	12510-10	12510-11	12510-12
% Lipids, %	ND	---	---	8.1 %	2.0 %
Arsenic (6010), mg/kg	ND	1.0	0.45	96 %	4.7 %
Chromium (6010), mg/kg	ND	1.0	0.17	102 %	4.9 %
Copper (6010), mg/kg	ND	2.0	0.72	102 %	4.8 %

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC FOR BIOLOGICAL TISSUE	DATE/ TIME SAMPLED
12510-13	Analyst Initials	
12510-14	EPA Method Numbers	
12510-15	Dates Extracted	
12510-16	Dates Analyzed	

PARAMETER	12510-13	12510-14	12510-15	12510-16
Acid & Base Neutral Extractables (8270)				
Naphthalene	RB	8270C	05.02.01	05.09.01
2-Chloronaphthalene	RB	8270C	05.02.01	05.09.01
Acenaphthylene	RB	8270C	05.02.01	05.09.01
Acenaphthene	RB	8270C	05.02.01	05.09.01
Fluorene	RB	8270C	05.02.01	05.09.01
Hexachlorobenzene	RB	8270C	05.02.01	05.09.01
Phenanthrene	RB	8270C	05.02.01	05.09.01
Anthracene	RB	8270C	05.02.01	05.09.01
Di-n-butylphthalate	RB	8270C	05.02.01	05.09.01
Fluoranthene	RB	8270C	05.02.01	05.09.01
Pyrene	RB	8270C	05.02.01	05.09.01
bis(2-Ethylhexyl)phthalate	RB	8270C	05.02.01	05.09.01
Chrysene	RB	8270C	05.02.01	05.09.01
Benzo(a)anthracene	RB	8270C	05.02.01	05.09.01
Benzo(b)fluoranthene	RB	8270C	05.02.01	05.09.01

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LOG NO	SAMPLE DESCRIPTION , QC FOR BIOLOGICAL TISSUE	DATE/ TIME SAMPLED
12510-13	Analyst Initials	
12510-14	EPA Method Numbers	
12510-15	Dates Extracted	
12510-16	Dates Analyzed	

PARAMETER	12510-13	12510-14	12510-15	12510-16
Benzo(k)fluoranthene	RB	8270C	05.02.01	05.09.01
Benzo(a)pyrene	RB	8270C	05.02.01	05.09.01
Indeno(1,2,3-cd)pyrene	RB	8270C	05.02.01	05.09.01
Dibenzo(a,h)anthracene	RB	8270C	05.02.01	05.09.01
Benzo(g,h,i)perylene	RB	8270C	05.02.01	05.09.01
2-Chlorophenol	RB	8270C	05.02.01	05.09.01
Phenol	RB	8270C	05.02.01	05.09.01
2,4-Dimethylphenol	RB	8270C	05.02.01	05.09.01
Pentachlorophenol	RB	8270C	05.02.01	05.09.01
2-Methylphenol (o-Cresol)	RB	8270C	05.02.01	05.09.01
2-Methylnaphthalene	RB	8270C	05.02.01	05.09.01
Dibenzofuran	RB	8270C	05.02.01	05.09.01
Carbazole	RB	8270C	05.02.01	05.09.01
3-Methylphenol/4-Methylphenol (m&p-Cresol)	RB	8270C	05.02.01	05.09.01
Tetrachlorophenols	RB	8270C	05.02.01	05.09.01
% Lipids	SR	OB 10/90	---	05.02.01
Arsenic (6010)	CK	6010	---	05.03.01

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Project: WILMINGTON
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Page 12

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC FOR BIOLOGICAL TISSUE	DATE/ TIME SAMPLED
12510-13	Analyst Initials	
12510-14	EPA Method Numbers	
12510-15	Dates Extracted	
12510-16	Dates Analyzed	

PARAMETER	12510-13	12510-14	12510-15	12510-16
Chromium (6010)	CK	6010	---	05.03.01
Copper (6010)	CK	6010	---	05.03.01

Methods: EPA SW-846 ND = Not Detected

Gloria D. Fulwood

Gloria D. Fulwood, Project Manager

Final Page Of Report

Serial Number 022172

SEVERN TRENT SERVICES

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

STL Savannah

STL Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.stl-inc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	PAGE	OF
SWP-Wilmington		NC	1	1
STL (LAB) PROJECT MANAGER: G. Fulwood	P.O. NUMBER	CONTRACT NO.	STANDARD REPORT DELIVERY ☒	
CLIENT (SITE) PM: Southern Wood Piedmont	CLIENT PHONE: 864-599-1070	CLIENT FAX: 599-1087	DATE DUE	
CLIENT NAME: Bill Arrants	CLIENT E-MAIL: william.arrants@rayonier.com		EXPEDITED REPORT DELIVERY (SURCHARGE) ○	
CLIENT ADDRESS: P.O. Box 5447 Spartanburg, SC 29304			DATE DUE	
COMPANY CONTRACTING THIS WORK (if applicable): Schnabel Engineering - Greg Kurtz			NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1	

PRESERVATIVE: ICE

REQUIRED ANALYSIS: SVOC, Total Lipids; As, Cr, Cu

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION (GBK 4/20/01)	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID: Fish	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
4/24/01	10:30	Bio-13A SWP-Log # 17777	G		X			1	*Wilmington Site Specific List SVOC & metals Only. Total Lipids
		Bio-13B 17778	G						
		Bio-13C 17779	G						
		Bio-13E 17781 GBK 4/24/01 17780 GBK	G						
		Bio-13B-Dup -----	G						
		Bio-13E-Dup -----	G						*Hold and Greg Kurtz will call and instruct lab on what sample to analyze and provide SWP Log#'s
		Bio-14-Comp 17782	C						

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Greg B. Kurtz	4/24/01	18:30			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
EMPTY CONTAINERS								

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY SEAL	CUSTODY SEAL NO.	LABORATORY REMARKS

CLIENT'S COPY

Serial Number UCC1 1C

SEVERN TRENT SERVICES

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

STL Savannah

STL Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.stl-inc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	MATRIX TYPE	REQUIRED ANALYSIS	PAGE 1 OF 1
SWP-Wilmington		NC			
STL (LAB) PROJECT MANAGER: G. Fulwood	P.O. NUMBER	CONTRACT NO.			STANDARD REPORT DELIVERY ☒
CLIENT (SITE) PM: Southern Wood Piedmont	CLIENT PHONE: 864-599-1070	CLIENT FAX: 599-1087			DATE DUE
CLIENT NAME: Bill Arrants	CLIENT E-MAIL: william.arrants@rayonier.com				EXPEDITED REPORT DELIVERY (SURCHARGE) ○
CLIENT ADDRESS: P.O. Box 5447 Spartanburg, SC 29304					DATE DUE
COMPANY CONTRACTING THIS WORK (if applicable): Schnabel Engineering - Greg Kuntz				PRESERVATIVE	NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	Ice	SVOC, Total Lipids AS, Cr, Cu	NUMBER OF CONTAINERS SUBMITTED	REMARKS
4/24/01	18:30	Bio-13A	G		X					1	*Wilmington Site
		Bio-13B	G								Specific List
		Bio-13C	G								SVOC & metals
		Bio-13E	G								Only. Total Lipids
		Bio-13B-Dup	G								
		Bio-13E-Dup	G								*Hold and Greg
		Bio-14-Comp	C								Kuntz will call
											and instruct lab
											on what samples
											to analyze
											and provide
											SWP Log#'s

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Greg B. Kuntz	4/24/01	18:30			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
EMPTY CONTAINERS								

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	STL SAVANNAH LOG NO.	LABORATORY REMARKS
J Bewaffard	4/25/01	10:00	YES ✓ NO ○		51125 10	

ORIGINAL – RETURN TO LABORATORY WITH SAMPLE(S)

FedEx. USA Airbill FedEx Tracking Number 824136805187

SNA41

Form I.D. No. 0215

Sender's Copy

1 From *Please print and press hard.*

Date 4/25/01 Sender's FedEx Account Number 2181-1829-1

Sender's Name Greg Kuntz Phone (803) 796-6240

Company SCHNABEL ENGINEERING ASSOC

Address 104 CORPORATE BLVD STE 420

Dept./Floor/Suite/Room

City WEST COLUMBIA State SC ZIP 29169

2 Your Internal Billing Reference First 24 characters will appear on invoice.

ORIGINAL

3 To

Recipient's Name Gloria Fulwood Phone 912 354-7858

Company Savannah Labs

Address 5102 LaRoche Avenue

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Savannah State GA ZIP 31404

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4a Express Package Service *Packages up to 150 lbs.* Delivery commitment may be later in some areas.

- [x] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

* FedEx Envelope/Letter Rate not available. Minimum charge: One-pound rate

4b Express Freight Service *Packages over 150 lbs.* Delivery commitment may be later in some areas.

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation: _____

5 Packaging * Declared value limit $500

- [ ] FedEx Envelope/Letter*
- [ ] FedEx Pak*
- [x] Other Pkg. — Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling — Include FedEx address in Section 3.

- [ ] SATURDAY Delivery — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] SUNDAY Delivery — Available for FedEx Priority Overnight to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available with FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [ ] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 _____ x _____ kg
- [ ] Cargo Aircraft Only

Dangerous Goods cannot be shipped in FedEx packaging.

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [x] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

FedEx Acct. No. Credit Card No. Exp. Date

Total Packages	Total Weight	Total Declared Value†
1	30	$ .00

†Our liability is limited to $100 unless you declare a higher value. See back for details.

FedEx Use Only

8 Release Signature *Sign to authorize delivery without obtaining signature.*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

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SEVERN TRENT SERVICES
STL Savannah
5102 LaRoche Avenue • Savannah, GA 31404 • Tel: 912 354 7858 • Fax: 912 352 0165 • www.stl-inc.com

LOG NO: S1-12537
Received: 26 APR 01
Reported: 15 MAY 01

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 161810515

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , BIOLOGICAL TISSUE SAMPLES	DATE/ TIME SAMPLED
12537-1	BIO-11A (#17783)	04-25-01/11:00
12537-2	BIO-11B (#17784)	04-25-01/11:00
12537-3	BIO-11C (#17785)	04-25-01/11:00
12537-4	BIO-11C-DUP	04-25-01/11:00
12537-5	BIO-15-COMP (#17786)	04-25-01/11:00

PARAMETER	12537-1	12537-2	12537-3	12537-4	12537-5
Acid & Base Neutral Extractables (8270)					
Naphthalene, mg/kg	ND	ND	ND	ND	ND
2-Chloronaphthalene, mg/kg	ND	ND	ND	ND	ND
Acenaphthylene, mg/kg	ND	ND	ND	ND	ND
Acenaphthene, mg/kg	ND	ND	ND	ND	ND
Fluorene, mg/kg	ND	ND	ND	ND	ND
Hexachlorobenzene, mg/kg	ND	ND	ND	ND	ND
Phenanthrene, mg/kg	ND	ND	ND	ND	ND
Anthracene, mg/kg	ND	ND	ND	ND	ND
Di-n-butylphthalate, mg/kg	ND	ND	ND	ND	ND
Fluoranthene, mg/kg	ND	ND	ND	ND	ND
Pyrene, mg/kg	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate, mg/kg	ND	ND	ND	ND	ND
Chrysene, mg/kg	ND	ND	ND	ND	ND
Benzo(a)anthracene, mg/kg	ND	ND	ND	ND	ND

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12537-4	BIO-11C-DUP	04-25-01/11:00
12537-5	BIO-15-COMP (#17786)	04-25-01/11:00

PARAMETER	12537-1	12537-2	12537-3	12537-4	12537-5
Benzo(b)fluoranthene, mg/kg	ND	ND	ND	ND	ND
Benzo(k)fluoranthene, mg/kg	ND	ND	ND	ND	ND
Benzo(a)pyrene, mg/kg	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene, mg/kg	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene, mg/kg	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene, mg/kg	ND	ND	ND	ND	ND
2-Chlorophenol, mg/kg	ND	ND	ND	ND	ND
Phenol, mg/kg	ND	ND	ND	ND	ND
2,4-Dimethylphenol, mg/kg	ND	ND	ND	ND	ND
Pentachlorophenol, mg/kg	ND	ND	ND	ND	ND
2-Methylphenol (o-Cresol), mg/kg	ND	ND	ND	ND	ND
2-Methylnaphthalene, mg/kg	ND	ND	ND	ND	ND
Dibenzofuran, mg/kg	ND	ND	ND	ND	ND
Carbazole, mg/kg	ND	ND	ND	ND	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/kg	ND	ND	ND	ND	ND
Tetrachlorophenols, mg/kg	ND	ND	ND	ND	ND
Dilution factor	1	1	1	1	1

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12537-4	BIO-11C-DUP	04-25-01/11:00
12537-5	BIO-15-COMP (#17786)	04-25-01/11:00

PARAMETER	12537-1	12537-2	12537-3	12537-4	12537-5
% Lipids, %	1.1	1.9	2.7	3.1	2.8
Arsenic (6010), mg/kg	ND	ND	ND	ND	ND
Chromium (6010), mg/kg	ND	ND	ND	ND	ND
Copper (6010), mg/kg	ND	ND	ND	ND	ND

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , BIOLOGICAL TISSUE SAMPLES	DATE/ TIME SAMPLED
12537-6	BIO-15-COMP-DUP	04-25-01/11:00

PARAMETER	12537-6
Acid & Base Neutral Extractables (8270)	
Naphthalene, mg/kg	ND
2-Chloronaphthalene, mg/kg	ND
Acenaphthylene, mg/kg	ND
Acenaphthene, mg/kg	ND
Fluorene, mg/kg	ND
Hexachlorobenzene, mg/kg	ND
Phenanthrene, mg/kg	ND
Anthracene, mg/kg	ND
Di-n-butylphthalate, mg/kg	ND
Fluoranthene, mg/kg	ND
Pyrene, mg/kg	ND
bis(2-Ethylhexyl)phthalate, mg/kg	ND
Chrysene, mg/kg	ND
Benzo(a)anthracene, mg/kg	ND
Benzo(b)fluoranthene, mg/kg	ND
Benzo(k)fluoranthene, mg/kg	ND
Benzo(a)pyrene, mg/kg	ND
Indeno(1,2,3-cd)pyrene, mg/kg	ND

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , BIOLOGICAL TISSUE SAMPLES	DATE/ TIME SAMPLED
12537-6	BIO-15-COMP-DUP	04-25-01/11:00

PARAMETER	12537-6
Dibenzo(a,h)anthracene, mg/kg	ND
Benzo(g,h,i)perylene, mg/kg	ND
2-Chlorophenol, mg/kg	ND
Phenol, mg/kg	ND
2,4-Dimethylphenol, mg/kg	ND
Pentachlorophenol, mg/kg	ND
2-Methylphenol (o-Cresol), mg/kg	ND
2-Methylnaphthalene, mg/kg	ND
Dibenzofuran, mg/kg	ND
Carbazole, mg/kg	ND
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/kg	ND
Tetrachlorophenols, mg/kg	ND
Dilution factor	1
% Lipids, %	3.4
Arsenic (6010), mg/kg	ND
Chromium (6010), mg/kg	ND
Copper (6010), mg/kg	2.0

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , BIOLOGICAL TISSUE SAMPLES	DATE/ TIME SAMPLED
12537-6	BIO-15-COMP-DUP	04-25-01/11:00

PARAMETER	12537-6				

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Sampled By: Client
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC FOR BIOLOGICAL TISSUE	DATE/ TIME SAMPLED
12537-7	Method Blank	
12537-8	Detection Limit	
12537-9	Method Detection Limit (MDL)	
12537-10	Accuracy (mean % recovery)	
12537-11	Precision (% RPD)	

PARAMETER	12537-7	12537-8	12537-9	12537-10	12537-11
Acid & Base Neutral Extractables (8270)					
Naphthalene; mg/kg	ND	0.99	0.011	48 %	2 %
2-Chloronaphthalene, mg/kg	ND	0.99	0.011	---	---
Acenaphthylene, mg/kg	ND	0.99	0.013	65 %	12 %
Acenaphthene, mg/kg	ND	0.99	0.013	61 %	13 %
Fluorene, mg/kg	ND	0.99	0.012	62 %	16 %
Hexachlorobenzene, mg/kg	ND	0.99	0.010	---	---
Phenanthrene, mg/kg	ND	0.99	0.012	67 %	12 %
Anthracene, mg/kg	ND	0.99	0.012	66 %	16 %
Di-n-butylphthalate, mg/kg	ND	0.99	0.015	---	---
Fluoranthene, mg/kg	ND	0.99	0.011	60 %	22 %
Pyrene, mg/kg	ND	0.99	0.011	69 %	9 %
bis(2-Ethylhexyl)phthalate, mg/kg	ND	0.99	0.046	---	---
Chrysene, mg/kg	ND	0.99	0.012	68 %	16 %
Benzo(a)anthracene, mg/kg	ND	0.99	0.0096	67 %	18 %

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12537-8	Detection Limit	
12537-9	Method Detection Limit (MDL)	
12537-10	Accuracy (mean % recovery)	
12537-11	Precision (% RPD)	

PARAMETER	12537-7	12537-8	12537-9	12537-10	12537-11
Benzo(b)fluoranthene, mg/kg	ND	0.99	0.017	62 %	13 %
Benzo(k)fluoranthene, mg/kg	ND	0.99	0.013	60 %	13 %
Benzo(a)pyrene, mg/kg	ND	0.99	0.011	62 %	14 %
Indeno(1,2,3-cd)pyrene, mg/kg	ND	0.99	0.020	68 %	19 %
Dibenzo(a,h)anthracene, mg/kg	ND	0.99	0.015	62 %	13 %
Benzo(g,h,i)perylene, mg/kg	ND	0.99	0.019	---	---
2-Chlorophenol, mg/kg	ND	0.99	0.011	42 %	12 %
Phenol, mg/kg	ND	0.99	0.019	42 %	0 %
2,4-Dimethylphenol, mg/kg	ND	0.99	0.010	61 %	10 %
Pentachlorophenol, mg/kg	ND	5.1	0.028	68 %	31 %
2-Methylphenol (o-Cresol), mg/kg	ND	0.99	0.013	51 %	4 %
2-Methylnaphthalene, mg/kg	ND	0.99	0.0092	---	---
Dibenzofuran, mg/kg	ND	0.99	0.012	---	---
Carbazole, mg/kg	ND	0.99	0.022	68 %	24 %
3-Methylphenol/4-Methylphenol (m&p-Cresol), mg/kg	ND	0.99	0.061	48 %	10 %
Tetrachlorophenols, mg/kg	ND	0.99	0.025	56 %	14 %
Dilution factor	1	1	---	---	---

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12537-7	Method Blank	
12537-8	Detection Limit	
12537-9	Method Detection Limit (MDL)	
12537-10	Accuracy (mean % recovery)	
12537-11	Precision (% RPD)	

PARAMETER	12537-7	12537-8	12537-9	12537-10	12537-11
% Lipids, %	ND	---	---	8.1 %	2.0 %
Arsenic (6010), mg/kg	ND	1.0	0.45	96 %	4.7 %
Chromium (6010), mg/kg	ND	1.0	0.17	102 %	4.9 %
Copper (6010), mg/kg	ND	2.0	0.72	102 %	4.8 %

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC FOR BIOLOGICAL TISSUE	DATE/ TIME SAMPLED
12537-12	Analyst Initials	
12537-13	EPA Method Numbers	
12537-14	Dates Extracted	
12537-15	Dates Analyzed	

PARAMETER	12537-12	12537-13	12537-14	12537-15
Acid & Base Neutral Extractables (8270)				
Naphthalene	RB	8270C	05.02.01	05.09.01
2-Chloronaphthalene	RB	8270C	05.02.01	05.09.01
Acenaphthylene	RB	8270C	05.02.01	05.09.01
Acenaphthene	RB	8270C	05.02.01	05.09.01
Fluorene	RB	8270C	05.02.01	05.09.01
Hexachlorobenzene	RB	8270C	05.02.01	05.09.01
Phenanthrene	RB	8270C	05.02.01	05.09.01
Anthracene	RB	8270C	05.02.01	05.09.01
Di-n-butylphthalate	RB	8270C	05.02.01	05.09.01
Fluoranthene	RB	8270C	05.02.01	05.09.01
Pyrene	RB	8270C	05.02.01	05.09.01
bis(2-Ethylhexyl)phthalate	RB	8270C	05.02.01	05.09.01
Chrysene	RB	8270C	05.02.01	05.09.01
Benzo(a)anthracene	RB	8270C	05.02.01	05.09.01
Benzo(b)fluoranthene	RB	8270C	05.02.01	05.09.01

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12537-13	EPA Method Numbers	
12537-14	Dates Extracted	
12537-15	Dates Analyzed	

PARAMETER	12537-12	12537-13	12537-14	12537-15
Benzo(k)fluoranthene	RB	8270C	05.02.01	05.09.01
Benzo(a)pyrene	RB	8270C	05.02.01	05.09.01
Indeno(1,2,3-cd)pyrene	RB	8270C	05.02.01	05.09.01
Dibenzo(a,h)anthracene	RB	8270C	05.02.01	05.09.01
Benzo(g,h,i)perylene	RB	8270C	05.02.01	05.09.01
2-Chlorophenol	RB	8270C	05.02.01	05.09.01
Phenol	RB	8270C	05.02.01	05.09.01
2,4-Dimethylphenol	RB	8270C	05.02.01	05.09.01
Pentachlorophenol	RB	8270C	05.02.01	05.09.01
2-Methylphenol (o-Cresol)	RB	8270C	05.02.01	05.09.01
2-Methylnaphthalene	RB	8270C	05.02.01	05.09.01
Dibenzofuran	RB	8270C	05.02.01	05.09.01
Carbazole	RB	8270C	05.02.01	05.09.01
3-Methylphenol/4-Methylphenol (m&p-Cresol)	RB	8270C	05.02.01	05.09.01
Tetrachlorophenols	RB	8270C	05.02.01	05.09.01
% Lipids	SR	OB 10/90	---	05.02.01
Arsenic (6010)	CK	6010	---	05.03.01

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12537-12	Analyst Initials	
12537-13	EPA Method Numbers	
12537-14	Dates Extracted	
12537-15	Dates Analyzed	

PARAMETER	12537-12	12537-13	12537-14	12537-15
Chromium (6010)	CK	6010	---	05.03.01
Copper (6010)	CK	6010	---	05.03.01

Methods: EPA SW-846 ND = Not Detected

Gloria D. Fulwood

Gloria D. Fulwood, Project Manager

Final Page Of Report

Serial Number J22155

SEVERN TRENT SERVICES

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

STL Savannah

STL Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.stl-inc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: SWP-Wilmington	PROJECT NO.	PROJECT LOCATION (STATE): NC	PAGE 1 OF 1
STL (LAB) PROJECT MANAGER: G. Fulwood	P.O. NUMBER	CONTRACT NO.	STANDARD REPORT DELIVERY ☒
CLIENT (SITE) PM: Southern Wood Piedmont	CLIENT PHONE: 864-599-1070	CLIENT FAX: 599-1087	DATE DUE
CLIENT NAME: Bill Arrants	CLIENT E-MAIL: william.armandi@rayonier.com		EXPEDITED REPORT DELIVERY (SURCHARGE) ○
CLIENT ADDRESS: P.O. Box 5447 Spartanburg, SC 29304			DATE DUE
COMPANY CONTRACTING THIS WORK (if applicable): Schnabel Engineering - Greg Kuntz			NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS: SVOC, Total Lipids, Cr, Cu, As

PRESERVATIVE: Ice

NUMBER OF CONTAINERS SUBMITTED

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION GBK 4/27/01	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID	SVOC, Total Lipids, Cr, Cu, As	REMARKS
4/25/01	11:00	Bio-11A SWP Log# 17783	G		X			1	Wilmington Site
		Bio-11B 17784	G						Specific Semi-vol
		Bio-11C 17785	C						and metals only
		Bio-11C-Dup -----	C						
		Bio-15-Comp 17786	C						*Greg Kuntz will
		Bio-15-Comp-Dup -----	C						call and instruct
									on what samples
									to analyze and
									provide SWP
									log numbers.

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY CONTAINERS			Sheena B. Kuntz	4/25/01	18:00			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
EMPTY CONTAINERS								

RECEIVED FOR LABORATORY BY:	DATE	TIME	CUSTODY SEAL NO.	CUSTODY SEAL NO.	STL SAMPLE NUMBER	LABORATORY REMARKS

CLIENT'S COPY

RECEIVED
MAY 21 2001

WPH
↓
File
G. Kuntz

PARADIGM ANALYTICAL LABORATORIES, INC.
2627 Northchase Parkway S.E.
Wilmington, North Carolina 28405
(910) 350-1903
Fax (910) 350-1557

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SOUTHERN WOOD PIEDMONT

Wednesday, May 16, 2001

Ms. Sandra Watson
Southern Wood Piedmont
591 Springfield Road
Spartanburg, SC 29304

Dear Ms. Watson:

Enclosed are the final results for the samples received by Paradigm Analytical Laboratories, Inc. on April 23,24, and 25, 2001 under your **Project Name "SWP-Wilmington"**. The samples were analyzed by Method **1613** following Paradigm's Standard Operating Procedures. Please see Page 2 of this report for the case narrative.

A summary data package has been provided.

No. of Samples Received: **20 Tissues** – Fish Samples

Your Project Number: **Not Provided**
PAL Project No.: **G440-12**

We appreciate your business and look forward to working with you again. Please contact me if you have questions or need additional technical support.

Sincerely,

Christopher K. Cornwell
Assistant Director

Case Narrative
Paradigm Project G440-12

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Client Project No.:	Not Provided
Client Project Name:	SWP-Wilmington
No. of Samples Received:	22 Tissues
No. of Samples Analyzed:	20
Method:	1613
No. of LMBs:	2
No. of OPRs:	2

- Data meet QA/QC requirements.

W.M. Larkins
Technical Director

May 16, 2001

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Table 1. List of Qualifiers

A	Amount detected is less than the Calibration Limit
B	Analyte was detected in the LMB at a level above the RL or EDL.
E	Amount detected is over the Method Calibration Limit
DPE	Denotes the presence of possible polychlorinated diphenylethers
EDL	"Estimated Detection Limit"
EMPC	"Estimated Maximum Possible Concentration"
ppt	Parts-per-trillion (pg/g; ng/L)
Q	Indicates the presence of quantitative interferences. They generally result in an underestimation of the affected total homologue groups.
R	The ion ratio is outside method limits.
S	The ion response saturated the detector: the result is a low estimate of the amount present in the sample.
V	Recovery is lower than 40%. The data has been validated based on a favorable signal-to-noise and detection limit.
#	Outside recovery limits
*	See cover letter

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Table 2: Toxic Equivalency Factors

Analyte	World Health Organization	International-89	MADEP
2,3,7,8-TCDD	1	1	1
1,2,3,7,8-PeCDD	1	0.5	0.5
1,2,3,4,7,8-HxCDD	0.1	0.1	0.1
1,2,3,6,7,8-HxCDD	0.1	0.1	0.1
1,2,3,7,8,9-HxCDD	0.1	0.1	0.1
1,2,3,4,6,7,8-HpCDD	0.01	0.01	0.1
OCDD	0.0001	0.001	0.001
2,3,7,8-TCDF	0.1	0.1	0.1
1,2,3,7,8-PeCDF	0.05	0.05	0.5
2,3,4,7,8-PeCDF	0.5	0.5	0.5
1,2,3,4,7,8-HxCDF	0.1	0.1	0.1
1,2,3,6,7,8-HxCDF	0.1	0.1	0.1
2,3,4,6,7,8-HxCDF	0.1	0.1	0.1
1,2,3,7,8,9-HxCDF	0.1	0.1	0.1
1,2,3,4,6,7,8-HpCDF	0.01	0.01	0.1
1,2,3,4,7,8,9-HpCDF	0.01	0.01	0.1
OCDF	0.0001	0.001	0.001

Method 1613

Bio-16-comp, 17773

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.230				
1,2,3,7,8-PeCDD	0.130			33:34	1.35	A
1,2,3,4,7,8-HxCDD	ND	0.229				
1,2,3,6,7,8-HxCDD	ND	0.229				
1,2,3,7,8,9-HxCDD	ND	0.210				
1,2,3,4,6,7,8-HpCDD	1.20			39:09	1.14	A
OCDD	9.76			43:01	0.89	
2,3,7,8--TCDF	0.492			29:20	0.72	
1,2,3,7,8-PeCDF	ND	0.106				
2,3,4,7,8-PeCDF	0.190			33:22	1.49	A
1,2,3,4,7,8-HxCDF	ND	0.139				
1,2,3,6,7,8-HxCDF	ND	0.136				
2,3,4,6,7,8-HxCDF	ND	0.173				
1,2,3,7,8,9-HxCDF	ND	0.199				
1,2,3,4,6,7,8-HpCDF	0.349			38:00	1.16	A
1,2,3,4,7,8,9-HpCDF	ND	0.213				
OCDF	ND	0.478				
Total TCDDs	ND	0.230				
Total PeCDDs	0.130					
Total HxCDDs	ND	0.610	0.221			
Total HpCDDs	2.63					
Total TCDFs	0.492					
Total PeCDFs	0.368					
Total HxCDFs	0.202		0.364			
Total HpCDFs	0.674					
ITEF TEQ (ND=0)	0.234		0.234			
ITEF TEQ (ND=½)	0.419		0.419			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	Bio-16-comp		

Laboratory Information

Project ID:	G440-12		
Sample ID:	18987		
Collection Date/Time:	23-Apr-01	11:30	
Receipt Date:	24-Apr-01		
Extraction Date:	03-May-01		
Analysis Date:	09-May-01		

Sample Information

Matrix:	Tissue	
Weight / Volume:	10.32	Grams
Solids / Lipids:	1.07	%
Original pH :	NA	
Batch ID:	WG5402	
Filename:	a08may01a_2-3	
Retchk:	a08may01a-15	
Begin ConCal:	a08may01a-15	
Initial Cal:	m1613-052699m	

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Method 1613

Bio-16-comp

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.58	78.8	30:15	0.83	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.56	78.1	33:33	1.5	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.78	89.1	36:01	1.32	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.13	106.3	36:06	1.18	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.39	69.5	39:08	1.07	
$^{13}C_{12}$-OCDD	4	2.36	59.1	43:00	0.8	
$^{13}C_{12}$-2,3,7,8-TCDF	2	1.65	82.3	29:18	0.82	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.84	92.1	32:46	1.67	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	1.72	86.0	33:22	1.6	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.88	94.2	35:20	0.51	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.05	102.7	35:26	0.51	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.78	89.2	35:54	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	1.97	98.4	36:36	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.77	88.5	37:59	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	1.73	86.3	39:45	0.45	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.58	73.0	30:16		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:32	0.82	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:54	0.51	

Client Information

Project Name: SWP-Wilmington
Sample ID: Bio-16-comp

Laboratory Information

Project ID: G440-12
Sample ID: 18987

Collection Date/Time: 23-Apr-01 11:30
Receipt Date: 24-Apr-01
Extraction Date: 03-May-01
Analysis Date: 09-May-01

Sample Information

Matrix: Tissue
Weight / Volume: 10.32 Grams
Solids / Lipids: 1.07 %
Original pH : NA
Batch ID: WG5402

Filename: a08may01a_2-3
Retchk: a08may01a-15
Begin ConCal: a08may01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 15MAY01

Reviewed by: [illegible]
Date: 5/15/01

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Method 1613

Bio-12A -17771

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.257				
1,2,3,7,8-PeCDD	0.286			33:34	1.32	A
1,2,3,4,7,8-HxCDD	ND	0.207				
1,2,3,6,7,8-HxCDD	0.594			36:06	1.36	A
1,2,3,7,8,9-HxCDD	ND	0.193				
1,2,3,4,6,7,8-HpCDD	1.97			39:09	0.99	A
OCDD	6.21			43:01	0.79	
2,3,7,8--TCDF	ND	0.216				
1,2,3,7,8-PeCDF	0.118			32:47	1.63	A
2,3,4,7,8-PeCDF	0.214			33:23	1.67	A
1,2,3,4,7,8-HxCDF	0.167			35:21	1.37	A
1,2,3,6,7,8-HxCDF	0.173			35:26	1.19	A
2,3,4,6,7,8-HxCDF	ND	0.149				
1,2,3,7,8,9-HxCDF	ND	0.156				
1,2,3,4,6,7,8-HpCDF	0.353			37:59	1.09	A
1,2,3,4,7,8,9-HpCDF	ND	0.247				
OCDF	ND	0.489				
Total TCDDs	ND	0.257				
Total PeCDDs	0.286					
Total HxCDDs	0.594					
Total HpCDDs	1.97		3.64			
Total TCDFs	ND	0.216				
Total PeCDFs	0.331					
Total HxCDFs	1.15					
Total HpCDFs	0.353					
ITEF TEQ (ND=0)	0.379		0.379			
ITEF TEQ (ND=½)	0.555		0.555			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	Bio-12A		

Laboratory Information

Project ID:	G440-12		
Sample ID:	18988		
Collection Date/Time:	23-Apr-01	11:30	
Receipt Date:	24-Apr-01		
Extraction Date:	03-May-01		
Analysis Date:	09-May-01		

Sample Information

Matrix:	Tissue	
Weight / Volume:	10.20	Grams
Solids / Lipids:	1.86	%
Original pH :	NA	
Batch ID:	WG5402	
Filename:	a08may01a_2-4	
Retchk:	a08may01a-15	
Begin ConCal:	a08may01a-15	
Initial Cal:	m1613-052699m	

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Method 1613

Bio-12A

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.38	69.0	30:14	0.84	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.48	73.8	33:33	1.52	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.72	85.8	36:01	1.29	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	1.95	97.3	36:06	1.27	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.41	70.3	39:08	1.03	
$^{13}C_{12}$-OCDD	4	2.37	59.3	43:00	0.82	
$^{13}C_{12}$-2,3,7,8-TCDF	2	1.11	55.7	29:18	0.82	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.72	86.0	32:46	1.63	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	1.25	62.4	33:22	1.6	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.73	86.7	35:20	0.52	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.92	95.9	35:26	0.52	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.64	81.8	35:53	0.53	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.00	99.9	36:36	0.53	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.72	85.8	37:59	0.47	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	1.70	85.1	39:45	0.47	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.52	64.5	30:15		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:32	0.84	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:53	0.53	

Client Information

Project Name: SWP-Wilmington
Sample ID: Bio-12A

Laboratory Information

Project ID: G440-12
Sample ID: 18988

Collection Date/Time: 23-Apr-01 11:30
Receipt Date: 24-Apr-01
Extraction Date: 03-May-01
Analysis Date: 09-May-01

Sample Information

Matrix: Tissue
Weight / Volume: 10.20 Grams
Solids / Lipids: 1.86 %
Original pH : NA
Batch ID: WG5402

Filename: a08may01a_2-4
Retchk: a08may01a-15
Begin ConCal: a08may01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 15May01

Reviewed by: [illegible]
Date: [illegible]

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Method 1613

Bio-12B - 17772

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.379				
1,2,3,7,8-PeCDD	ND	0.303				
1,2,3,4,7,8-HxCDD	ND	0.305				
1,2,3,6,7,8-HxCDD	0.399			36:07	1.21	A
1,2,3,7,8,9-HxCDD	0.357			36:20	1.31	A
1,2,3,4,6,7,8-HpCDD	8.73			39:09	1.07	
OCDD	103			43:01	0.83	
2,3,7,8--TCDF	0.448			29:19	0.83	A
1,2,3,7,8-PeCDF	ND	0.144				
2,3,4,7,8-PeCDF	0.570			33:23	1.68	A
1,2,3,4,7,8-HxCDF	0.312			35:21	1.29	A
1,2,3,6,7,8-HxCDF	0.297			35:27	1.06	A
2,3,4,6,7,8-HxCDF	EMPC	0.242	0.370	35:54	1.43	
1,2,3,7,8,9-HxCDF	ND	0.216				
1,2,3,4,6,7,8-HpCDF	3.30			37:59	1.15	
1,2,3,4,7,8,9-HpCDF	ND	0.452				
OCDF	4.94			43:18	0.89	
Total TCDDs	ND	0.379				
Total PeCDDs	ND	0.303				
Total HxCDDs	2.04		3.43			
Total HpCDDs	24.1					
Total TCDFs	0.448					
Total PeCDFs	1.46		2.57			
Total HxCDFs	4.03		4.40			
Total HpCDFs	6.15					
ITEF TEQ (ND=0)	0.695		0.732			
ITEF TEQ (ND=½)	1.00		1.03			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	Bio-12B		

Laboratory Information

Project ID:	G440-12		
Sample ID:	18989		
Collection Date/Time:	23-Apr-01	11:30	
Receipt Date:	24-Apr-01		
Extraction Date:	03-May-01		
Analysis Date:	09-May-01		

Sample Information

Matrix:	Tissue	
Weight / Volume:	10.32	Grams
Solids / Lipids:	2.33	%
Original pH :	NA	
Batch ID:	WG5402	
Filename:	a08may01a_2-5	
Retchk:	a08may01a-15	
Begin ConCal:	a08may01a-15	
Initial Cal:	m1613-052699m	

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Method 1613

Bio-12B

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	0.99	49.7	30:14	0.83	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.05	52.4	33:33	1.49	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.23	61.5	36:01	1.34	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	1.44	71.9	36:06	1.21	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.17	58.5	39:08	1.09	
$^{13}C_{12}$-OCDD	4	2.11	52.8	43:00	0.8	
$^{13}C_{12}$-2,3,7,8-TCDF	2	0.79	39.7	29:18	0.83	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.28	63.8	32:46	1.59	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	0.83	41.5	33:22	1.59	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.30	65.1	35:20	0.51	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.41	70.6	35:26	0.52	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.18	58.8	35:53	0.52	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	1.69	84.6	36:36	0.54	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.39	69.6	37:59	0.47	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	1.40	70.2	39:45	0.48	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.37	46.0	30:15		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:32	0.82	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:53	0.52	

Client Information

Project Name: SWP-Wilmington
Sample ID: Bio-12B

Laboratory Information

Project ID: G440-12
Sample ID: 18989

Collection Date/Time: 23-Apr-01 11:30
Receipt Date: 24-Apr-01
Extraction Date: 03-May-01
Analysis Date: 09-May-01

Sample Information

Matrix: Tissue
Weight / Volume: 10.32 Grams
Solids / Lipids: 2.33 %
Original pH : NA
Batch ID: WG5402

Filename: a08may01a_2-5
Retchk: a08may01a-15
Begin ConCal: a08may01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 15MAY01

Reviewed by: [illegible]
Date: 5/15/01

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Method 1613

Bio-10B -17714

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.421				
1,2,3,7,8-PeCDD	ND	0.204				
1,2,3,4,7,8-HxCDD	ND	0.287				
1,2,3,6,7,8-HxCDD	ND	0.285				
1,2,3,7,8,9-HxCDD	ND	0.263				
1,2,3,4,6,7,8-HpCDD	ND	0.526				
OCDD	2.77			43:01	0.91	A
2,3,7,8--TCDF	0.483			29:20	0.76	
1,2,3,7,8-PeCDF	ND	0.121				
2,3,4,7,8-PeCDF	ND	0.182				
1,2,3,4,7,8-HxCDF	ND	0.137				
1,2,3,6,7,8-HxCDF	ND	0.134				
2,3,4,6,7,8-HxCDF	ND	0.181				
1,2,3,7,8,9-HxCDF	ND	0.151				
1,2,3,4,6,7,8-HpCDF	ND	0.257				
1,2,3,4,7,8,9-HpCDF	ND	0.383				
OCDF	ND	0.557				
Total TCDDs	ND	0.421				
Total PeCDDs	ND	0.354				
Total HxCDDs	ND	0.421				
Total HpCDDs	0.545					
Total TCDFs	0.483					
Total PeCDFs	ND	0.144				
Total HxCDFs	ND	0.150				
Total HpCDFs	ND	0.314				
ITEF TEQ (ND=0)	0.0511		0.0511			
ITEF TEQ (ND=½)	0.439		0.439			

Client Information

Project Name: SWP-Wilmington
Sample ID: Bio-10B

Laboratory Information

Project ID: G440-12
Sample ID: 18991

Collection Date/Time: 23-Apr-01 14:00
Receipt Date: 24-Apr-01
Extraction Date: 03-May-01
Analysis Date: 09-May-01

Sample Information

Matrix: Tissue
Weight / Volume: 11.31 Grams
Solids / Lipids: 2.03 %
Original pH : NA
Batch ID: WG5402

Filename: a08may01a_2-6
Retchk: a08may01a-15
Begin ConCal: a08may01a-15

Initial Cal: m1613-052699m

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Method 1613

Bio-10B

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	0.94	47.1	30:14	0.82	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	0.96	48.2	33:33	1.49	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.17	58.4	36:01	1.27	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	1.31	65.7	36:06	1.25	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.09	54.3	39:08	1.04	
$^{13}C_{12}$-OCDD	4	2.00	50.1	43:00	0.79	
$^{13}C_{12}$-2,3,7,8-TCDF	2	0.74	37.2	29:18	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.19	59.5	32:46	1.61	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	0.78	38.9	33:22	1.58	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.20	59.9	35:20	0.50	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.31	65.3	35:26	0.52	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.07	53.3	35:53	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	1.60	79.8	36:36	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.32	65.8	37:59	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	1.33	66.6	39:45	0.46	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.37	46.4	30:15		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:31	0.84	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:53	0.51	

Client Information

Project Name: SWP-Wilmington
Sample ID: Bio-10B

Laboratory Information

Project ID: G440-12
Sample ID: 18991

Collection Date/Time: 23-Apr-01 14:00
Receipt Date: 24-Apr-01
Extraction Date: 03-May-01
Analysis Date: 09-May-01

Sample Information

Matrix: Tissue
Weight / Volume: 11.31 Grams
Solids / Lipids: 2.03 %
Original pH : NA
Batch ID: WG5402

Filename: a08may01a_2-6
Retchk: a08may01a-15
Begin ConCal: a08may01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 15May01

Reviewed by: [illegible]
Date: 5/14/01

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SOUTHERN WOOD PIEDMONT

Method 1613

Bio-10D - 17775

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.281				
1,2,3,7,8-PeCDD	0.214			33:33	1.38	A
1,2,3,4,7,8-HxCDD	ND	0.203				
1,2,3,6,7,8-HxCDD	ND	0.200				
1,2,3,7,8,9-HxCDD	ND	0.184				
1,2,3,4,6,7,8-HpCDD	0.763			39:09	1.01	A
OCDD	2.69			43:02	0.76	A
2,3,7,8--TCDF	0.203			29:19	0.73	A
1,2,3,7,8-PeCDF	EMPC	0.0966	0.0903	32:47	1.21	
2,3,4,7,8-PeCDF	0.229			33:22	1.64	A
1,2,3,4,7,8-HxCDF	EMPC	0.0887	0.109	35:21	1.03	
1,2,3,6,7,8-HxCDF	ND	0.0907				
2,3,4,6,7,8-HxCDF	ND	0.109				
1,2,3,7,8,9-HxCDF	ND	0.131				
1,2,3,4,6,7,8-HpCDF	0.304			37:59	1.00	A
1,2,3,4,7,8,9-HpCDF	ND	0.220				
OCDF	ND	0.502				
Total TCDDs	ND	0.281				
Total PeCDDs	0.214					
Total HxCDDs	ND	0.453				
Total HpCDDs	0.763		1.33			
Total TCDFs	0.203					
Total PeCDFs	0.229		0.319			
Total HxCDFs	ND	0.104	0.109			
Total HpCDFs	0.304					
ITEF TEQ (ND=0)	0.255		0.271			
ITEF TEQ (ND=½)	0.450		0.458			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	Bio-10D		

Laboratory Information

Project ID:	G440-12		
Sample ID:	18993		
Collection Date/Time:	23-Apr-01	14:00	
Receipt Date:	24-Apr-01		
Extraction Date:	03-May-01		
Analysis Date:	09-May-01		

Sample Information

Matrix:	Tissue	
Weight / Volume:	10.85	Grams
Solids / Lipids:	0.460	%
Original pH :	NA	
Batch ID:	WG5402	
Filename:	a08may01a_2-7	
Retchk:	a08may01a-15	
Begin ConCal:	a08may01a-15	
Initial Cal:	m1613-052699m	

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SOUTHERN WOOD PIEDMONT

Method 1613

Bio-10D

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.61	80.3	30:14	0.83	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.60	79.9	33:33	1.51	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.68	84.0	36:01	1.31	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.07	103.6	36:06	1.26	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.35	67.3	39:08	1.08	
$^{13}C_{12}$-OCDD	4	2.25	56.3	43:00	0.79	
$^{13}C_{12}$-2,3,7,8-TCDF	2	1.59	79.7	29:18	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.82	91.2	32:46	1.6	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	1.64	82.0	33:21	1.61	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.82	90.9	35:20	0.51	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.95	97.4	35:26	0.52	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.73	86.4	35:53	0.52	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	1.89	94.6	36:36	0.54	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.67	83.6	37:59	0.47	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	1.65	82.3	39:45	0.47	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.58	72.6	30:15		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:32	0.83	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:53	0.52	

Client Information

Project Name: SWP-Wilmington
Sample ID: Bio-10D

Laboratory Information

Project ID: G440-12
Sample ID: 18993

Collection Date/Time: 23-Apr-01 14:00
Receipt Date: 24-Apr-01
Extraction Date: 03-May-01
Analysis Date: 09-May-01

Sample Information

Matrix: Tissue
Weight / Volume: 10.85 Grams
Solids / Lipids: 0.460 %
Original pH : NA
Batch ID: WG5402

Filename: a08may01a_2-7
Retchk: a08may01a-15
Begin ConCal: a08may01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 15May01

Reviewed by: [illegible]
Date: [illegible]

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SOUTHERN WOOD PIEDMONT

Method 1613

Bio-10E -17776

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	0.593			30:14	0.66	
1,2,3,7,8-PeCDD	0.262			33:33	1.51	A
1,2,3,4,7,8-HxCDD	ND	0.226				
1,2,3,6,7,8-HxCDD	ND	0.219				
1,2,3,7,8,9-HxCDD	ND	0.204				
1,2,3,4,6,7,8-HpCDD	0.947			39:09	1	A
OCDD	3.76			43:00	1.01	A
2,3,7,8--TCDF	1.07			29:19	0.82	
1,2,3,7,8-PeCDF	ND	0.165				
2,3,4,7,8-PeCDF	0.270			33:23	1.72	A
1,2,3,4,7,8-HxCDF	ND	0.142				
1,2,3,6,7,8-HxCDF	ND	0.133				
2,3,4,6,7,8-HxCDF	ND	0.165				
1,2,3,7,8,9-HxCDF	ND	0.197				
1,2,3,4,6,7,8-HpCDF	ND	0.260				
1,2,3,4,7,8,9-HpCDF	ND	0.385				
OCDF	ND	0.731				
Total TCDDs	0.593					
Total PeCDDs	0.262					
Total HxCDDs	ND	0.421				
Total HpCDDs	0.947					
Total TCDFs	1.07					
Total PeCDFs	0.587					
Total HxCDFs	0.307					
Total HpCDFs	ND	0.315				
ITEF TEQ (ND=0)	0.979		0.979			
ITEF TEQ (ND=½)	1.05		1.05			

Client Information

Project Name: SWP-Wilmington
Sample ID: Bio-10E

Laboratory Information

Project ID: G440-12
Sample ID: 18994

Collection Date/Time: 23-Apr-01 14:00
Receipt Date: 24-Apr-01
Extraction Date: 03-May-01
Analysis Date: 09-May-01

Sample Information

Matrix: Tissue
Weight / Volume: 10.16 Grams
Solids / Lipids: 1.87 %
Original pH : NA
Batch ID: WG5402

Filename: a08may01a_2-8
Retchk: a08may01a-15
Begin ConCal: a08may01a-15

Initial Cal: m1613-052699m

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Method 1613

Bio-10E

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.28	64.1	30:14	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.31	65.6	33:33	1.53	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.48	74.0	36:01	1.29	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	1.82	91.1	36:06	1.28	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.21	60.7	39:08	1.08	
$^{13}C_{12}$-OCDD	4	2.02	50.6	43:00	0.79	
$^{13}C_{12}$-2,3,7,8-TCDF	2	1.19	59.3	29:18	0.87	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.53	76.3	32:46	1.57	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	1.35	67.6	33:22	1.58	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.56	77.9	35:20	0.52	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.70	84.9	35:26	0.54	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.55	77.5	35:53	0.54	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	1.69	84.5	36:36	0.53	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.52	76.1	37:59	0.47	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	1.47	73.3	39:45	0.48	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.52	65.5	30:15		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:32	0.83	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:53	0.54	

Client Information

Project Name: SWP-Wilmington
Sample ID: Bio-10E

Laboratory Information

Project ID: G440-12
Sample ID: 18994

Collection Date/Time: 23-Apr-01 14:00
Receipt Date: 24-Apr-01
Extraction Date: 03-May-01
Analysis Date: 09-May-01

Sample Information

Matrix: Tissue
Weight / Volume: 10.16 Grams
Solids / Lipids: 1.87 %
Original pH : NA
Batch ID: WG5402

Filename: a08may01a_2-8
Retchk: a08may01a-15
Begin ConCal: a08may01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 15MAY01

Reviewed by: [illegible]
Date: 5/15/01

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SOUTHERN WOOD PIEDMONT

Method 1613
Bio-13A - 17777
Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.353				
1,2,3,7,8-PeCDD	0.356			33:34	1.65	A
1,2,3,4,7,8-HxCDD	0.242			36:01	1.13	A
1,2,3,6,7,8-HxCDD	0.797			36:06	1.13	A
1,2,3,7,8,9-HxCDD	0.224			36:19	1.27	A
1,2,3,4,6,7,8-HpCDD	5.02			39:10	1.06	
OCDD	11.0			43:01	0.78	
2,3,7,8--TCDF	0.547			29:19	0.79	
1,2,3,7,8-PeCDF	EMPC	0.117	0.195	32:47	1.17	
2,3,4,7,8-PeCDF	EMPC	0.156	0.370	33:22	1.23	
1,2,3,4,7,8-HxCDF	0.308			35:21	1.42	A
1,2,3,6,7,8-HxCDF	0.170			35:28	1.31	A
2,3,4,6,7,8-HxCDF	0.155			35:54	1.14	A
1,2,3,7,8,9-HxCDF	ND	0.190				
1,2,3,4,6,7,8-HpCDF	1.76			37:59	1.00	A
1,2,3,4,7,8,9-HpCDF	ND	0.400				
OCDF	ND	0.796				
Total TCDDs	ND	0.353				
Total PeCDDs	0.356					
Total HxCDDs	1.73		2.09			
Total HpCDDs	5.02		9.02			
Total TCDFs	0.547					
Total PeCDFs	0.611		1.35			
Total HxCDFs	3.86		4.23			
Total HpCDFs	1.76					
ITEF TEQ (ND=0)	0.501		0.696			
ITEF TEQ (ND=½)	0.731		0.884			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	Bio-13A		

Laboratory Information

Project ID:	G440-12		
Sample ID:	19049		
Collection Date/Time:	24-Apr-01	10:30	
Receipt Date:	25-Apr-01		
Extraction Date:	03-May-01		
Analysis Date:	09-May-01		

Sample Information

Matrix:	Tissue	
Weight / Volume:	10.97	Grams
Solids / Lipids:	1.64	%
Original pH :	NA	
Batch ID:	WG5402	
Filename:	a08may01a_2-9	
Retchk:	a08may01a-15	
Begin ConCal:	a08may01a-15	
Initial Cal:	m1613-052699m	

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SOUTHERN WOOD PIEDMONT

Method 1613

Bio-13A

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.26	63.0	30:14	0.86	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.31	65.5	33:33	1.49	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.50	75.0	36:01	1.31	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	1.88	93.8	36:06	1.26	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.23	61.3	39:08	1.06	
$^{13}C_{12}$-OCDD	4	2.05	51.3	43:00	0.8	
$^{13}C_{12}$-2,3,7,8-TCDF	2	1.13	56.7	29:18	0.82	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.56	78.1	32:46	1.6	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	1.22	60.9	33:22	1.58	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.62	81.1	35:20	0.52	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.78	89.1	35:26	0.53	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.53	76.7	35:53	0.52	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	1.80	90.1	36:36	0.52	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.59	79.5	37:59	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	1.51	75.4	39:45	0.47	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.50	62.6	30:15		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:31	0.84	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:53	0.52	

Client Information

Project Name: SWP-Wilmington
Sample ID: Bio-13A

Laboratory Information

Project ID: G440-12
Sample ID: 19049

Collection Date/Time: 24-Apr-01 10:30
Receipt Date: 25-Apr-01
Extraction Date: 03-May-01
Analysis Date: 09-May-01

Sample Information

Matrix: Tissue
Weight / Volume: 10.97 Grams
Solids / Lipids: 1.64 %
Original pH : NA
Batch ID: WG5402

Filename: a08may01a_2-9
Retchk: a08may01a-15
Begin ConCal: a08may01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 15MAY01

Reviewed by: [illegible]
Date: [illegible]

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Method 1613

Bio-13B -17779

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	0.227			30:16	0.71	A
1,2,3,7,8-PeCDD	EMPC	0.141	0.175	33:34	1.82	
1,2,3,4,7,8-HxCDD	ND	0.190				
1,2,3,6,7,8-HxCDD	0.985			36:06	1.23	A
1,2,3,7,8,9-HxCDD	0.328			36:19	1.11	A
1,2,3,4,6,7,8-HpCDD	5.69			39:10	0.99	
OCDD	31.7			43:01	0.84	
2,3,7,8--TCDF	EMPC	0.190	0.486	29:19	0.61	
1,2,3,7,8-PeCDF	0.153			32:46	1.58	A
2,3,4,7,8-PeCDF	EMPC	0.113	0.179	33:23	1.28	
1,2,3,4,7,8-HxCDF	EMPC	0.127	0.216	35:21	1.51	
1,2,3,6,7,8-HxCDF	ND	0.119				
2,3,4,6,7,8-HxCDF	ND	0.161				
1,2,3,7,8,9-HxCDF	ND	0.129				
1,2,3,4,6,7,8-HpCDF	1.57			37:59	1.08	A
1,2,3,4,7,8,9-HpCDF	ND	0.195				
OCDF	1.64			43:16	0.98	A
Total TCDDs	0.227					
Total PeCDDs	ND	0.361	0.175			
Total HxCDDs	1.31					
Total HpCDDs	11.7					
Total TCDFs	ND	0.190	0.486			
Total PeCDFs	0.153		0.332			
Total HxCDFs	0.679		0.895			
Total HpCDFs	2.46					
ITEF TEQ (ND=0)	0.472		0.719			
ITEF TEQ (ND=½)	0.582		0.750			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	Bio-13B		

Laboratory Information

Project ID:	G440-12		
Sample ID:	19050		
Collection Date/Time:	24-Apr-01	10:30	
Receipt Date:	25-Apr-01		
Extraction Date:	03-May-01		
Analysis Date:	09-May-01		

Sample Information

Matrix:	Tissue	
Weight / Volume:	11.64	Grams
Solids / Lipids:	3.18	%
Original pH :	NA	
Batch ID:	WG5402	
Filename:	a09may01a-10	
Retchk:	a09may01a-1	
Begin ConCal:	a09may01a-1	
Initial Cal:	m1613-052699m	

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SOUTHERN WOOD PIEDMONT

Method 1613

Bio-13B

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	0.95	47.5	30:14	0.83	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	0.94	46.9	33:33	1.52	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.20	60.1	36:01	1.18	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	1.40	70.0	36:05	1.18	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.26	63.1	39:08	1.12	
$^{13}C_{12}$-OCDD	4	2.33	58.2	43:00	0.79	
$^{13}C_{12}$-2,3,7,8-TCDF	2	0.75	37.6	29:18	0.78	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.13	56.5	32:46	1.52	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	0.75	37.3	33:22	1.56	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.18	59.2	35:20	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.38	69.2	35:26	0.5	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.14	57.1	35:53	0.52	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	1.76	88.0	36:36	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.48	73.9	37:59	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	1.55	77.6	39:45	0.48	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.35	44.0	30:15		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:32	0.86	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:53	0.52	

Client Information

Project Name: SWP-Wilmington
Sample ID: Bio-13B

Laboratory Information

Project ID: G440-12
Sample ID: 19050

Collection Date/Time: 24-Apr-01 10:30
Receipt Date: 25-Apr-01
Extraction Date: 03-May-01
Analysis Date: 09-May-01

Sample Information

Matrix: Tissue
Weight / Volume: 11.64 Grams
Solids / Lipids: 3.18 %
Original pH : NA
Batch ID: WG5402

Filename: a09may01a-10
Retchk: a09may01a-1
Begin ConCal: a09may01a-1

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 15MAY01

Reviewed by: [illegible]
Date: 5/15/01

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SOUTHERN WOOD PIEDMONT

Method 1613

Bio-13C -17779

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	EMPC	0.142	0.216	30:16	0.58	
1,2,3,7,8-PeCDD	EMPC	0.0900	0.279	33:34	1.94	
1,2,3,4,7,8-HxCDD	EMPC	0.156	0.347	36:02	1.69	
1,2,3,6,7,8-HxCDD	0.693			36:07	1.23	A
1,2,3,7,8,9-HxCDD	EMPC	0.138	0.431	36:20	1.44	
1,2,3,4,6,7,8-HpCDD	3.27			39:08	1.16	
OCDD	7.18			43:02	0.80	
2,3,7,8--TCDF	0.230			29:18	0.86	A
1,2,3,7,8-PeCDF	0.395			32:46	1.45	A
2,3,4,7,8-PeCDF	0.818			33:22	1.37	A
1,2,3,4,7,8-HxCDF	0.972			35:21	1.16	A
1,2,3,6,7,8-HxCDF	0.752			35:26	1.24	A
2,3,4,6,7,8-HxCDF	1.09			35:54	1.12	A
1,2,3,7,8,9-HxCDF	ND	0.268				
1,2,3,4,6,7,8-HpCDF	4.66			38:00	1.06	
1,2,3,4,7,8,9-HpCDF	EMPC	0.154	0.240	39:46	0.52	
OCDF	1.94			43:17	0.78	A
Total TCDDs	ND	0.142	0.216			
Total PeCDDs	2.63		2.91			
Total HxCDDs	4.91		5.69			
Total HpCDDs	6.84					
Total TCDFs	2.19					
Total PeCDFs	6.98					
Total HxCDFs	7.96					
Total HpCDFs	5.76		6.00			
ITEF TEQ (ND=0)	0.891		1.33			
ITEF TEQ (ND=½)	1.01		1.34			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	Bio-13C		

Laboratory Information

Project ID:	G440-12		
Sample ID:	19051		
Collection Date/Time:	24-Apr-01	10:30	
Receipt Date:	25-Apr-01		
Extraction Date:	03-May-01		
Analysis Date:	09-May-01		

Sample Information

Matrix:	Tissue	
Weight / Volume:	10.02	Grams
Solids / Lipids:	1.10	%
Original pH :	NA	
Batch ID:	WG5402	
Filename:	a09may01a-11	
Retchk:	a09may01a-1	
Begin ConCal:	a09may01a-1	
Initial Cal:	m1613-052699m	

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Method 1613

Bio-13C

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.37	68.5	30:14	0.82	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.32	66.1	33:33	1.56	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.58	78.9	36:01	1.18	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.06	103.2	36:05	1.18	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.46	72.8	39:08	1.09	
$^{13}C_{12}$-OCDD	4	2.36	59.1	43:00	0.77	
$^{13}C_{12}$-2,3,7,8-TCDF	2	1.17	58.4	29:18	0.84	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.47	73.6	32:46	1.64	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	1.21	60.6	33:22	1.55	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.62	81.1	35:20	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.91	95.7	35:26	0.51	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.66	83.0	35:53	0.52	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	1.89	94.5	36:36	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.79	89.3	37:59	0.47	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	1.77	88.3	39:44	0.47	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.53	66.0	30:16		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:32	0.83	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:53	0.52	

Client Information

Project Name: SWP-Wilmington
Sample ID: Bio-13C

Laboratory Information

Project ID: G440-12
Sample ID: 19051

Collection Date/Time: 24-Apr-01 10:30
Receipt Date: 25-Apr-01
Extraction Date: 03-May-01
Analysis Date: 09-May-01

Sample Information

Matrix: Tissue
Weight / Volume: 10.02 Grams
Solids / Lipids: 1.10 %
Original pH : NA
Batch ID: WG5402

Filename: a09may01a-11
Retchk: a09may01a-1
Begin ConCal: a09may01a-1

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 15May01

Reviewed by: [illegible]
Date: 5/15/01

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SOUTHERN WOOD PIEDMONT

Method 1613

Bio-13D -M80

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	EMPC	0.124	0.265	30:14	0.56	
1,2,3,7,8-PeCDD	0.539			33:34	1.44	A
1,2,3,4,7,8-HxCDD	0.175			36:01	1.40	A
1,2,3,6,7,8-HxCDD	0.951			36:06	1.17	A
1,2,3,7,8,9-HxCDD	EMPC	0.109	0.158	36:20	1.00	
1,2,3,4,6,7,8-HpCDD	4.85			39:09	1.02	
OCDD	37.8			43:01	0.84	
2,3,7,8--TCDF	0.395			29:19	0.82	A
1,2,3,7,8-PeCDF	0.230			32:46	1.49	A
2,3,4,7,8-PeCDF	EMPC	0.0792	0.337	33:22	1.82	
1,2,3,4,7,8-HxCDF	0.249			35:21	1.07	A
1,2,3,6,7,8-HxCDF	0.163			35:26	1.32	A
2,3,4,6,7,8-HxCDF	EMPC	0.113	0.150	35:54	1.55	
1,2,3,7,8,9-HxCDF	ND	0.135				
1,2,3,4,6,7,8-HpCDF	1.38			38:00	1.13	A
1,2,3,4,7,8,9-HpCDF	ND	0.181				
OCDF	1.75			43:17	0.79	A
Total TCDDs	ND	0.228	0.265			
Total PeCDDs	0.539					
Total HxCDDs	1.50		2.06			
Total HpCDDs	17.7					
Total TCDFs	0.395					
Total PeCDFs	0.539		0.875			
Total HxCDFs	2.20		2.35			
Total HpCDFs	2.79					
ITEF TEQ (ND=0)	0.576		1.04			
ITEF TEQ (ND=½)	0.677		1.05			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	Bio-13D		

Laboratory Information

Project ID:	G440-12		
Sample ID:	19052		
Collection Date/Time:	24-Apr-01	10:30	
Receipt Date:	25-Apr-01		
Extraction Date:	03-May-01		
Analysis Date:	10-May-01		

Sample Information

Matrix:	Tissue	
Weight / Volume:	10.28	Grams
Solids / Lipids:	2.92	%
Original pH :	NA	
Batch ID:	WG5402	
Filename:	a09may01a-12	
Retchk:	a09may01a-1	
Begin ConCal:	a09may01a-1	
Initial Cal:	m1613-052699m	

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Method 1613

Bio-13D

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.33	66.6	30:14	0.85	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.35	67.7	33:33	1.52	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.55	77.5	36:00	1.18	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	1.99	99.3	36:06	1.16	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.38	69.1	39:08	1.12	
$^{13}C_{12}$-OCDD	4	2.22	55.6	43:00	0.76	
$^{13}C_{12}$-2,3,7,8-TCDF	2	1.21	60.3	29:18	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.50	75.1	32:46	1.55	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	1.29	64.4	33:22	1.56	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.64	82.2	35:20	0.51	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.89	94.6	35:26	0.51	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.65	82.6	35:53	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	1.82	91.2	36:36	0.52	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.71	85.3	37:59	0.47	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	1.66	83.2	39:44	0.48	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.51	63.1	30:15		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:32	0.87	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:53	0.51	

Client Information

Project Name: SWP-Wilmington
Sample ID: Bio-13D

Laboratory Information

Project ID: G440-12
Sample ID: 19052

Collection Date/Time: 24-Apr-01 10:30
Receipt Date: 25-Apr-01
Extraction Date: 03-May-01
Analysis Date: 10-May-01

Analyzed by: HMP
Date: 15May01

Sample Information

Matrix: Tissue
Weight / Volume: 10.28 Grams
Solids / Lipids: 2.92 %
Original pH : NA
Batch ID: WG5402

Filename: a09may01a-12
Retchk: a09may01a-1
Begin ConCal: a09may01a-1

Initial Cal: m1613-052699m

Reviewed by: [illegible]
Date: 5/15/01

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Method 1613
Bio-13E -17781
Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	0.629			30:16	0.85	
1,2,3,7,8-PeCDD	1.01			33:34	1.53	A
1,2,3,4,7,8-HxCDD	0.483			36:02	1.08	A
1,2,3,6,7,8-HxCDD	2.41			36:07	1.14	
1,2,3,7,8,9-HxCDD	0.492			36:19	1.24	A
1,2,3,4,6,7,8-HpCDD	8.75			39:09	1.04	
OCDD	46.9			43:01	0.83	
2,3,7,8--TCDF	0.772			29:20	0.75	
1,2,3,7,8-PeCDF	0.278			32:46	1.60	A
2,3,4,7,8-PeCDF	1.37			33:23	1.44	A
1,2,3,4,7,8-HxCDF	0.556			35:21	1.38	A
1,2,3,6,7,8-HxCDF	EMPC	0.0889	0.342	35:27	0.96	
2,3,4,6,7,8-HxCDF	0.390			35:54	1.13	A
1,2,3,7,8,9-HxCDF	EMPC	0.107	0.177	36:37	1.46	
1,2,3,4,6,7,8-HpCDF	1.80			38:00	1.05	A
1,2,3,4,7,8,9-HpCDF	0.236			39:46	1.19	A
OCDF	EMPC	0.238	2.75	43:18	0.75	
Total TCDDs	0.629					
Total PeCDDs	1.01					
Total HxCDDs	3.39		3.97			
Total HpCDDs	18.8					
Total TCDFs	0.772					
Total PeCDFs	2.02		2.13			
Total HxCDFs	4.00		4.52			
Total HpCDFs	3.64					
ITEF TEQ (ND=0)	2.50		2.55			
ITEF TEQ (ND=½)	2.51		2.55			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	Bio-13E		

Laboratory Information

Project ID:	G440-12		
Sample ID:	19053		
Collection Date/Time:	24-Apr-01	10:30	
Receipt Date:	25-Apr-01		
Extraction Date:	03-May-01		
Analysis Date:	10-May-01		

Sample Information

Matrix:	Tissue	
Weight / Volume:	10.93	Grams
Solids / Lipids:	4.48	%
Original pH :	NA	
Batch ID:	WG5402	
Filename:	a09may01a-13	
Retchk:	a09may01a-1	
Begin ConCal:	a09may01a-1	
Initial Cal:	m1613-052699m	

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Method 1613

Bio-13E

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.13	56.5	30:14	0.86	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.17	58.6	33:33	1.52	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.34	67.0	36:01	1.24	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	1.66	83.1	36:06	1.11	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.38	69.2	39:08	1.14	
$^{13}C_{12}$-OCDD	4	2.40	60.1	43:00	0.74	
$^{13}C_{12}$-2,3,7,8-TCDF	2	0.93	46.5	29:18	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.35	67.6	32:46	1.56	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	0.97	48.3	33:22	1.59	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.47	73.7	35:20	0.51	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.71	85.6	35:26	0.5	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.38	69.0	35:53	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	1.91	95.5	36:36	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.70	85.0	37:59	0.47	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	1.70	85.0	39:44	0.47	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.41	50.8	30:15		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:32	0.86	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:53	0.51	

Client Information

Project Name: SWP-Wilmington
Sample ID: Bio-13E

Laboratory Information

Project ID: G440-12
Sample ID: 19053

Collection Date/Time: 24-Apr-01 10:30
Receipt Date: 25-Apr-01
Extraction Date: 03-May-01
Analysis Date: 10-May-01

Sample Information

Matrix: Tissue
Weight / Volume: 10.93 Grams
Solids / Lipids: 4.48 %
Original pH : NA
Batch ID: WG5402

Filename: a09may01a-13
Retchk: a09may01a-1
Begin ConCal: a09may01a-1

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 15May01

Reviewed by: [illegible]
Date: 5/15/01

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Method 1613

Bio-13B-Dup

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	0.394			30:15	0.66	A
1,2,3,7,8-PeCDD	0.381			33:34	1.71	A
1,2,3,4,7,8-HxCDD	EMPC	0.153	0.154	36:02	0.99	
1,2,3,6,7,8-HxCDD	1.56			36:06	1.08	A
1,2,3,7,8,9-HxCDD	0.394			36:20	1.29	A
1,2,3,4,6,7,8-HpCDD	10.5			39:09	1.11	
OCDD	72.7			43:01	0.84	
2,3,7,8--TCDF	2.70			29:19	0.79	
1,2,3,7,8-PeCDF	0.285			32:46	1.44	A
2,3,4,7,8-PeCDF	0.336			33:22	1.61	A
1,2,3,4,7,8-HxCDF	EMPC	0.0910	0.218	35:21	1.01	
1,2,3,6,7,8-HxCDF	0.169			35:26	1.1	A
2,3,4,6,7,8-HxCDF	0.238			35:54	1.06	A
1,2,3,7,8,9-HxCDF	ND	0.126				
1,2,3,4,6,7,8-HpCDF	1.84			38:00	1.07	A
1,2,3,4,7,8,9-HpCDF	ND	0.186				
OCDF	EMPC	0.428	2.66	43:17	0.73	
Total TCDDs	0.394					
Total PeCDDs	0.381					
Total HxCDDs	2.39		2.87			
Total HpCDDs	33.4					
Total TCDFs	2.70					
Total PeCDFs	1.29					
Total HxCDFs	1.85		2.30			
Total HpCDFs	1.84		3.52			
ITEF TEQ (ND=0)	1.47		1.51			
ITEF TEQ (ND=½)	1.49		1.52			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	Bio-13B-Dup		

Laboratory Information

Project ID:	G440-12		
Sample ID:	19054		
Collection Date/Time:	24-Apr-01	10:30	
Receipt Date:	25-Apr-01		
Extraction Date:	03-May-01		
Analysis Date:	10-May-01		

Sample Information

Matrix:	Tissue	
Weight / Volume:	10.66	Grams
Solids / Lipids:	12.1	%
Original pH :	NA	
Batch ID:	WG5402	
Filename:	a09may01a-14	
Retchk:	a09may01a-1	
Begin ConCal:	a09may01a-1	
Initial Cal:	m1613-052699m	

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Method 1613

Bio-13B-Dup

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.63	81.4	30:14	0.82	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.42	71.2	33:33	1.53	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.57	78.4	36:00	1.26	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	1.91	95.5	36:06	1.11	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.30	65.1	39:08	1.13	
$^{13}C_{12}$-OCDD	4	2.20	55.0	43:00	0.78	
$^{13}C_{12}$-2,3,7,8-TCDF	2	1.30	65.2	29:18	0.82	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.63	81.7	32:46	1.55	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	1.28	64.2	33:22	1.6	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.59	79.6	35:20	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.91	95.3	35:26	0.52	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.64	81.8	35:53	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	1.88	94.1	36:36	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.62	80.9	37:59	0.48	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	1.66	82.8	39:44	0.47	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.66	82.1	30:15		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:31	0.84	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:53	0.51	

Client Information

Project Name: SWP-Wilmington
Sample ID: Bio-13B-Dup

Laboratory Information

Project ID: G440-12
Sample ID: 19054

Collection Date/Time: 24-Apr-01 10:30
Receipt Date: 25-Apr-01
Extraction Date: 03-May-01
Analysis Date: 10-May-01

Sample Information

Matrix: Tissue
Weight / Volume: 10.66 Grams
Solids / Lipids: 12.1 %
Original pH : NA
Batch ID: WG5402

Filename: a09may01a-14
Retchk: a09may01a-1
Begin ConCal: a09may01a-1

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 15MAY01

Reviewed by: [illegible]
Date: 5/15/01

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SOUTHERN WOOD PIEDMONT

Method 1613

Bio-13E-Dup

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	EMPC	0.0922	0.339	30:16	0.65	
1,2,3,7,8-PeCDD	EMPC	0.104	0.304	33:34	1.55	
1,2,3,4,7,8-HxCDD	ND	0.135				
1,2,3,6,7,8-HxCDD	0.284			36:06	1.27	A
1,2,3,7,8,9-HxCDD	ND	0.121				
1,2,3,4,6,7,8-HpCDD	2.38			39:09	0.99	
OCDD	23.5			43:01	0.82	
2,3,7,8--TCDF	EMPC	0.0708	0.761	29:18	0.65	
1,2,3,7,8-PeCDF	0.121			32:47	1.40	A
2,3,4,7,8-PeCDF	0.443			33:22	1.44	A
1,2,3,4,7,8-HxCDF	EMPC	0.0787	0.113	35:21	0.99	
1,2,3,6,7,8-HxCDF	0.179			35:27	1.13	A
2,3,4,6,7,8-HxCDF	0.139			35:54	1.40	A
1,2,3,7,8,9-HxCDF	ND	0.113				
1,2,3,4,6,7,8-HpCDF	1.13			38:00	1.09	A
1,2,3,4,7,8,9-HpCDF	ND	0.164				
OCDF	1.71			43:17	0.8	A
Total TCDDs	ND	0.298	0.339			
Total PeCDDs	ND	0.388	0.304			
Total HxCDDs	0.284		0.562			
Total HpCDDs	10.4					
Total TCDFs	1.84		2.60			DPE
Total PeCDFs	2.32		2.50			DPE
Total HxCDFs	2.60		2.72			DPE
Total HpCDFs	2.18					
ITEF TEQ (ND=0)	0.348		0.926			
ITEF TEQ (ND=½)	0.447		0.946			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	Bio-13E-Dup		

Sample Information

Matrix:	Tissue	
Weight / Volume:	10.93	Grams
Solids / Lipids:	1.46	%
Original pH :	NA	

Laboratory Information

Project ID:	G440-12	Batch ID:	WG5416
Sample ID:	19055R		
		Filename:	a14may01a-6
Collection Date/Time:	24-Apr-01 10:30	Retchk:	a14may01a-1
Receipt Date:	25-Apr-01	Begin ConCal:	a14may01a-1
Extraction Date:	11-May-01		
Analysis Date:	14-May-01	Initial Cal:	m1613-052699m

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Method 1613

Bio-13E-Dup

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.85	92.7	30:14	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.79	89.3	33:33	1.55	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.65	82.3	36:01	1.21	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.28	113.9	36:05	1.2	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.50	75.0	39:08	1.08	
$^{13}C_{12}$-OCDD	4	2.69	67.2	43:00	0.88	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.09	104.5	29:18	0.78	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.90	95.0	32:46	1.58	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	2.10	105.1	33:22	1.59	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.76	88.0	35:20	0.51	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.16	108.1	35:26	0.51	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.89	94.7	35:53	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	1.93	96.6	36:36	0.52	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.85	92.7	37:59	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	1.85	92.6	39:44	0.48	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.70	87.5	30:15		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:31	0.81	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:53	0.51	

Client Information

Project Name: SWP-Wilmington
Sample ID: Bio-13E-Dup

Laboratory Information

Project ID: G440-12
Sample ID: 19055R

Collection Date/Time: 24-Apr-01 10:30
Receipt Date: 25-Apr-01
Extraction Date: 11-May-01
Analysis Date: 14-May-01

Analyzed by: HMP
Date: 15May01

Sample Information

Matrix: Tissue
Weight / Volume: 10.93 Grams
Solids / Lipids: 1.46 %
Original pH : NA
Batch ID: WG5416

Filename: a14may01a-6
Retchk: a14may01a-1
Begin ConCal: a14may01a-1

Initial Cal: m1613-052699m

Reviewed by: [illegible]
Date: 5/15/01

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Method 1613

Bio-14-Comp 1782

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	EMPC	0.193	0.340	30:15	0.55	
1,2,3,7,8-PeCDD	0.913			33:34	1.61	A
1,2,3,4,7,8-HxCDD	1.20			36:02	1.14	A
1,2,3,6,7,8-HxCDD	6.42			36:07	1.1	
1,2,3,7,8,9-HxCDD	2.17			36:20	1.19	A
1,2,3,4,6,7,8-HpCDD	311			39:09	1.07	
OCDD	4190			43:01	0.85	E
2,3,7,8--TCDF	0.450			29:20	0.78	A
1,2,3,7,8-PeCDF	0.221			32:47	1.36	A
2,3,4,7,8-PeCDF	0.544			33:23	1.59	A
1,2,3,4,7,8-HxCDF	1.24			35:21	1.31	A
1,2,3,6,7,8-HxCDF	0.653			35:26	1.08	A
2,3,4,6,7,8-HxCDF	1.01			35:54	1.17	A
1,2,3,7,8,9-HxCDF	EMPC	0.633	0.313	36:39	1.65	
1,2,3,4,6,7,8-HpCDF	56.1			37:59	1.10	
1,2,3,4,7,8,9-HpCDF	ND	2.44				
OCDF	171			43:17	0.82	
Total TCDDs	ND	0.196	0.340			
Total PeCDDs	1.97		3.44			
Total HxCDDs	81.0					
Total HpCDDs	1880					
Total TCDFs	0.450					
Total PeCDFs	3.24		3.39			
Total HxCDFs	34.6		34.9			
Total HpCDFs	167					
ITEF TEQ (ND=0)	10.1		10.5			
ITEF TEQ (ND=½)	10.2		10.5			

Client Information

Project Name:	SWP-Wilmington			
Sample ID:	Bio-14-Comp	Matrix:	Tissue	
		Weight / Volume:	10.41	Grams
Laboratory Information		Solids / Lipids:	6.72	%
		Original pH :	NA	
Project ID:	G440-12	Batch ID:	WG5402	
Sample ID:	19056			
		Filename:	a09may01a_2-2	
Collection Date/Time:	24-Apr-01 10:30	Retchk:	a09may01a-15	
Receipt Date:	25-Apr-01	Begin ConCal:	a09may01a-15	
Extraction Date:	03-May-01			
Analysis Date:	10-May-01	Initial Cal:	m1613-052699m	

Sample Information

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Method 1613

Bio-14-Comp

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	0.92	46.2	30:14	0.83	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	0.88	44.1	33:33	1.55	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	0.98	49.1	36:01	1.14	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	1.30	65.1	36:06	1.18	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	0.97	48.5	39:08	1.14	
$^{13}C_{12}$-OCDD	4	1.77	44.4	43:00	0.8	
$^{13}C_{12}$-2,3,7,8-TCDF	2	0.82	40.8	29:18	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.00	50.0	32:46	1.57	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	0.79	39.6	33:22	1.6	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.11	55.3	35:20	0.50	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.27	63.5	35:26	0.51	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.08	53.8	35:53	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	1.36	67.9	36:36	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.14	57.0	37:59	0.47	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	1.12	56.2	39:45	0.47	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.53	66.3	30:15		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:31	0.84	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:53	0.51	

Client Information

Project Name: SWP-Wilmington
Sample ID: Bio-14-Comp

Laboratory Information

Project ID: G440-12
Sample ID: 19056

Collection Date/Time: 24-Apr-01 10:30
Receipt Date: 25-Apr-01
Extraction Date: 03-May-01
Analysis Date: 10-May-01

Sample Information

Matrix: Tissue
Weight / Volume: 10.41 Grams
Solids / Lipids: 6.72 %
Original pH : NA
Batch ID: WG5402

Filename: a09may01a_2-2
Retchk: a09may01a-15
Begin ConCal: a09may01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 15MAY01

Reviewed by: [illegible]
Date: [illegible]

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SOUTHERN WOOD PIEDMONT

Method 1613

Bio-11A -17793

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.274				
1,2,3,7,8-PeCDD	0.182			33:35	1.63	A
1,2,3,4,7,8-HxCDD	ND	0.246				
1,2,3,6,7,8-HxCDD	ND	0.242				
1,2,3,7,8,9-HxCDD	ND	0.223				
1,2,3,4,6,7,8-HpCDD	0.967			39:10	0.91	A
OCDD	5.14			43:01	0.90	
2,3,7,8--TCDF	ND	0.207				
1,2,3,7,8-PeCDF	0.0993			32:47	1.34	A
2,3,4,7,8-PeCDF	0.180			33:23	1.32	A
1,2,3,4,7,8-HxCDF	0.163			35:21	1.25	A
1,2,3,6,7,8-HxCDF	EMPC	0.112	0.112	35:27	0.81	
2,3,4,6,7,8-HxCDF	EMPC	0.141	0.146	35:54	0.97	
1,2,3,7,8,9-HxCDF	ND	0.127				
1,2,3,4,6,7,8-HpCDF	0.330			38:00	1.12	A
1,2,3,4,7,8,9-HpCDF	ND	0.202				
OCDF	ND	0.654				
Total TCDDs	ND	0.274				
Total PeCDDs	0.182					
Total HxCDDs	ND	0.506				
Total HpCDDs	2.14					
Total TCDFs	ND	0.207				
Total PeCDFs	0.279					
Total HxCDFs	0.163		0.549			
Total HpCDFs	0.330					
ITEF TEQ (ND=0)	0.220		0.246			
ITEF TEQ (ND=½)	0.424		0.437			

Client Information

Project Name:	SWP-Wilmington
Sample ID:	Bio-11A

Laboratory Information

Project ID:	G440-12
Sample ID:	19175
Collection Date/Time:	25-Apr-01 11:00
Receipt Date:	26-Apr-01
Extraction Date:	03-May-01
Analysis Date:	10-May-01

Sample Information

Matrix:	Tissue	
Weight / Volume:	10.67	Grams
Solids / Lipids:	3.28	%
Original pH :	NA	
Batch ID:	WG5402	
Filename:	a09may01a_2-3	
Retchk:	a09may01a-15	
Begin ConCal:	a09may01a-15	
Initial Cal:	m1613-052699m	

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Method 1613

Bio-11A

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	0.84	42.1	30:15	0.85	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	0.83	41.3	33:33	1.54	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	0.96	48.0	36:01	1.17	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	1.25	62.4	36:06	1.17	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.02	50.8	39:08	1.11	
$^{13}C_{12}$-OCDD	4	1.67	41.7	43:00	0.71	
$^{13}C_{12}$-2,3,7,8-TCDF	2	0.71	35.7	29:18	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	0.95	47.5	32:46	1.6	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	0.72	36.2	33:22	1.54	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.05	52.3	35:20	0.50	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.21	60.7	35:26	0.51	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.00	50.1	35:53	0.52	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	1.59	79.3	36:36	0.52	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.24	61.8	37:59	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	1.23	61.6	39:45	0.47	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.41	51.3	30:15		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:32	0.83	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:53	0.52	

Client Information

Project Name: SWP-Wilmington
Sample ID: Bio-11A

Laboratory Information

Project ID: G440-12
Sample ID: 19175

Collection Date/Time: 25-Apr-01 11:00
Receipt Date: 26-Apr-01
Extraction Date: 03-May-01
Analysis Date: 10-May-01

Sample Information

Matrix: Tissue
Weight / Volume: 10.67 Grams
Solids / Lipids: 3.28 %
Original pH : NA
Batch ID: WG5402

Filename: a09may01a_2-3
Retchk: a09may01a-15
Begin ConCal: a09may01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 16May01

Reviewed by: [illegible]
Date: 5/16/01

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Method 1613
Bio-11B -17784
Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.301				
1,2,3,7,8-PeCDD	ND	0.144				
1,2,3,4,7,8-HxCDD	ND	0.249				
1,2,3,6,7,8-HxCDD	ND	0.246				
1,2,3,7,8,9-HxCDD	ND	0.226				
1,2,3,4,6,7,8-HpCDD	3.13			39:09	1.11	
OCDD	36.5			43:01	0.81	
2,3,7,8--TCDF	ND	0.224				
1,2,3,7,8-PeCDF	EMPC	0.106	0.0822	32:47	1.15	
2,3,4,7,8-PeCDF	0.228			33:22	1.59	A
1,2,3,4,7,8-HxCDF	ND	0.152				
1,2,3,6,7,8-HxCDF	ND	0.150				
2,3,4,6,7,8-HxCDF	EMPC	0.190	0.312	35:54	1.00	
1,2,3,7,8,9-HxCDF	ND	0.209				
1,2,3,4,6,7,8-HpCDF	1.20			38:00	1.09	A
1,2,3,4,7,8,9-HpCDF	ND	0.302				
OCDF	1.93			43:16	0.78	A
Total TCDDs	ND	0.301				
Total PeCDDs	0.297					
Total HxCDDs	1.18		1.49			
Total HpCDDs	10.6					
Total TCDFs	ND	0.224				
Total PeCDFs	0.507		1.24			
Total HxCDFs	1.01		1.92			
Total HpCDFs	2.24					
ITEF TEQ (ND=0)	0.196		0.231			
ITEF TEQ (ND=½)	0.468		0.492			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	Bio-11B		

Laboratory Information

Project ID:	G440-12		
Sample ID:	19176		
Collection Date/Time:	25-Apr-01	11:00	
Receipt Date:	26-Apr-01		
Extraction Date:	03-May-01		
Analysis Date:	10-May-01		

Sample Information

Matrix:	Tissue	
Weight / Volume:	10.70	Grams
Solids / Lipids:	1.68	%
Original pH :	NA	
Batch ID:	WG5402	
Filename:	a09may01a_2-4	
Retchk:	a09may01a-15	
Begin ConCal:	a09may01a-15	
Initial Cal:	m1613-052699m	

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Method 1613

Bio-11B

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	0.88	44.0	30:15	0.84	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	0.83	41.6	33:33	1.52	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	0.97	48.4	36:01	1.17	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	1.26	62.8	36:06	1.16	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	0.92	45.8	39:08	1.1	
$^{13}C_{12}$-OCDD	4	1.44	35.9	43:00	0.74	
$^{13}C_{12}$-2,3,7,8-TCDF	2	0.74	36.9	29:18	0.82	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	0.94	47.2	32:46	1.56	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	0.73	36.4	33:22	1.6	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.06	52.8	35:20	0.51	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.23	61.4	35:26	0.51	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.02	50.9	35:53	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	1.20	60.0	36:36	0.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.10	55.1	37:59	0.47	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	1.11	55.4	39:45	0.45	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.51	63.1	30:15		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:32	0.83	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:53	0.51	

Client Information

Project Name: SWP-Wilmington
Sample ID: Bio-11B

Laboratory Information

Project ID: G440-12
Sample ID: 19176

Collection Date/Time: 25-Apr-01 11:00
Receipt Date: 26-Apr-01
Extraction Date: 03-May-01
Analysis Date: 10-May-01

Sample Information

Matrix: Tissue
Weight / Volume: 10.70 Grams
Solids / Lipids: 1.68 %
Original pH : NA
Batch ID: WG5402

Filename: a09may01a_2-4
Retchk: a09may01a-15
Begin ConCal: a09may01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 16May01

Reviewed by: [illegible]
Date: 5/16/01

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SOUTHERN WOOD PIEDMONT

Method 1613
Bio-11C 17785
Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.191				
1,2,3,7,8-PeCDD	ND	0.166				
1,2,3,4,7,8-HxCDD	ND	0.252				
1,2,3,6,7,8-HxCDD	ND	0.244				
1,2,3,7,8,9-HxCDD	ND	0.226				
1,2,3,4,6,7,8-HpCDD	1.12			39:09	1.09	A
OCDD	10.2			43:01	0.95	
2,3,7,8--TCDF	ND	0.152				
1,2,3,7,8-PeCDF	ND	0.115				
2,3,4,7,8-PeCDF	EMPC	0.131	0.194	33:23	1.11	
1,2,3,4,7,8-HxCDF	ND	0.144				
1,2,3,6,7,8-HxCDF	ND	0.144				
2,3,4,6,7,8-HxCDF	ND	0.170				
1,2,3,7,8,9-HxCDF	ND	0.203				
1,2,3,4,6,7,8-HpCDF	0.270			38:01	1.16	A
1,2,3,4,7,8,9-HpCDF	ND	0.230				
OCDF	ND	0.560				
Total TCDDs	ND	0.232				
Total PeCDDs	ND	0.400				
Total HxCDDs	0.181					
Total HpCDDs	2.60					
Total TCDFs	ND	0.152				
Total PeCDFs	0.234		0.428			
Total HxCDFs	ND	0.165	0.354			
Total HpCDFs	0.270					
ITEF TEQ (ND=0)	0.0241		0.121			
ITEF TEQ (ND=½)	0.275		0.339			

Client Information

Project Name:	SWP-Wilmington
Sample ID:	Bio-11C

Laboratory Information

Project ID:	G440-12
Sample ID:	19177
Collection Date/Time:	25-Apr-01 11:00
Receipt Date:	26-Apr-01
Extraction Date:	03-May-01
Analysis Date:	10-May-01

Sample Information

Matrix:	Tissue	
Weight / Volume:	10.61	Grams
Solids / Lipids:	3.77	%
Original pH :	NA	
Batch ID:	WG5402	
Filename:	a09may01a_2-5	
Retchk:	a09may01a-15	
Begin ConCal:	a09may01a-15	
Initial Cal:	m1613-052699m	

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Method 1613

Bio-11C

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	0.93	46.3	30:14	0.83	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	0.87	43.3	33:33	1.52	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.01	50.7	36:01	1.16	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	1.32	66.0	36:06	1.17	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	0.92	46.2	39:08	1.11	
$^{13}C_{12}$-OCDD	4	1.53	38.3	43:00	0.75	
$^{13}C_{12}$-2,3,7,8-TCDF	2	0.91	45.4	29:19	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	0.96	48.2	32:46	1.56	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	0.91	45.4	33:22	1.57	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.07	53.5	35:20	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.23	61.6	35:26	0.49	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.08	54.2	35:53	0.5	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	1.20	60.0	36:36	0.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.15	57.3	37:59	0.48	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	1.13	56.4	39:45	0.47	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.57	71.8	30:15		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:31	0.85	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:53	0.5	

Client Information

Project Name: SWP-Wilmington
Sample ID: Bio-11C

Laboratory Information

Project ID: G440-12
Sample ID: 19177

Collection Date/Time: 25-Apr-01 11:00
Receipt Date: 26-Apr-01
Extraction Date: 03-May-01
Analysis Date: 10-May-01

Analyzed by: HMP
Date: 16May01

Sample Information

Matrix: Tissue
Weight / Volume: 10.61 Grams
Solids / Lipids: 3.77 %
Original pH : NA
Batch ID: WG5402

Filename: a09may01a_2-5
Retchk: a09may01a-15
Begin ConCal: a09may01a-15

Initial Cal: m1613-052699m

Reviewed by: [illegible]
Date: 5/16/01

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Method 1613

Bio-11C-Dup

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	EMPC	0.254	0.330	30:15	0.68	
1,2,3,7,8-PeCDD	0.233			33:34	1.32	A
1,2,3,4,7,8-HxCDD	ND	0.338				
1,2,3,6,7,8-HxCDD	ND	0.327				
1,2,3,7,8,9-HxCDD	ND	0.304				
1,2,3,4,6,7,8-HpCDD	1.65			39:10	1	A
OCDD	9.82			43:01	0.85	
2,3,7,8--TCDF	ND	0.284				
1,2,3,7,8-PeCDF	0.116			32:47	1.38	A
2,3,4,7,8-PeCDF	0.307			33:22	1.52	A
1,2,3,4,7,8-HxCDF	0.324			35:21	1.22	A
1,2,3,6,7,8-HxCDF	0.271			35:26	1.39	A
2,3,4,6,7,8-HxCDF	0.408			35:54	1.21	A
1,2,3,7,8,9-HxCDF	ND	0.304				
1,2,3,4,6,7,8-HpCDF	1.42			37:59	1.09	A
1,2,3,4,7,8,9-HpCDF	ND	0.301				
OCDF	EMPC	0.807	0.915	43:16	1	
Total TCDDs	0.330					
Total PeCDDs	0.810					
Total HxCDDs	0.524		1.41			
Total HpCDDs	3.71					
Total TCDFs	ND	0.284				
Total PeCDFs	0.671		1.34			
Total HxCDFs	2.45					
Total HpCDFs	1.42		1.70			
ITEF TEQ (ND=0)	0.417		0.748			
ITEF TEQ (ND=½)	0.623		0.827			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	Bio-11C-Dup		

Sample Information

Matrix:	Tissue	
Weight / Volume:	10.49	Grams
Solids / Lipids:	4.39	%
Original pH :	NA	

Laboratory Information

Project ID:	G440-12	Batch ID:	WG5402
Sample ID:	19178		
		Filename:	a09may01a_2-6
Collection Date/Time:	25-Apr-01 11:00	Retchk:	a09may01a-15
Receipt Date:	26-Apr-01	Begin ConCal:	a09may01a-15
Extraction Date:	03-May-01		
Analysis Date:	10-May-01	Initial Cal:	m1613-052699m

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Method 1613

Bio-11C-Dup

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	0.80	40.2	30:14	0.83	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	0.80	40.0	33:33	1.55	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	0.90	45.2	36:01	1.14	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	1.19	59.4	36:06	1.16	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	0.94	47.2	39:08	1.1	
$^{13}C_{12}$-OCDD	4	1.56	39.0	43:00	0.76	
$^{13}C_{12}$-2,3,7,8-TCDF	2	0.59	29.5	29:18	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	0.93	46.7	32:46	1.58	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	0.59	29.7	33:22	1.54	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.02	51.0	35:20	0.49	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.16	58.2	35:26	0.5	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	0.97	48.4	35:53	0.5	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	1.28	64.1	36:36	0.5	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.12	55.8	37:59	0.47	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	1.15	57.6	39:45	0.48	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.44	54.8	30:15		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:31	0.84	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:53	0.5	

Client Information

Project Name: SWP-Wilmington
Sample ID: Bio-11C-Dup

Laboratory Information

Project ID: G440-12
Sample ID: 19178

Collection Date/Time: 25-Apr-01 11:00
Receipt Date: 26-Apr-01
Extraction Date: 03-May-01
Analysis Date: 10-May-01

Sample Information

Matrix: Tissue
Weight / Volume: 10.49 Grams
Solids / Lipids: 4.39 %
Original pH : NA
Batch ID: WG5402

Filename: a09may01a_2-6
Retchk: a09may01a-15
Begin ConCal: a09may01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 16May01

Reviewed by: [illegible]
Date: 5/16/01

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SOUTHERN WOOD PIEDMONT

Method 1613

Bio-15-Comp 17786

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	0.246			30:15	0.76	A
1,2,3,7,8-PeCDD	0.194			33:33	1.48	A
1,2,3,4,7,8-HxCDD	ND	0.160				
1,2,3,6,7,8-HxCDD	0.297			36:06	1.21	A
1,2,3,7,8,9-HxCDD	ND	0.142				
1,2,3,4,6,7,8-HpCDD	1.56			39:09	0.96	A
OCDD	12.3			43:01	0.91	
2,3,7,8--TCDF	ND	0.116				
1,2,3,7,8-PeCDF	0.0943			32:46	1.53	A
2,3,4,7,8-PeCDF	0.128			33:22	1.43	A
1,2,3,4,7,8-HxCDF	EMPC	0.0648	0.0884	35:21	1.55	
1,2,3,6,7,8-HxCDF	0.0707			35:27	1.15	A
2,3,4,6,7,8-HxCDF	0.104			35:53	1.06	A
1,2,3,7,8,9-HxCDF	ND	0.0868				
1,2,3,4,6,7,8-HpCDF	0.242			37:59	1.13	A
1,2,3,4,7,8,9-HpCDF	ND	0.193				
OCDF	EMPC	0.337	0.523	43:17	0.81	
Total TCDDs	0.246					
Total PeCDDs	0.194					
Total HxCDDs	0.660					
Total HpCDDs	3.08					
Total TCDFs	ND	0.116				
Total PeCDFs	0.222		0.371			
Total HxCDFs	0.336		0.676			
Total HpCDFs	0.472					
ITEF TEQ (ND=0)	0.489		0.499			
ITEF TEQ (ND=½)	0.519		0.525			

Client Information

Project Name:	SWP-Wilmington	**Sample Information**		
Sample ID:	Bio-15-Comp	Matrix:	Tissue	
		Weight / Volume:	10.18	Grams
Laboratory Information		Solids / Lipids:	6.88	%
		Original pH :	NA	
Project ID:	G440-12	Batch ID:	WG5402	
Sample ID:	19179			
		Filename:	a09may01a_2-7	
Collection Date/Time:	25-Apr-01 11:00	Retchk:	a09may01a-15	
Receipt Date:	26-Apr-01	Begin ConCal:	a09may01a-15	
Extraction Date:	03-May-01			
Analysis Date:	10-May-01	Initial Cal:	m1613-052699m	

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Method 1613

Bio-15-Comp

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.33	66.4	30:14	0.82	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.21	60.5	33:33	1.53	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.42	70.9	36:01	1.16	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	1.85	92.3	36:06	1.16	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.37	68.4	39:08	1.12	
$^{13}C_{12}$-OCDD	4	2.32	58.0	43:00	0.77	
$^{13}C_{12}$-2,3,7,8-TCDF	2	1.05	52.7	29:18	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.41	70.4	32:46	1.53	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	1.06	52.9	33:22	1.58	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.55	77.5	35:20	0.51	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.78	89.1	35:26	0.5	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.50	75.1	35:53	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	1.86	92.8	36:36	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.66	83.1	37:59	0.47	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	1.69	84.3	39:45	0.49	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.52	64.4	30:15		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:31	0.84	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:53	0.51	

Client Information

Project Name: SWP-Wilmington
Sample ID: Bio-15-Comp

Laboratory Information

Project ID: G440-12
Sample ID: 19179

Collection Date/Time: 25-Apr-01 11:00
Receipt Date: 26-Apr-01
Extraction Date: 03-May-01
Analysis Date: 10-May-01

Sample Information

Matrix: Tissue
Weight / Volume: 10.18 Grams
Solids / Lipids: 6.88 %
Original pH : NA
Batch ID: WG5402

Filename: a09may01a_2-7
Retchk: a09may01a-15
Begin ConCal: a09may01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 16May01

Reviewed by: [illegible]
Date: 5/16/01

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Method 1613

Bio-15-Comp-Dup

Southern Wood Piedmont

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.164				
1,2,3,7,8-PeCDD	EMPC	0.120	0.142	33:34	1.1	
1,2,3,4,7,8-HxCDD	ND	0.133				
1,2,3,6,7,8-HxCDD	0.177			36:06	1.22	A
1,2,3,7,8,9-HxCDD	ND	0.124				
1,2,3,4,6,7,8-HpCDD	1.51			39:09	1	A
OCDD	12.5			43:01	0.86	
2,3,7,8--TCDF	ND	0.152				
1,2,3,7,8-PeCDF	ND	0.0666				
2,3,4,7,8-PeCDF	0.114			33:23	1.33	A
1,2,3,4,7,8-HxCDF	ND	0.0933				
1,2,3,6,7,8-HxCDF	ND	0.0944				
2,3,4,6,7,8-HxCDF	ND	0.120				
1,2,3,7,8,9-HxCDF	ND	0.128				
1,2,3,4,6,7,8-HpCDF	0.347			37:59	0.95	A
1,2,3,4,7,8,9-HpCDF	ND	0.239				
OCDF	EMPC	0.376	0.545	43:17	0.87	
Total TCDDs	ND	0.164				
Total PeCDDs	ND	0.353	0.142			
Total HxCDDs	0.420					
Total HpCDDs	3.63					
Total TCDFs	ND	0.152				
Total PeCDFs	0.114		0.192			
Total HxCDFs	0.425					
Total HpCDFs	0.347		0.534			
ITEF TEQ (ND=0)	0.106		0.177			
ITEF TEQ (ND=½)	0.263		0.304			

Client Information

Project Name:	SWP-Wilmington		
Sample ID:	Bio-15-Comp-Dup		

Laboratory Information

Project ID:	G440-12		
Sample ID:	19180		
Collection Date/Time:	25-Apr-01 11:00		
Receipt Date:	26-Apr-01		
Extraction Date:	03-May-01		
Analysis Date:	10-May-01		

Sample Information

Matrix:	Tissue	
Weight / Volume:	10.72	Grams
Solids / Lipids:	7.65	%
Original pH :	NA	
Batch ID:	WG5402	
Filename:	a09may01a_2-8	
Retchk:	a09may01a-15	
Begin ConCal:	a09may01a-15	
Initial Cal:	m1613-052699m	

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Method 1613

Bio-15-Comp-Dup

Southern Wood Piedmont

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.26	62.8	30:14	0.83	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.18	59.0	33:33	1.57	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.37	68.6	36:01	1.19	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	1.74	87.2	36:06	1.17	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.29	64.7	39:08	1.12	
$^{13}C_{12}$-OCDD	4	2.12	53.0	43:00	0.76	
$^{13}C_{12}$-2,3,7,8-TCDF	2	1.00	49.8	29:18	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.34	67.2	32:46	1.57	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	0.99	49.3	33:21	1.59	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.45	72.5	35:20	0.48	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.67	83.3	35:26	0.51	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.41	70.3	35:53	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	1.73	86.4	36:36	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.57	78.6	37:59	0.47	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	1.61	80.5	39:45	0.48	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.50	63.0	30:16		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:31	0.83	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:53	0.51	

Client Information

Project Name: SWP-Wilmington
Sample ID: Bio-15-Comp-Dup

Laboratory Information

Project ID: G440-12
Sample ID: 19180

Collection Date/Time: 25-Apr-01 11:00
Receipt Date: 26-Apr-01
Extraction Date: 03-May-01
Analysis Date: 10-May-01

Sample Information

Matrix: Tissue
Weight / Volume: 10.72 Grams
Solids / Lipids: 7.65 %
Original pH : NA
Batch ID: WG5402

Filename: a09may01a_2-8
Retchk: a09may01a-15
Begin ConCal: a09may01a-15

Initial Cal: m1613-052699m

Analyzed by: HMP
Date: 16May01

Reviewed by: [illegible]
Date: 5/16/01

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Method 1613 - QC BLANK Results

LMB

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.169				
1,2,3,7,8-PeCDD	ND	0.133				
1,2,3,4,7,8-HxCDD	ND	0.104				
1,2,3,6,7,8-HxCDD	0.0960			36:07	1.17	A
1,2,3,7,8,9-HxCDD	0.124			36:20	1.17	A
1,2,3,4,6,7,8-HpCDD	0.720			39:09	1.17	A
OCDD	3.33			43:03	0.87	A
2,3,7,8--TCDF	ND	0.156				
1,2,3,7,8-PeCDF	EMPC	0.0668	0.116	32:48	1.24	
2,3,4,7,8-PeCDF	0.140			33:22	1.56	A
1,2,3,4,7,8-HxCDF	0.130			35:22	1.23	A
1,2,3,6,7,8-HxCDF	0.114			35:27	1.41	A
2,3,4,6,7,8-HxCDF	0.148			35:55	1.36	A
1,2,3,7,8,9-HxCDF	0.154			36:38	1.18	A
1,2,3,4,6,7,8-HpCDF	ND	0.134				
1,2,3,4,7,8,9-HpCDF	ND	0.185				
OCDF	EMPC	0.204	0.0840	43:19	0.82	
Total TCDDs	ND	0.246				
Total PeCDDs	ND	0.418				
Total HxCDDs	0.220					
Total HpCDDs	1.13					
Total TCDFs	ND	0.156				
Total PeCDFs	0.140		0.256			
Total HxCDFs	0.546					
Total HpCDFs	ND	0.158				
ITEF TEQ (ND=0)	0.157		0.163			
ITEF TEQ (ND=½)	0.291		0.295			

Laboratory Information

Sample ID: WG5402-1

Extraction Date: 03-May-01
Analysis Date: 07-May-01

Sample Information

Matrix:	Tissue	
Weight / Volume:	10.00	Grams
Solids / Lipids:	N/A	%
Original pH :	NA	
Batch ID:	WG5402	
Filename:	a07may01a-4	
Retchk:	a07may01a-1	
Begin ConCal:	a07may01a-1	
Initial Cal:	m1613-052699m	

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Method 1613 - QC BLANK Results

LMB

Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.21	60.7	30:15	0.8	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.19	59.7	33:34	1.52	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.40	69.8	36:02	1.19	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	1.60	79.9	36:07	1.17	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.45	72.5	39:09	1.09	
$^{13}C_{12}$-OCDD	4	2.95	73.7	43:02	0.84	
$^{13}C_{12}$-2,3,7,8-TCDF	2	1.05	52.6	29:18	0.82	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.37	68.4	32:46	1.55	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	1.06	53.2	33:22	1.56	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.36	68.0	35:21	0.50	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	1.52	76.2	35:26	0.5	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.30	65.2	35:54	0.49	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	1.77	88.6	36:37	0.51	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.65	82.5	37:59	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	1.78	88.8	39:46	0.46	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.46	56.9	30:17		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:32	0.82	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:54	0.49	

Laboratory Information

Sample ID: WG5402-1

Extraction Date: 03-May-01
Analysis Date: 07-May-01

Analyzed by: HMP
Date: 14May01

Sample Information

Matrix:	Tissue	
Weight / Volume:	10.00	Grams
Solids / Lipids:	N/A	%
Original pH :	NA	
Batch ID:	WG5402	
Filename:	a07may01a-4	
Retchk:	a07may01a-1	
Begin ConCal:	a07may01a-1	
Initial Cal:	m1613-052699m	

Reviewed by: [illegible]
Date: 5/14/01

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Method 1613 - QC BLANK Results

LMB

Analytical Data Summary Sheet

Analyte	Amount (pg/g)	EDL (pg/g)	EMPC (pg/g)	RT (min.)	Ratio	Qualifier
2,3,7,8--TCDD	ND	0.130				
1,2,3,7,8-PeCDD	EMPC	0.134	0.122	33:34	1.09	
1,2,3,4,7,8-HxCDD	ND	0.136				
1,2,3,6,7,8-HxCDD	ND	0.128				
1,2,3,7,8,9-HxCDD	ND	0.120				
1,2,3,4,6,7,8-HpCDD	0.416			39:09	1.05	A
OCDD	1.13			43:01	0.83	A
2,3,7,8--TCDF	ND	0.0946				
1,2,3,7,8-PeCDF	0.0780			32:46	1.32	A
2,3,4,7,8-PeCDF	0.134			33:22	1.34	A
1,2,3,4,7,8-HxCDF	0.154			35:21	1.26	A
1,2,3,6,7,8-HxCDF	0.118			35:27	1.26	A
2,3,4,6,7,8-HxCDF	0.140			35:54	1.13	A
1,2,3,7,8,9-HxCDF	0.122			36:37	1.08	A
1,2,3,4,6,7,8-HpCDF	0.252			37:59	1.02	A
1,2,3,4,7,8,9-HpCDF	ND	0.126				
OCDF	EMPC	0.228	0.260	43:18	0.79	
Total TCDDs	ND	0.314				
Total PeCDDs	ND	0.438	0.122			
Total HxCDDs	ND	0.602				
Total HpCDDs	0.676					
Total TCDFs	ND	0.0946	0.276			
Total PeCDFs	0.320		0.392			
Total HxCDFs	0.764		0.864			
Total HpCDFs	0.252					
ITEF TEQ (ND=0)	0.132		0.193			
ITEF TEQ (ND=½)	0.256		0.283			

Laboratory Information

Sample ID: WG5416-1

Extraction Date: 11-May-01
Analysis Date: 14-May-01

Sample Information

Matrix: Tissue
Weight / Volume: 10.00 Grams
Solids / Lipids: NA %
Original pH : NA
Batch ID: WG5416

Filename: a14may01a-5
Retchk: a14may01a-1
Begin ConCal: a14may01a-1

Initial Cal: m1613-052699m

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Method 1613 - QC BLANK Results

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Analytical Data Summary Sheet

Labeled Standard	Expected Amount (ng)	Measured Amount (ng)	Percent Recovery (%)	RT (min.)	Ratio	Qualifier
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	2	1.80	90.2	30:14	0.79	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	2	1.63	81.3	33:33	1.55	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	2	1.72	85.8	36:01	1.19	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	2	2.27	113.5	36:05	1.17	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	2	1.61	80.5	39:08	1.08	
$^{13}C_{12}$-OCDD	4	2.99	74.9	43:01	0.86	
$^{13}C_{12}$-2,3,7,8-TCDF	2	2.04	101.8	29:18	0.81	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	2	1.79	89.5	32:46	1.56	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	2	1.88	94.1	33:22	1.57	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	2	1.80	89.9	35:20	0.50	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	2	2.15	107.6	35:26	0.5	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	2	1.94	96.8	35:53	0.51	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	2	2.03	101.4	36:36	0.52	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	2	1.99	99.4	37:59	0.46	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	2	2.00	100.0	39:44	0.44	
Cleanup Standards						
$^{37}Cl_4$-2,3,7,8-TCDD	0.8	0.70	87.4	30:15		
Injection Standards						
$^{13}C_{12}$-1,2,3,4-TCDD	2			29:31	0.81	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	2			35:53	0.51	

Laboratory Information

Sample ID: WG5416-1

Extraction Date: 11-May-01
Analysis Date: 14-May-01

Analyzed by: HMP
Date: 15May01

Sample Information

Matrix: Tissue
Weight / Volume: 10.00 Grams
Solids / Lipids: NA %
Original pH : NA
Batch ID: WG5416

Filename: a14may01a-5
Retchk: a14may01a-1
Begin ConCal: a14may01a-1

Initial Cal: m1613-052699m

Reviewed by: [illegible]
Date: 5/15/01

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Analytical Results
for
Ongoing Precision Result (OPR)

Analyte	Spiked	AMT	REC	Range pg/ul		Flag
	pg/ul	pg/ul	%	Lower	Upper	
2,3,7,8-TCDD	10.0	9.35	93.5	6.7	15.8	
1,2,3,7,8-PeCDD	50.0	52.8	106	35.0	71.0	
1,2,3,4,7,8-HxCDD	50.0	43.0	85.9	35.0	82.0	
1,2,3,6,7,8-HxCDD	50.0	46.6	93.2	38.0	67.0	
1,2,3,7,8,9-HxCDD	50.0	51.8	104	32.0	81.0	
1,2,3,4,6,7,8-HpCDD	50.0	55.5	111	35.0	70.0	
OCDD	100	104	104	78.0	144	
2,3,7,8-TCDF	10.0	9.34	93.4	7.5	15.8	
1,2,3,7,8-PeCDF	50.0	47.6	95.3	40.0	67.0	
2,3,4,7,8-PeCDF	50.0	45.8	91.7	34.0	80.0	
1,2,3,4,7,8-HxCDF	50.0	49.4	98.7	36.0	67.0	
1,2,3,6,7,8-HxCDF	50.0	49.3	98.6	42.0	65.0	
2,3,4,6,7,8-HxCDF	50.0	52.7	105	35.0	78.0	
1,2,3,7,8,9-HxCDF	50.0	44.5	89.0	39.0	65.0	
1,2,3,4,6,7,8-HpCDF	50.0	46.1	92.1	41.0	61.0	
1,2,3,4,7,8,9-HpCDF	50.0	43.7	87.4	39.0	69.0	
OCDF	100	104	104	63.0	170	

= Outside range limits
* = Ion Ratio Out

QC Information

OPR Project No:	WG5402
Extraction Date:	03-May-01
Analysis Date:	9-MAY-01
Method:	1613

File Information

OPR Filename :	a08may01a_2-1
Retchk:	a08may01a-15
Begin ConCal:	a08may01a-15
Initial Cal:	m1613-052699m

Sample Information

Matrix: Tissue

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Analytical Results
for
Ongoing Precision Result (OPR)

Labeled Standard	Spiked pg/ul	AMT pg/ul	REC %	Range pg/ul Lower	Range pg/ul Upper	Flag
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	100	56.8	56.8	20	175	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	100	59.8	59.8	21	227	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	100	67.8	67.8	21	193	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	100	82.7	82.7	25	163	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	100	63.8	63.8	26	166	
$^{13}C_{12}$-OCDD	200	115	57.6	26	397	
$^{13}C_{12}$-2,3,7,8-TCDF	100	47.7	47.7	22	152	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	100	74.1	74.1	21	192	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	100	51.4	51.4	13	328	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	100	73.1	73.1	19	202	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	100	79.5	79.5	21	159	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	100	66.2	66.2	22	176	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	100	90.0	90.0	17	205	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	100	79.1	79.1	21	158	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	100	78.5	78.5	20	186	
Cleanup Standards						
$^{37}C_{14}$-2,3,7,8-TCDD	40.0	21.4	53.6	12.4	76.4	

QC Information

OPR Project No: WG5402
Extraction Date: 03-May-01
Analysis Date: 9-MAY-01
Method: 1613

File Information

OPR Filename : a08may01a_2-1
Retchk: a08may01a-15
Begin ConCal: a08may01a-15
Initial Cal: m1613-052699m

Sample Information

Matrix: Tissue

Reviewed by: [signature]

Date Reviewed: 5/14/01

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Analytical Results
for
Ongoing Precision Result (OPR)

Analyte	Spiked pg/ul	AMT pg/ul	REC %	Range pg/ul Lower	Range pg/ul Upper	Flag
2,3,7,8-TCDD	10.0	9.86	98.6	6.7	15.8	
1,2,3,7,8-PeCDD	50.0	57.6	115	35.0	71.0	
1,2,3,4,7,8-HxCDD	50.0	49.7	99.3	35.0	82.0	
1,2,3,6,7,8-HxCDD	50.0	50.7	101	38.0	67.0	
1,2,3,7,8,9-HxCDD	50.0	48.4	96.7	32.0	81.0	
1,2,3,4,6,7,8-HpCDD	50.0	60.1	120	35.0	70.0	
OCDD	100	113	113	78.0	144.0	
2,3,7,8-TCDF	10.0	10.4	104	7.5	15.8	
1,2,3,7,8-PeCDF	50.0	53.3	107	40.0	67.0	
2,3,4,7,8-PeCDF	50.0	50.2	100	34.0	80.0	
1,2,3,4,7,8-HxCDF	50.0	54.5	109	36.0	67.0	
1,2,3,6,7,8-HxCDF	50.0	55.1	110	42.0	65.0	
2,3,4,6,7,8-HxCDF	50.0	58.2	116	35.0	78.0	
1,2,3,7,8,9-HxCDF	50.0	49.4	98.8	39.0	65.0	
1,2,3,4,6,7,8-HpCDF	50.0	50.4	101	41.0	61.0	
1,2,3,4,7,8,9-HpCDF	50.0	47.2	94.3	39.0	69.0	
OCDF	100	122	122	63.0	170.0	

= Outside range limits
* = Ion Ratio Out

QC Information

OPR Project No:	WG5416
Extraction Date:	11-May-01
Analysis Date:	14-MAY-01
Method:	1613

Sample Information

Matrix:	Tissue

File Information

OPR Filename :	a14may01a-4
Retchk:	a14may01a-1
Begin ConCal:	a14may01a-1
Initial Cal:	m1613-052699m

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Analytical Results
for
Ongoing Precision Result (OPR)

Labeled Standard	Spiked pg/ul	AMT pg/ul	REC %	Range pg/ul Lower	Range pg/ul Upper	Flag
Extraction Standards						
$^{13}C_{12}$-2,3,7,8-TCDD	100	86.5	86.5	20	175	
$^{13}C_{12}$-1,2,3,7,8-PeCDD	100	81.9	81.9	21	227	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	100	85.7	85.7	21	193	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	100	113	113	25	163	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	100	73.9	73.9	26	166	
$^{13}C_{12}$-OCDD	200	133	66.7	26	397	
$^{13}C_{12}$-2,3,7,8-TCDF	100	96.4	96.4	22	152	
$^{13}C_{12}$-1,2,3,7,8-PeCDF	100	89.3	89.3	21	192	
$^{13}C_{12}$-2,3,4,7,8-PeCDF	100	95.4	95.4	13	328	
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	100	78.4	78.4	19	202	
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	100	94.6	94.6	21	159	
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	100	86.8	86.8	22	176	
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	100	93.4	93.4	17	205	
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	100	90.0	90.0	21	158	
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	100	91.8	91.8	20	186	
Cleanup Standards						
$^{37}C_{14}$-2,3,7,8-TCDD	40.0	33.6	84.1	12.4	76.4	

QC Information

OPR Project No:	WG5416
Extraction Date:	11-May-01
Analysis Date:	14-MAY-01
Method:	1613

File Information

OPR Filename :	a14may01a-4
Retchk:	a14may01a-1
Begin ConCal:	a14may01a-1
Initial Cal:	m1613-052699m

Sample Information

Matrix: Tissue

Reviewed by: [signature]

Date Reviewed: 5/15/01

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PARADIGM ANALYTICAL LABORATORIES, INC.
2627 Northchase Parkway SE, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC# 21698

Page 1 of 1

Client: Southern Wood Piedmont
Address: P.O. Box 5447
Address: Spartanburg, SC 29304
Quote #:

Project ID: SWP-Wilmington
Contact: Bill Arrants
Phone: 864-599-1070
Fax: 864-599-1087

Date: 4/23/01
Turnaround: Standard
Job Number:
P.O. Number:

Report To: Sandra Watson
P.O. Box 5447
Spartanburg, SC 29304
Invoice To: Sandra Watson

Sample ID	Date	Time	Matrix	Preservatives: ice				Analyses: Dioxins/Furans Tetra-octa									Comments: Please specify any special reporting requirements: G440-12
~~Bio-18 comp~~ Bio-16 comp ✓	4/23/01	11:30	Fish	↓				↓									* Wilmington Site Specific
Bio-12A ✓	↓	11:30	Fish	↓				↓									Dioxin/Furan List
Bio-12B ✓	↓	11:30	Fish	↓				↓									
Bio-10A	↓	14:00	Fish	↓				↓									Method 1613
Bio-10B ✓	↓	14:00	Fish	↓				↓									
Bio-10C	↓	14:00	Fish	↓				↓									* Hold and Greg Kuntz
Bio-10D ✓	↓	14:00	Fish	↓				↓									will call and give directions
Bio-10E ✓	↓	14:00	Fish	↓				↓									on what samples to
																	analyze and provide
																	SWP Log numbers.

Relinquished By	Date	Time	Received By	Date	Time	Temperature	State Certification Requested
Gregory B. Kuntz	4/24/01	8:00	Julie Johnson	4/24/01	0800	walk in on ice	NC ____ SC ____ Other ____
							SEE REVERSE FOR TERMS AND CONDITIONS

53

ORIGINAL

PARADIGM ANALYTICAL LABORATORIES, INC.
2627 Northchase Parkway SE, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

RECEIVED MAY 17 2001 SOUTHERN WOOD PIEDMONT

COC# 24317

Page 1 of 1

Client: Southern Wood Piedmont
Address: P.O. Box 5447
Address: Spartanburg, SC 29304
Quote #:

Project ID: SWP-Wilmington
Contact: Bill Arrants
Phone: 864-599-1070
Fax: 864-599-1087

Date: 4/24/01
Turnaround: Standard
Job Number:
P.O. Number:

Report To: Sandra Watson
P.O. Box 5447
Spartanburg, SC 29304
Invoice To: Sandra Watson

Sample ID	Date	Time	Matrix	Preservatives: Ice				Analyses: Dioxins/Furans Tetra-Octa									Comments: Please specify any special reporting requirements
																	G440-12
Bio-13A	4/24/01	10:30	Fish	↓				↓									* Wilmington Site-Specific
Bio-13B	↓	↓	↓	↓				↓									Dioxin/Furan List
Bio-13C	↓	↓	↓	↓				↓									
Bio-13D	↓	↓	↓	↓				↓									Method 1613
Bio-13E	↓	↓	↓	↓				↓									EDD
Bio-13B-Dup	↓	↓	↓	↓				↓									* Hold and Greg Kuntz
Bio-13E-Dup	↓	↓	↓	↓				↓									will call and give directions
Bio-14-Comp	↓	↓	↓	↓				↓									on what samples to analyze
																	and provide SWP Log
																	numbers.

Relinquished By	Date	Time	Received By	Date	Time	Temperature	State Certification Requested
Gregory B. Kuntz	4/25/01	8:00	Julie Johnson	4/25/01	0800	on ice	NC X SC ____ Other ____
							SEE REVERSE FOR TERMS AND CONDITIONS

54

ORIGINAL

RECEIVED
MAY 1 7 2001
SOUTHERN WOOD PIEDMONT

PARADIGM ANALYTICAL LABORATORIES, INC.
2627 Northchase Parkway SE, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC# 24316

Page 1 of 1

Client: Southern Wood Piedmont
Address: P.O. Box 5447
Address: Spartanburg, SC 29304
Quote #:

Project ID: SWP-Wilmington
Contact: Bill Arrants
Phone: 864-599-1070
Fax: 864-599-1087

Date: 4/25/01
Turnaround: Standard
Job Number:
P.O. Number:

Report To: Sandra Watson
P.O. Box 5447
Spartanburg, SC 29304
Invoice To: Sandra Watson

Sample ID	Date	Time	Matrix	Preservatives: ICE				Analyses: Dioxin/Furan Tetra-Octa									Comments: Please specify any special reporting requirements
																	G440-12
Bio-11 A	4/25/01	11:00	Fish	↓				↓									* Wilmington Site Specific
Bio-11B	↓	↓	↓	↓				↓									Dioxin-Furan List
Bio-11C	↓	↓	↓	↓				↓									Method 1613
Bio-11C-Dup	↓	↓	↓	↓				↓									EDD
Bio-15-Comp	↓	↓	↓	↓				↓									* Hold and Greg Kuntz
Bio-15-Comp-Dup	↓	↓	↓	↓				↓									will call and give directions
																	on what sampler to
																	analyze and provide
																	SWP Log numbers.

Relinquished By	Date	Time	Received By	Date	Time	Temperature	State Certification Requested
Dreyer B. Kurtz	4/26/01	11:30	Julie Johnson	4/26/01	1130	on ice	NC X SC ____ Other ____
							SEE REVERSE FOR TERMS AND CONDITIONS

ORIGINAL

SEVERN TRENT SERVICES
STL Savannah
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LOG NO: S0-08078
Received: 28 NOV 00
Reported: 13 DEC 00

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

Requisition: 979007.A0-25

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 163201213

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
08078-1	Rolloff 112700 SWP Log # 17233	11-27-00/14:50

PARAMETER	08078-1
Semivolatile Organics (8270)	
Naphthalene, mg/kg dw	440
Acenaphthene, mg/kg dw	260
2,4-Dimethylphenol, mg/kg dw	ND
Fluorene, mg/kg dw	270
Phenanthrene, mg/kg dw	560
Anthracene, mg/kg dw	140
Pyrene, mg/kg dw	220
Chrysene, mg/kg dw	49
Benzo(a)anthracene, mg/kg dw	51
Benzo(b)fluoranthene, mg/kg dw	20J
Benzo(k)fluoranthene, mg/kg dw	30J
Benzo(a)pyrene, mg/kg dw	20J
Indeno(1,2,3-cd)pyrene, mg/kg dw	8.1J
Dibenzo(a,h)anthracene, mg/kg dw	ND
Phenol, mg/kg dw	ND
2,3,4,6-Tetrachlorophenol, mg/kg dw	ND
2,4,6-Trichlorophenol, mg/kg dw	ND
Pentachlorophenol, mg/kg dw	ND

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STL Savannah

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CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 163201213

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
08078-1	Rolloff 112700 SWP Log # 17233	11-27-00/14:50

PARAMETER	08078-1
Cl-Dioxin/Furans (8280)	
Tetra CDD, mg/kg dw	ND
Tetra CDF, mg/kg dw	ND
Penta CDD, mg/kg dw	ND
Penta CDF, mg/kg dw	ND
Hexa CDD, mg/kg dw	0.0019
Hexa CDF, mg/kg dw	ND
pH (9045), units	8.32
Arsenic (TCLP) (6010)	
Arsenic (TCLP), mg/kg dw	ND
Chromium (TCLP) (6010)	
Chromium (TCLP), mg/kg dw	ND
Percent Solids	91

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CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 163201213

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
08078-2	Drumwater 112700 SWP Log# 17234	11-27-00/14:20

PARAMETER	08078-2
Semivolatiles (TCLP)	
Hexachlorobenzene (TCLP), mg/l	ND
Pentachlorophenol (TCLP), mg/l	0.28
Pyridine (TCLP), mg/l	ND
2,4,5-Trichlorophenol (TCLP), mg/l	0.019J
2,4,6-Trichlorophenol (TCLP), mg/l	0.020J
Cresol (ortho) (TCLP), mg/l	0.24
Cresol m & p (TCLP), mg/l	0.41
Volatiles (TCLP)	
Benzene (TCLP), mg/l	0.0067J
Methyl ethyl ketone (TCLP), mg/l	ND
Cl-Dioxin/Furans (8280)	
Tetra CDD, mg/l	ND
Tetra CDF, mg/l	ND
Penta CDD, mg/l	ND
Penta CDF, mg/l	ND
Hexa CDD, mg/l	ND
Hexa CDF, mg/l	ND
Arsenic (TCLP) (6010)	
Arsenic (TCLP), mg/l	ND
Chromium (TCLP) (6010)	
Chromium (TCLP), mg/l	0.017B

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Project: WILMINGTON
Sampled By: Client
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
08078-2	Drumwater 112700 SWP Log# 17234	11-27-00/14:20

PARAMETER	08078-2
Lead (TCLP) (6010)	
Lead (TCLP), mg/l	0.020B
Mercury in TCLP Extract (7470)	
Mercury (TCLP), mg/l	ND
pH (9040), units	10

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Project: WILMINGTON
Sampled By: Client
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , OIL SAMPLES	DATE/ TIME SAMPLED
08078-3	Drumoil 112700 SWP LOG# 17235	11-27-00/14:45

PARAMETER	08078-3
Volatiles (TCLP)	
Benzene (TCLP), mg/l	14
Methyl ethyl ketone (TCLP), mg/l	ND
Semivolatiles (TCLP)	
Hexachlorobenzene (TCLP), mg/l	ND
Pentachlorophenol (TCLP), mg/l	120J
Pyridine (TCLP), mg/l	ND
2,4,5-Trichlorophenol (TCLP), mg/l	ND
2,4,6-Trichlorophenol (TCLP), mg/l	ND
Cresol (ortho) (TCLP), mg/l	ND
Cresol m & p (TCLP), mg/l	84J
Arsenic (TCLP) (6010)	
Arsenic (TCLP), mg/l	2.6
Chromium (TCLP) (6010)	
Chromium (TCLP), mg/l	0.40B
Lead (TCLP) (6010)	
Lead (TCLP), mg/l	0.54B
Mercury in TCLP Extract (7470)	
Mercury (TCLP), mg/l	0.075
BTU (D240-76), btu/lb	18000

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Sampled By: Client
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , OIL SAMPLES	DATE/ TIME SAMPLED
08078-3	Drumoil 112700 SWP LOG# 17235	11-27-00/14:45

PARAMETER	08078-3
Ignitability-flash point (1010), degrees-F	>140
Water (Karl Fisher)	35 %
pH (9040), units	6.0
Cl-Dioxin/Furans (8280)	
Tetra CDD, mg/l	ND
Tetra CDF, mg/l	ND
Penta CDD, mg/l	ND
Penta CDF, mg/l	ND
Hexa CDD, mg/l	ND
Hexa CDF, mg/l	ND

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Project: WILMINGTON
Sampled By: Client
Code: 163201213

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
08078-4	Method Blank	
08078-5	Detection Limits	
08078-6	Accuracy (mean % recovery)	
08078-7	Precision (%RPD)	
08078-8	Analyst Initials	

PARAMETER	08078-4	08078-5	08078-6	08078-7	08078-8
Semivolatile Organics (8270)					
Naphthalene, mg/kg dw	ND	0.33	64 %	*	ES
Acenaphthene, mg/kg dw	ND	0.33	79 %	---	ES
2,4-Dimethylphenol, mg/kg dw	ND	0.33	76 %	---	ES
Fluorene, mg/kg dw	ND	0.33	115 %	---	ES
Phenanthrene, mg/kg dw	ND	0.33	224 %	---	ES
Anthracene, mg/kg dw	ND	0.33	97 %	---	ES
Pyrene, mg/kg dw	ND	0.33	88 %	---	ES
Chrysene, mg/kg dw	ND	0.33	73 %	---	ES
Benzo(a)anthracene, mg/kg dw	ND	0.33	79 %	---	ES
Benzo(b)fluoranthene, mg/kg dw	ND	0.33	82 %	---	ES
Benzo(k)fluoranthene, mg/kg dw	ND	0.33	97 %	---	ES
Benzo(a)pyrene, mg/kg dw	ND	0.33	91 %	---	ES
Indeno(1,2,3-cd)pyrene, mg/kg dw	ND	0.33	64 %	---	ES
Dibenzo(a,h)anthracene, mg/kg dw	ND	0.33	76 %	---	ES
Phenol, mg/kg dw	ND	0.33	64 %	---	ES
2,3,4,6-Tetrachlorophenol, mg/kg dw	ND	0.33	82 %	---	ES
2,4,6-Trichlorophenol, mg/kg dw	ND	0.33	76 %	---	ES
Pentachlorophenol, mg/kg dw	ND	1.7	76 %	---	ES

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
08078-4	Method Blank	
08078-5	Detection Limits	
08078-6	Accuracy (mean % recovery)	
08078-7	Precision (%RPD)	
08078-8	Analyst Initials	

PARAMETER	08078-4	08078-5	08078-6	08078-7	08078-8
Cl-Dioxin/Furans (8280)					
Tetra CDD, mg/kg dw	ND	0.00050	120 %	3 %	RB
Tetra CDF, mg/kg dw	ND	0.00050	120 %	3 %	RB
Penta CDD, mg/kg dw	ND	0.00050	116 %	3 %	RB
Penta CDF, mg/kg dw	ND	0.00050	107 %	0 %	RB
Hexa CDD, mg/kg dw	ND	0.00050	61 %	3 %	RB
Hexa CDF, mg/kg dw	ND	0.00050	98 %	4 %	RB
pH (9045), %	---	---	100 %	22 %	SS
Arsenic (TCLP) (6010)					
Arsenic (TCLP), mg/l	ND	0.20	90 %	5.6 %	BJB
Chromium (TCLP) (6010)					
Chromium (TCLP), mg/l	ND	0.20	98 %	5.1 %	BJB

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Southern Wood Piedmont (SP)
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Spartanburg, SC 29304

Requisition: 979007.A0-25

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 163201213

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
08078-9	EPA Method Numbers	
08078-10	Dates Extracted	
08078-11	Dates Analyzed	

PARAMETER	08078-9	08078-10	08078-11
Semivolatile Organics (8270)			
Naphthalene	8270C	11.30.00	12.06.00
Acenaphthene	8270C	11.30.00	12.06.00
2,4-Dimethylphenol	8270C	11.30.00	12.06.00
Fluorene	8270C	11.30.00	12.06.00
Phenanthrene	8270C	11.30.00	12.06.00
Anthracene	8270C	11.30.00	12.06.00
Pyrene	8270C	11.30.00	12.06.00
Chrysene	8270C	11.30.00	12.06.00
Benzo(a)anthracene	8270C	11.30.00	12.06.00
Benzo(b)fluoranthene	8270C	11.30.00	12.06.00
Benzo(k)fluoranthene	8270C	11.30.00	12.06.00
Benzo(a)pyrene	8270C	11.30.00	12.06.00
Indeno(1,2,3-cd)pyrene	8270C	11.30.00	12.06.00
Dibenzo(a,h)anthracene	8270C	11.30.00	12.06.00
Phenol	8270C	11.30.00	12.06.00
2,3,4,6-Tetrachlorophenol	8270C	11.30.00	12.06.00
2,4,6-Trichlorophenol	8270C	11.30.00	12.06.00
Pentachlorophenol	8270C	11.30.00	12.06.00

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Project: WILMINGTON
Sampled By: Client
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
08078-9	EPA Method Numbers	
08078-10	Dates Extracted	
08078-11	Dates Analyzed	

PARAMETER		08078-9	08078-10	08078-11
Cl-Dioxin/Furans (8280)				
Tetra CDD		8280	12.05.00	12.06.00
Tetra CDF		8280	12.05.00	12.06.00
Penta CDD		8280	12.05.00	12.06.00
Penta CDF		8280	12.05.00	12.06.00
Hexa CDD		8280	12.05.00	12.06.00
Hexa CDF		8280	12.05.00	12.06.00
pH (9045)		9045C	---	12.11.00
Arsenic (TCLP) (6010)				
Arsenic (TCLP)		6010	---	12.04.00
Chromium (TCLP) (6010)				
Chromium (TCLP),		6010	---	12.04.00

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Project: WILMINGTON
Sampled By: Client
Code: 163201213

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
08078-12	Method Blank	
08078-13	Detection Limits	
08078-14	Accuracy (mean % recovery)	
08078-15	Precision (%RPD)	
08078-16	Analyst Initals	

PARAMETER	08078-12	08078-13	08078-14	08078-15	08078-16
Semivolatiles (TCLP)					
Hexachlorobenzene (TCLP), mg/l	ND	0.050	88 %	5 %	ES
Pentachlorophenol (TCLP), mg/l	ND	0.25	70 %	7 %	ES
Pyridine (TCLP), mg/l	ND	0.25	63 %	14 %	ES
2,4,5-Trichlorophenol (TCLP), mg/l	ND	0.050	91 %	1 %	ES
2,4,6-Trichlorophenol (TCLP), mg/l	ND	0.050	87 %	1 %	ES
Cresol (ortho) (TCLP), mg/l	ND	0.050	77 %	7 %	ES
Cresol m & p (TCLP), mg/l	ND	0.050	74 %	11 %	ES
Volatiles (TCLP)					
Benzene (TCLP), mg/l	ND	0.020	113 %	5 %	RC
Methyl ethyl ketone (TCLP), mg/l	ND	0.10	88 %	23 %	RC
Cl-Dioxin/Furans (8280)					
Tetra CDD, mg/l	ND	0.0000050	122 %	16 %	RB
Tetra CDF, mg/l	ND	0.0000050	104 %	17 %	RB
Penta CDD, mg/l	ND	0.0000050	100 %	16 %	RB
Penta CDF, mg/l	ND	0.0000050	96 %	17 %	RB
Hexa CDD, mg/l	ND	0.0000050	100 %	16 %	RB
Hexa CDF, mg/l	ND	0.0000050	96 %	17 %	RB

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
08078-12	Method Blank	
08078-13	Detection Limits	
08078-14	Accuracy (mean % recovery)	
08078-15	Precision (%RPD)	
08078-16	Analyst Initals	

PARAMETER	08078-12	08078-13	08078-14	08078-15	08078-16
Arsenic (TCLP) (6010)					
Arsenic (TCLP), mg/l	ND	0.20	95 %	17 %	BJB
Chromium (TCLP) (6010)					
Chromium (TCLP), mg/l	ND	0.20	104 %	18 %	BJB
Lead (TCLP) (6010)					
Lead (TCLP), mg/l	ND	0.20	99 %	18 %	BJB
Mercury in TCLP Extract (7470)					
Mercury (TCLP), mg/l	ND	0.020	104 %	0.96 %	JWG
pH (9040), units	---	---	98 %	0.0 %	PB

SEVERN TRENT SERVICES
STL Savannah
5102 LaRoche Avenue • Savannah, GA 31404 • Tel: 912 354 7858 • Fax: 912 352 0165 • www.stl-inc.com

LOG NO: S0-08078
Received: 28 NOV 00
Reported: 13 DEC 00

Ms. Sandra Watson
Southern Wood Piedmont (SP)
P.O. Box 5447
Spartanburg, SC 29304

Requisition: 979007.A0-25

CC: Greg Kuntz-Schnabel

Project: WILMINGTON
Sampled By: Client
Code: 163201213

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
08078-17	EPA Method Numbers	
08078-18	Dates Extracted	
08078-19	Dates Analyzed	

PARAMETER	08078-17	08078-18	08078-19
Semivolatiles (TCLP)			
Hexachlorobenzene (TCLP)	8270C	12.04.00	12.07.00
Pentachlorophenol (TCLP)	8270C	12.04.00	12.07.00
Pyridine (TCLP)	8270C	12.04.00	12.07.00
2,4,5-Trichlorophenol (TCLP)	8270C	12.04.00	12.07.00
2,4,6-Trichlorophenol (TCLP)	8270C	12.04.00	12.07.00
Cresol (ortho) (TCLP)	8270C	12.04.00	12.07.00
Cresol m & p (TCLP)	8270C	12.04.00	12.07.00
Volatiles (TCLP)			
Benzene (TCLP)	8260	---	12.07.00
Methyl ethyl ketone (TCLP)	8260	---	12.07.00
Cl-Dioxin/Furans (8280)			
Tetra CDD	8280	12.04.00	12.06.00
Tetra CDF	8280	12.04.00	12.06.00
Penta CDD	8280	12.04.00	12.06.00
Penta CDF	8280	12.04.00	12.06.00
Hexa CDD	8280	12.04.00	12.06.00
Hexa CDF	8280	12.04.00	12.06.00
Arsenic (TCLP) (6010)			
Arsenic (TCLP)	6010	---	12.04.00

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Project: WILMINGTON
Sampled By: Client
Code: 163201213

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
08078-17	EPA Method Numbers	
08078-18	Dates Extracted	
08078-19	Dates Analyzed	

PARAMETER	08078-17	08078-18	08078-19
Chromium (TCLP) (6010)			
Chromium (TCLP)	6010	---	12.04.00
Lead (TCLP) (6010)			
Lead (TCLP)	6010	---	12.04.00
Mercury in TCLP Extract (7470)			
Mercury (TCLP)	7470A	---	12.06.00
pH (9040)	150.1	---	12.01.00

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Project: WILMINGTON
Sampled By: Client
Code: 163201213

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR OIL SAMPLES	DATE/ TIME SAMPLED
08078-20	Method Blank	
08078-21	Detection Limits	
08078-22	Accuracy (mean % recovery)	
08078-23	Precision (%RPD)	
08078-24	Analyst Initials	

PARAMETER	08078-20	08078-21	08078-22	08078-23	08078-24
Volatiles (TCLP)					
Benzene (TCLP), mg/l	ND	0.020	96 %	9 %	JA
Methyl ethyl ketone (TCLP), mg/l	ND	0.10	100 %	17 %	JA
Semivolatiles (TCLP)					
Hexachlorobenzene (TCLP), mg/l	ND	100	---	---	ES
Pentachlorophenol (TCLP), mg/l	ND	500	---	---	ES
Pyridine (TCLP), mg/l	ND	500	---	---	ES
2,4,5-Trichlorophenol (TCLP), mg/l	ND	100	---	---	ES
2,4,6-Trichlorophenol (TCLP), mg/l	ND	100	---	---	ES
Cresol (ortho) (TCLP), mg/l	ND	100	---	---	ES
Cresol m- & p (TCLP), mg/l	ND	100	---	---	ES
Arsenic (TCLP) (6010)					
Arsenic (TCLP), mg/l	ND	1.0	97 %	2.1 %	BJB
Chromium (TCLP) (6010)					
Chromium (TCLP), mg/l	ND	1.0	102 %	2.0 %	BJB
Lead (TCLP) (6010)					
Lead (TCLP), mg/l	ND	0.50	93 %	2.2 %	BJB

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR OIL SAMPLES	DATE/ TIME SAMPLED
08078-20	Method Blank	
08078-21	Detection Limits	
08078-22	Accuracy (mean % recovery)	
08078-23	Precision (%RPD)	
08078-24	Analyst Initials	

PARAMETER	08078-20	08078-21	08078-22	08078-23	08078-24
Mercury in TCLP Extract (7470)					
Mercury (TCLP), mg/l	ND	0.20	100 %	5.0 %	RJC
BTU (D240-76), btu/lb	---	---	110 %	---	HL
Ignitability-flash point (1010), degrees-F	>140	140	---	---	RD
Water (Karl Fisher), %	---	---	102 %	2.0 %	KM
pH (9040), units	---	---	90 %	11 %	PB
Cl-Dioxin/Furans (8280)					
Tetra CDD, mg/l	ND	0.050	124 %	6 %	RB
Tetra CDF, mg/l	ND	0.050	110 %	4 %	RB
Penta CDD, mg/l	ND	0.050	116 %	7 %	RB
Penta CDF, mg/l	ND	0.050	112 %	14 %	RB
Hexa CDD, mg/l	ND	0.050	112 %	7 %	RB
Hexa CDF, mg/l	ND	0.050	110 %	11 %	RB

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Sampled By: Client
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR OIL SAMPLES	DATE/ TIME SAMPLED
08078-25	EPA Method Numbers	
08078-26	Dates Extracted	
08078-27	Dates Analyzed	

PARAMETER	08078-25	08078-26	08078-27
Volatiles (TCLP)			
Benzene (TCLP)	8260	---	12.05.00
Methyl ethyl ketone (TCLP)	8260	---	12.05.00
Semivolatiles (TCLP)			
Hexachlorobenzene (TCLP)	8270C	11.30.00	12.06.00
Pentachlorophenol (TCLP)	8270C	11.30.00	12.06.00
Pyridine (TCLP)	8270C	11.30.00	12.06.00
2,4,5-Trichlorophenol (TCLP)	8270C	11.30.00	12.06.00
2,4,6-Trichlorophenol (TCLP)	8270C	11.30.00	12.06.00
Cresol (ortho) (TCLP)	8270C	11.30.00	12.06.00
Cresol m & p (TCLP)	8270C	11.30.00	12.06.00
Arsenic (TCLP) (6010)			
Arsenic (TCLP)	6010	---	12.06.00
Chromium (TCLP) (6010)			
Chromium (TCLP)	6010	---	12.06.00
Lead (TCLP) (6010)			
Lead (TCLP)	6010	---	12.06.00
Mercury in TCLP Extract (7470)			
Mercury (TCLP)	7470A	---	12.08.00

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Project: WILMINGTON
Sampled By: Client
Code: 163201213

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR OIL SAMPLES	DATE/ TIME SAMPLED
08078-25	EPA Method Numbers	
08078-26	Dates Extracted	
08078-27	Dates Analyzed	

PARAMETER	08078-25	08078-26	08078-27
BTU (D240-76)	240	---	12.05.00
Ignitability-flash point (1010)	1010	---	12.11.00
Water (Karl Fisher)	ASME203-75	---	12-04-00
pH (9040)	150.1	---	12.01.00
Cl-Dioxin/Furans (8280)			
Tetra CDD	8280	12.04.00	12.06.00
Tetra CDF	8280	12.04.00	12.06.00
Penta CDD	8280	12.04.00	12.06.00
Penta CDF	8280	12.04.00	12.06.00
Hexa CDD	8280	12.04.00	12.06.00
Hexa CDF	8280	12.04.00	12.06.00

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.
Methods: EPA SW-846 ND = Not Detected

Gloria D. Fulwood

Gloria D. Fulwood, Project Manager

Final Page Of Report

Serial Number U25579

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Savannah Laboratories
a division of Severn Trent Laboratories, Inc.

5102 LaRoche Avenue, Savannah, GA 31404 — Phone: (912) 354-7858 — Fax: (912) 352-0165
2846 Industrial Plaza Drive, Tallahassee, FL 32301 — Phone: (850) 878-3994 — Fax: (850) 878-9504
900 Lakeside Drive, Mobile, AL 36693 — Phone: (334) 666-6633 — Fax: (334) 666-6696
6712 Benjamin Rd., Suite 100, Tampa, FL 33634 — Phone: (813) 885-7427 — Fax: (813) 885-7049

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
SWP-Wilmington	979007.A0-25	NC
STL (LAB) PROJECT MANAGER: G. Fleetwood	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: Greg Kuntz	CLIENT PHONE	CLIENT FAX: 8037966250
CLIENT NAME: Schnabel Eng.	CLIENT EMAIL: gKuntz@Schnabel-eng.com	
CLIENT ADDRESS: 104 Corporate BLVD Suite 420		
COMPANY CONTRACTING THIS WORK (if applicable): West Columbia S.C. 29169		

PAGE ___ OF ___

STANDARD REPORT DELIVERY ○
DATE DUE ___
EXPEDITED REPORT DELIVERY (SURCHARGE) ⊗
DATE DUE 12-12-00

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ETC)	SVOC/Dioxins (soil) PH	TCLP-As/Cr (soil)	TCLP-SVOC/Dioxins (H2O) PH	TCLP-As/Cr/Hg (H2O)	TCLP-VOC (H2O)	TCLP-VOC (soil)	TCLP-SVOC (soil)	As/Cr/Pb/Hg (soil) TCLP	BTU-Flashpoint (soil)	Water-Complete PH (H2O)
								PRESERVATIVE									
								0	0	0	0	0	0	0	0	0	0
								NUMBER OF CONTAINERS SUBMITTED									
11-27-00	14:50*	Rolloff 112700 SWP#Log# 17233	C		X			1	1								
↓	14:20	Drum water 112700 SWP Log# 17234	C	X						5	1	3					
✓	14:45	Drum oil 112700 SWP Log# 17235	C				X						1	1	1	1	1

REMARKS:
Wilmington Waste Disposal Site-Specific Constituent List for: Soil - Water - Oil
Please Add PH to soil, water, and oil Analysis CF

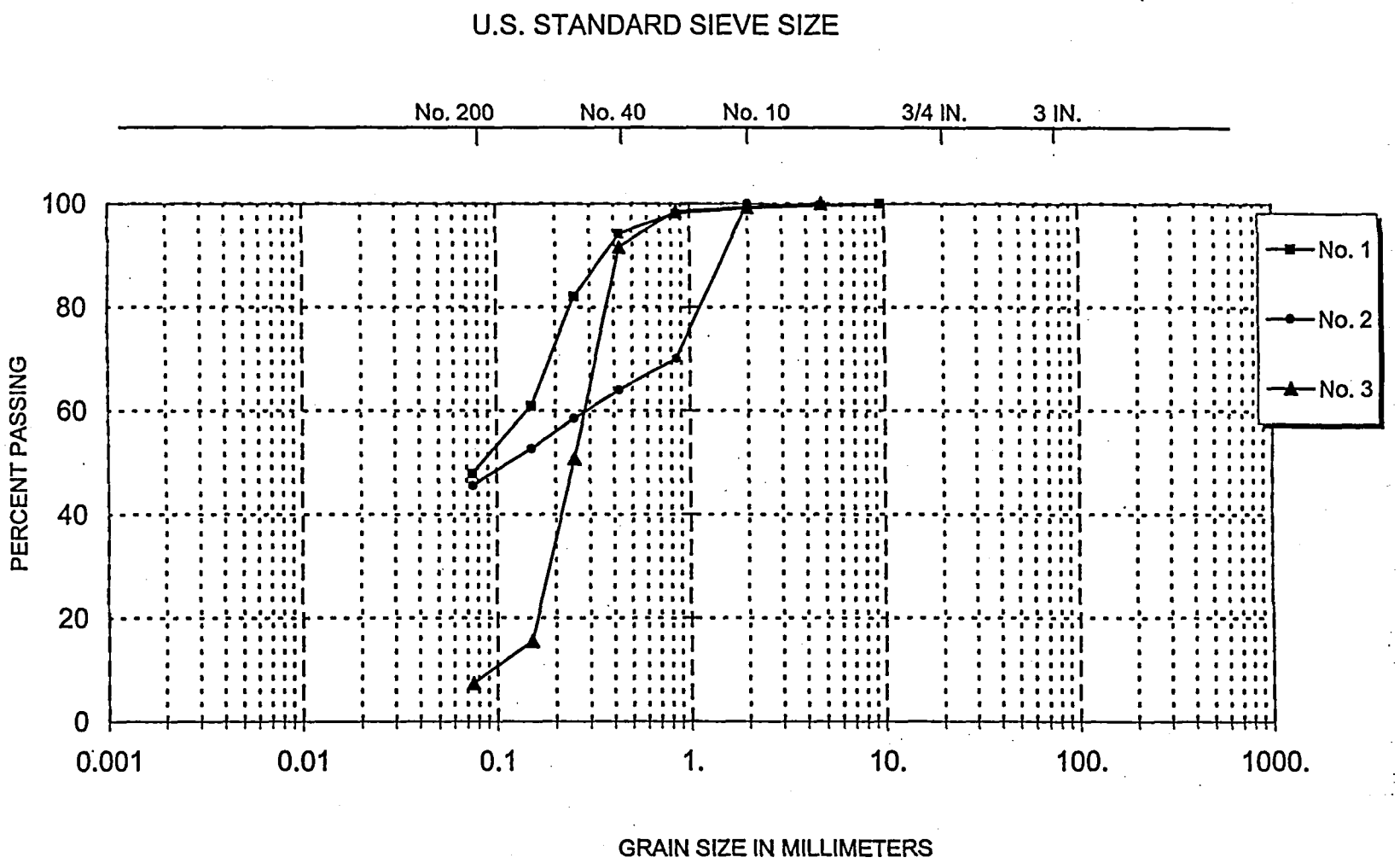
RUSH

ORIGINAL

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[illegible] EMPTY CONTAINERS	11/22/00		[illegible]	11-27-00	15:10			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	STL-SL LOG NO.	LABORATORY REMARKS:
C. [illegible]	11/28/00	8:00	YES ✓ NO		50-0807	78 Time sampled taken from sample containers. C. [illegible] 11-28-00



SILT OR CLAY	SAND			GRAVEL		COBBLES
	Fine	Medium	Coarse	Fine	Coarse	

KEY	NO.	DEPTH	DESCRIPTION OF SOIL SAMPLE TESTED	CLASS.
No. 1	SS-1	0-3"	Fine to Medium Silty Sand, 15% Organics, 0.1 ppt Salinity - Dark Brown NP NP	SM
No. 2	SS-2	0-3"	Fine to Medium Silty Sand with Peat, 37% Organics, 1 ppt Salinity - Dark Brown NP NP	SM
No. 3	SS-3	0-3"	Fine to Medium Poorly Graded Sand with Silt, 7% Organics, 0.1 ppt Salinity - Dark Brown NP NP	SP - SM

Schnabel Engineering

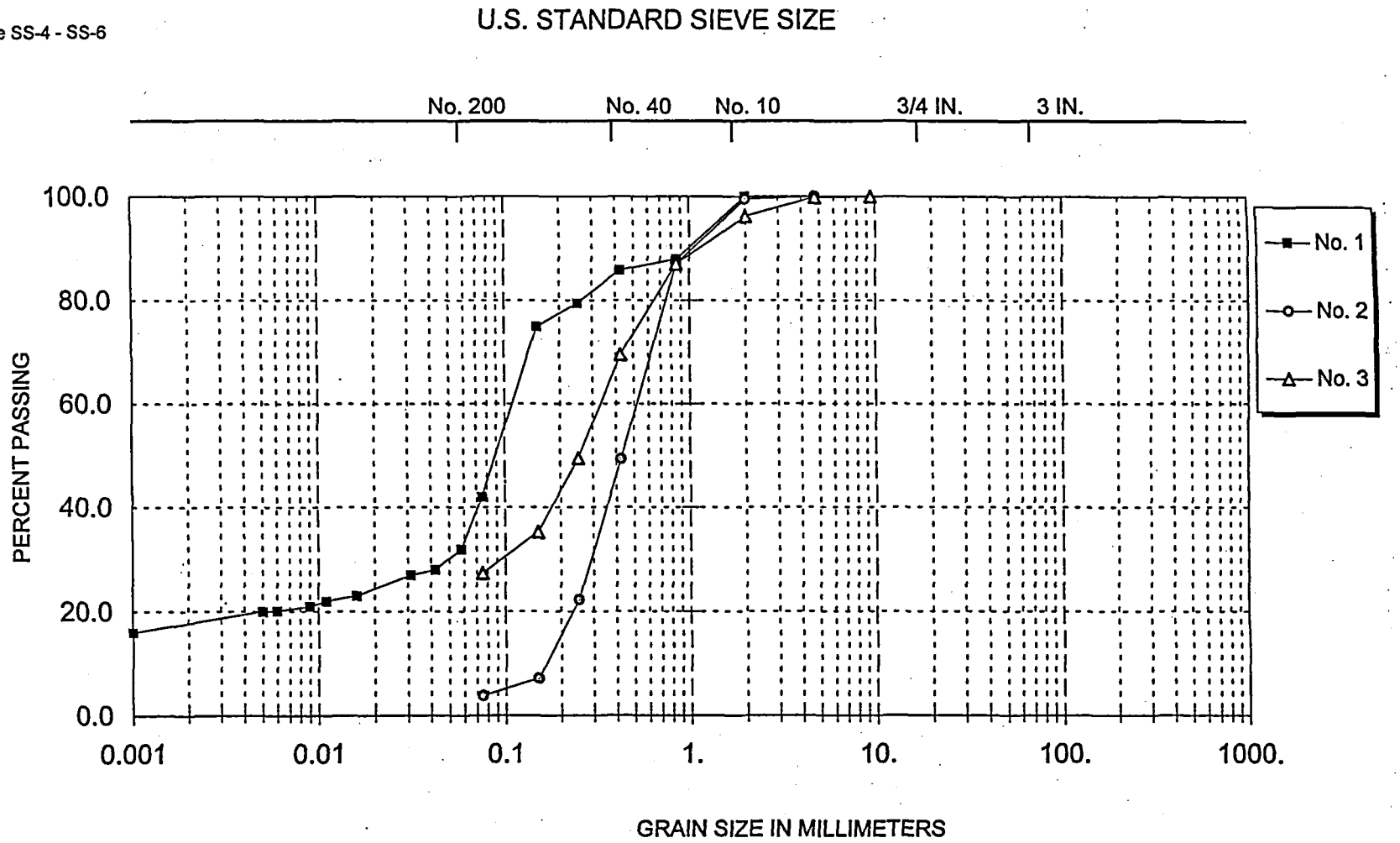
GRADATION CURVES

SWP-Wilmington
Wilmington N.C.

CONTRACT NO. 979007.A0

DATE 4/16/01

SWP Wil Sieve SS-4 - SS-6



SILT OR CLAY	SAND			GRAVEL		COBBLES
	Fine	Medium	Coarse	Fine	Coarse	

KEY	NO.	DEPTH	DESCRIPTION OF SOIL SAMPLE TESTED	CLASS.
No. 1	SS - 4	0 - 3"	Silty Peat with Fine to Medium Sand, 55% Organics, 2 ppt Salinity, Dark Brown NP NP	PT
No. 2	SS - 5	0 - 3"	Fine to Medium Poorly Graded Sand, Trace Silt, 1% Organics, 1 ppt Salinity - Dark Brown NP NP	SP
No. 3	SS - 6	0 - 3"	Silty Fine to Medium Sand, 18% Organics, 0.1 ppt Salinity NP NP	SM

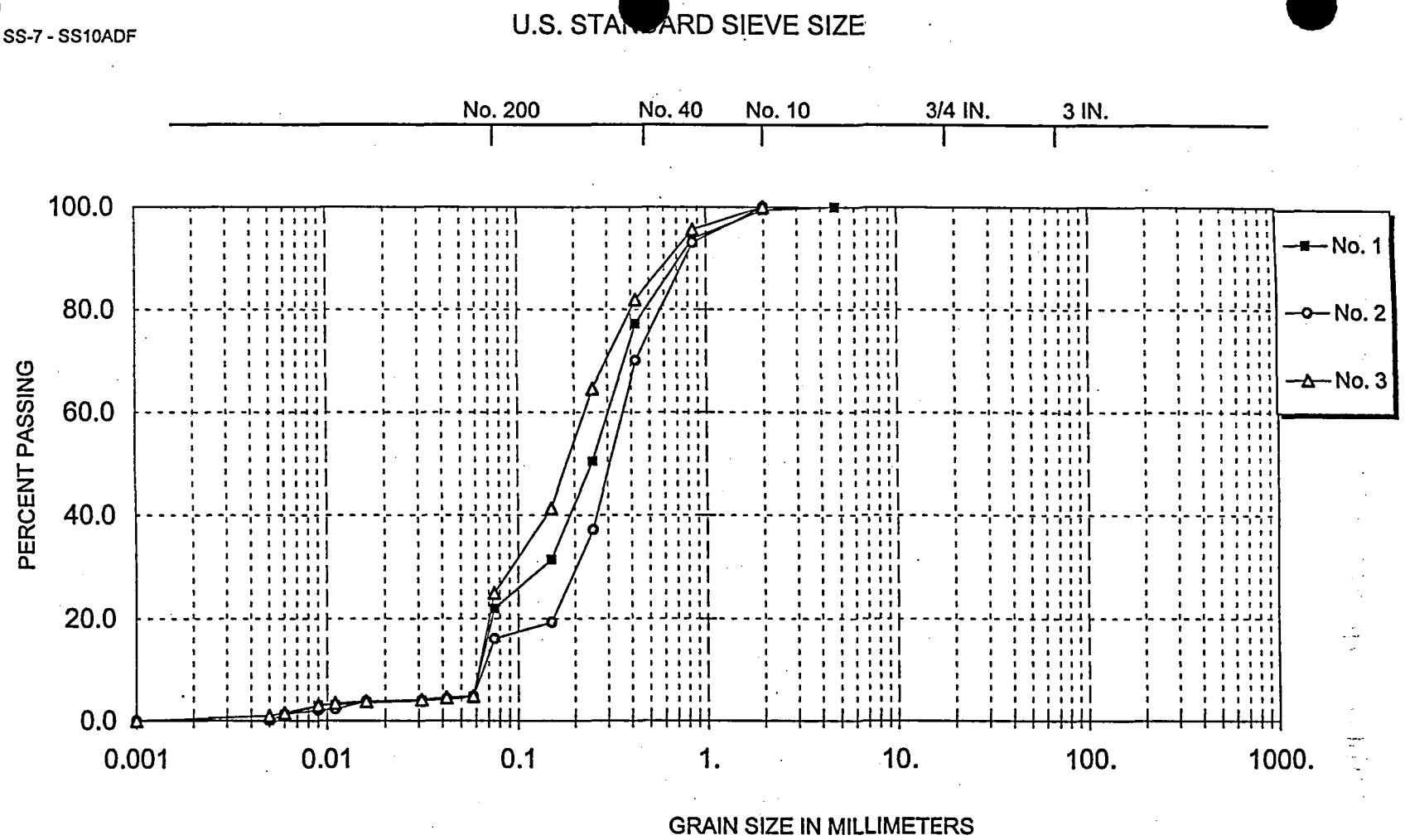
Schnabel Engineering

GRADATION CURVES

SWP - Wilmington
Wilmington, NC

CONTRACT NO.	DATE
979007.A0	4/16/01

SWP Wil Sieve SS-7 - SS10ADF



SILT OR CLAY	SAND			GRAVEL		COBBLES
	Fine	Medium	Coarse	Fine	Coarse	

KEY	NO.	DEPTH	DESCRIPTION OF SOIL SAMPLE TESTED	CLASS.
No. 1	SS - 7	0 - 3 "	Fine to Medium Silty Sand, 10% Organics, 2 ppt Salinity - Dark Brown NP NP	SM
No. 2	SS - 9DF	0 - 3 "	Fine to Medium Silty Sand, 2% Organics, 11 ppt Salinity - Gray NP NP	SM
No. 3	SS - 10A -DF	0 - 3 "	Fine to Medium Silty Sand, 9% Organics, 3 ppt Salinity - Gray NP NP	SM

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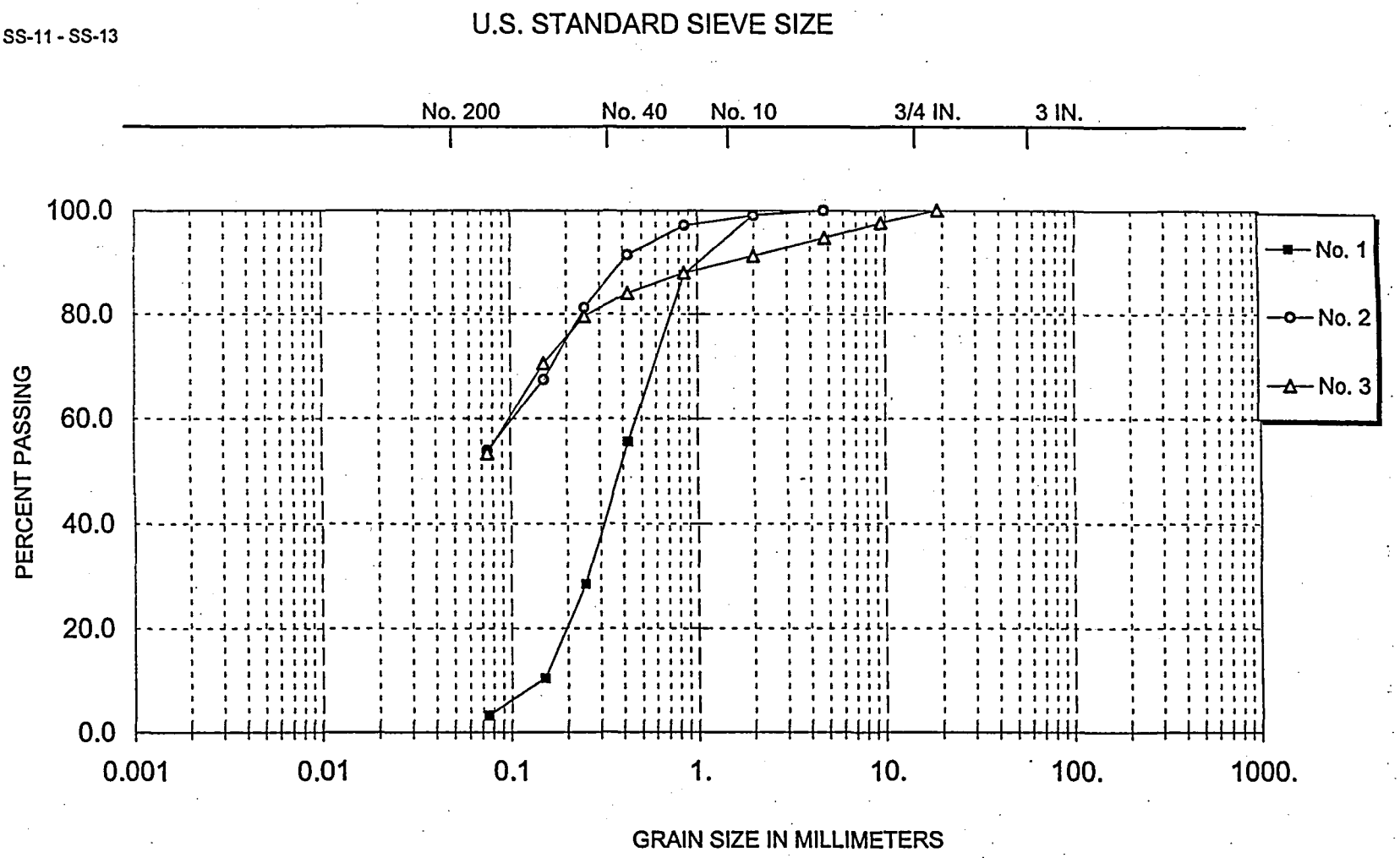
GRADATION CURVES

SWP - Wilmington
Wilmington, NC

CONTRACT NO.	DATE
979007.A0	4/16/01

SWP Wil Sieve SS-11 - SS-13



SILT OR CLAY	SAND			GRAVEL		COBBLES
	Fine	Medium	Coarse	Fine	Coarse	

KEY	NO.	DEPTH	DESCRIPTION OF SOIL SAMPLE TESTED	CLASS.
No. 1	SS - 11	0 - 3 "	Fine to Medium Poorly Graded Sand, Trace Silt, 1% Organics, 0.1 ppt Salinity - Dark Brown NP NP	SP
No. 2	SS - 12	0 - 3 "	Fine to Medium Sandy Silt, 10% Organics, 2 ppt Salinity - Dark Brown NP NP	ML
No. 3	SS - 13	0 - 3 "	Fine to Coarse Sandy Silt, 10% Organics, 1 ppt Salinity - Dark Brown NP NP	ML

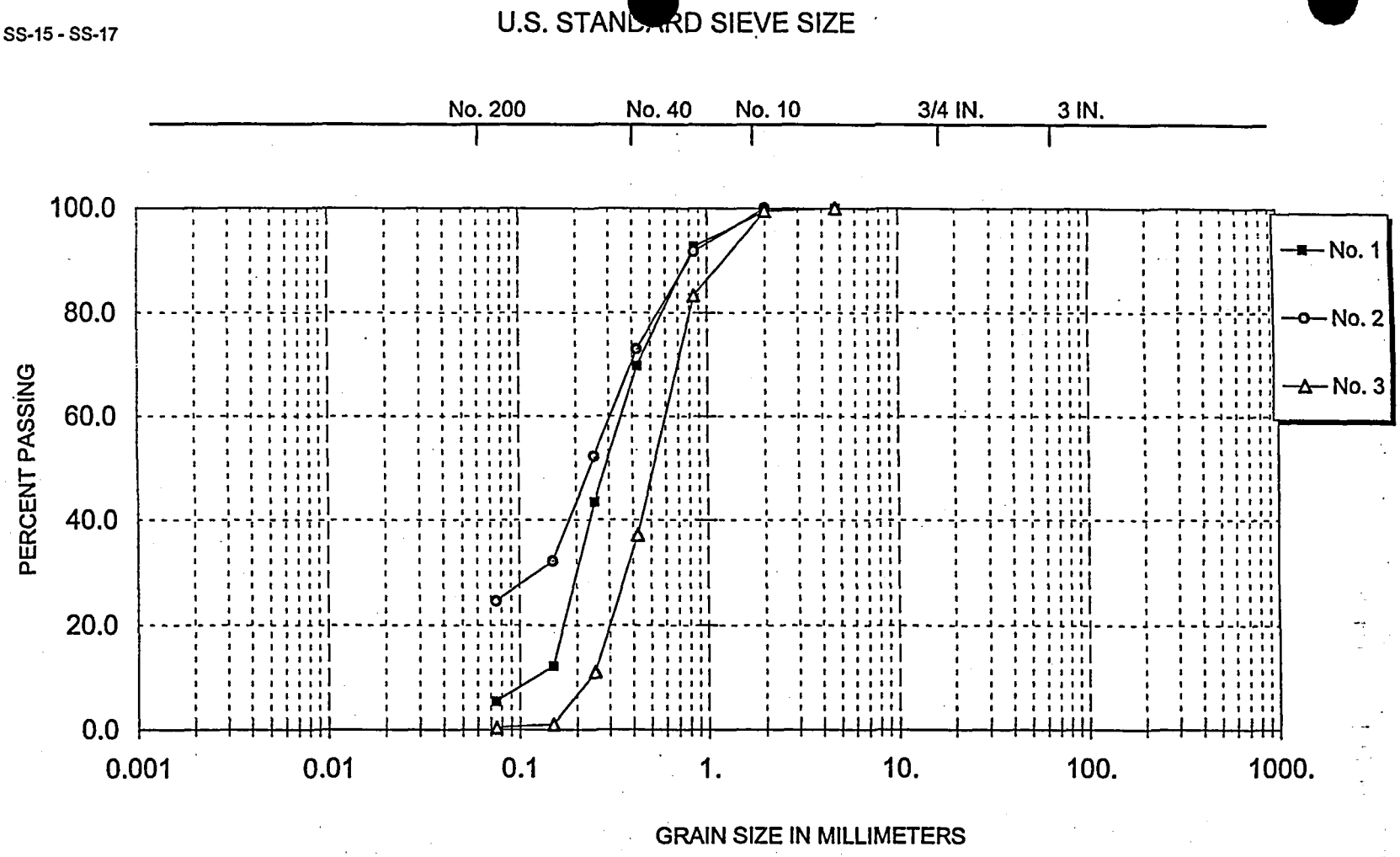
Schnabel Engineering

GRADATION CURVES

SWP - Wilmington
Wilmington, NC

CONTRACT NO.	DATE
979007.A0	4/16/01

SWP Wil Sieve SS-15 - SS-17



SILT OR CLAY	SAND			GRAVEL		COBBLES
	Fine	Medium	Coarse	Fine	Coarse	

KEY	NO.	DEPTH	DESCRIPTION OF SOIL SAMPLE TESTED	CLASS.
No. 1	SS - 15	0 - 3"	Fine to Medium Poorly Graded Sand with Silt, 1% Organics, 11 ppt Salinity - Brown NP NP	SP/SM
No. 2	SS - 16 DF	0 - 3"	Fine to Medium Silty Sand, 4% Organics, 6.0 ppt Salinity - Brown NP NP	SM
No. 3	SS - 17	0 - 3"	Fine to Medium Poorly Graded Sand, 0% organics, 0.1 ppt Salinity - Brown NP NP	SP

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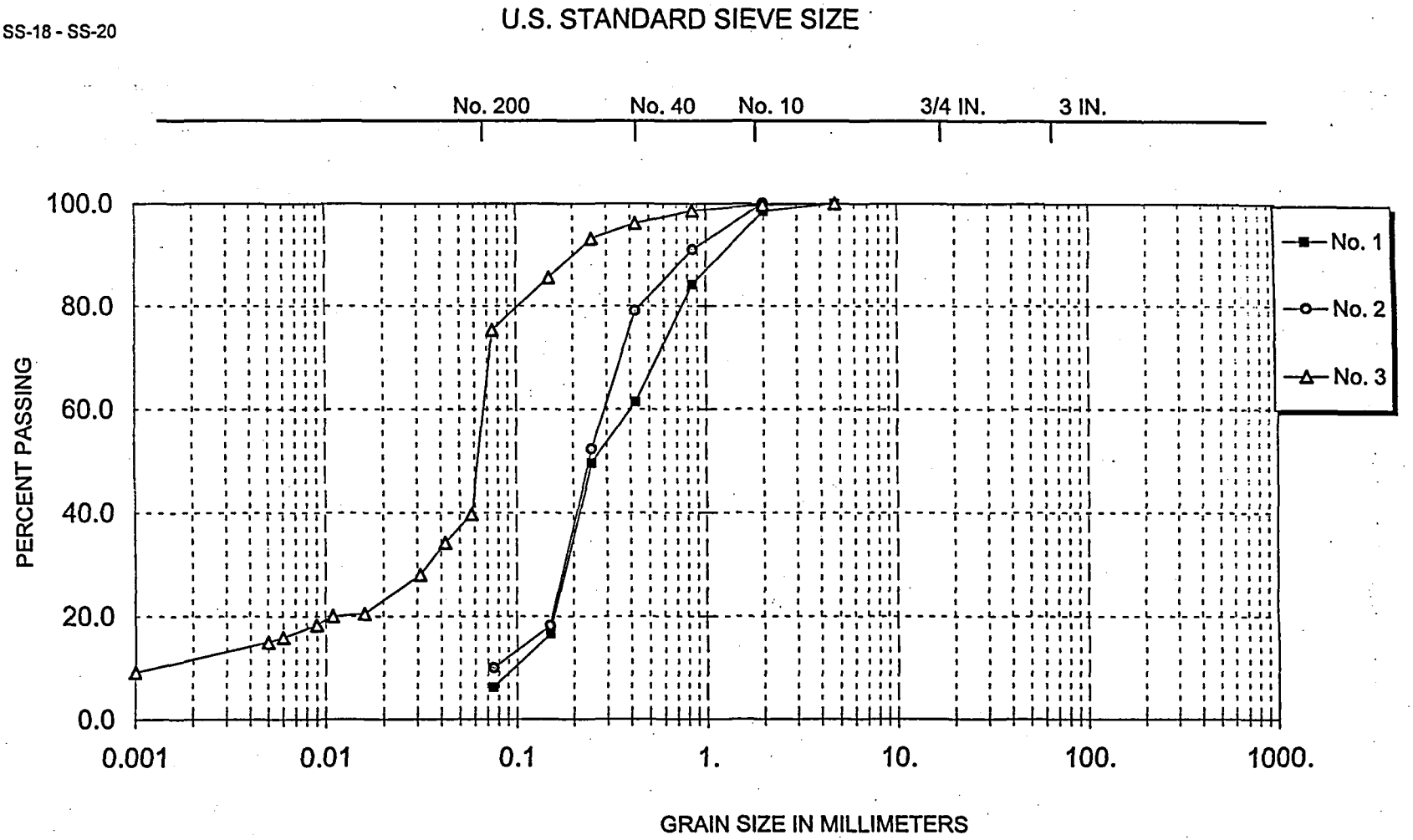
GRADATION CURVES

SWP - Wilmington
Wilmington, NC

CONTRACT NO.	DATE
979007.A0	4/16/01

SWP Wil Sieve SS-18 - SS-20



SILT OR CLAY	SAND			GRAVEL		COBBLES
	Fine	Medium	Coarse	Fine	Coarse	

KEY	NO.	DEPTH	DESCRIPTION OF SOIL SAMPLE TESTED	CLASS.
No. 1	SS - 18	0 - 3 "	Fine to Medium Will Graded Sand with Silt, 1% Organics, 9 ppt Salinity - Dark Brown NP NP	SW
No. 2	SS - 19 DF	0 - 3 "	Fine to Medium Poorly Graded Sand with Silt, 1% Organics, 8 ppt Salinity - Brown & Gray NP NP	SP/SM
No. 3	SS - 20	0 - 3 "	Silt with Fine Sand, 11% Organics, 9 ppt Salinity - Brown NP NP	ML

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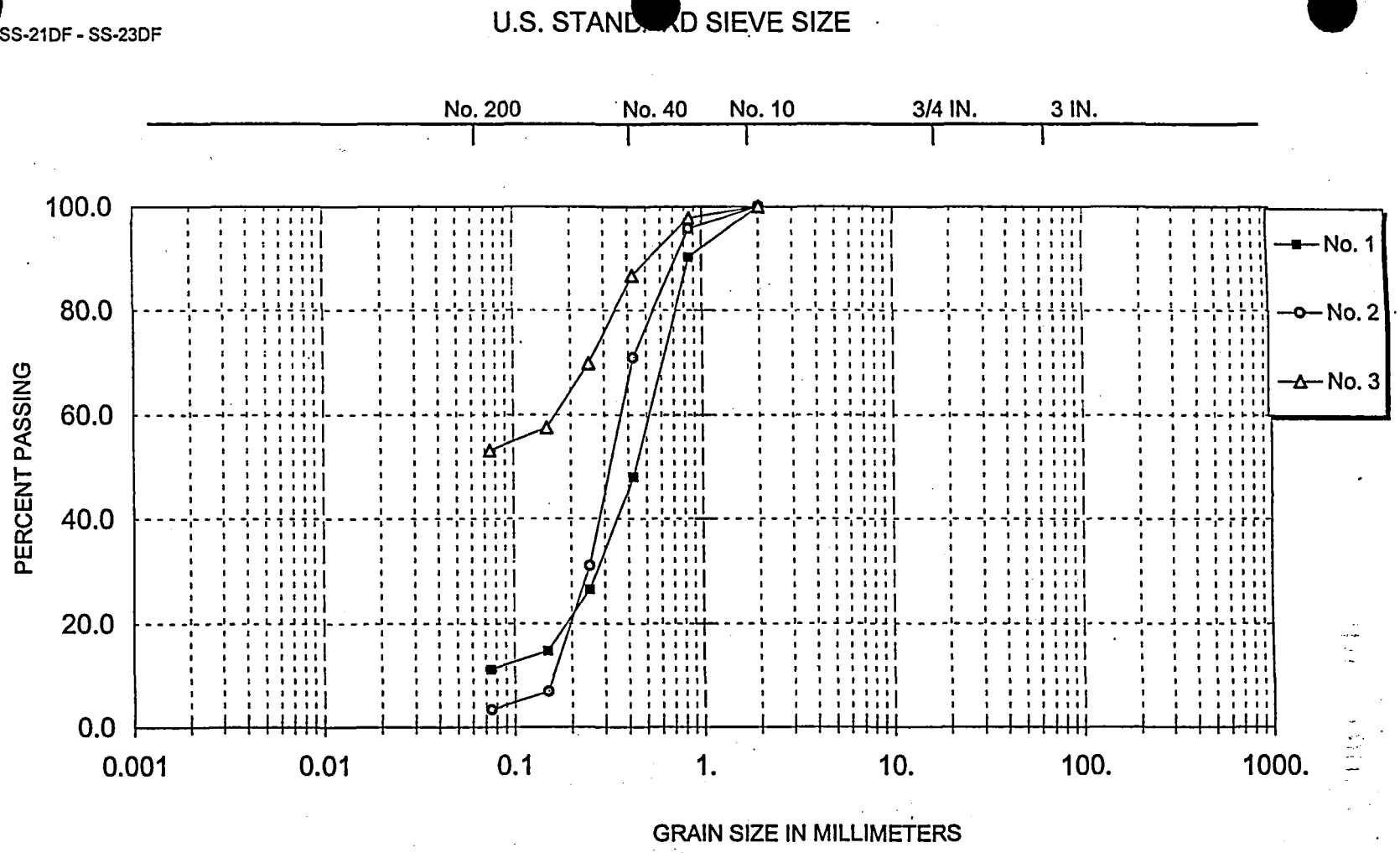
GRADATION CURVES

SWP - Wilmington
Wilmington, NC

CONTRACT NO.	DATE
979007.A0	4/16/01

SWP Wil Sieve SS-21DF - SS-23DF



SILT OR CLAY	SAND			GRAVEL		COBBLES
	Fine	Medium	Coarse	Fine	Coarse	

KEY	NO.	DEPTH	DESCRIPTION OF SOIL SAMPLE TESTED	CLASS.
No. 1	SS - 21DF	0 - 3 "	Fine to Medium Poorly Graded Sand with Silt, 1% Organics, 7 ppt Salinity - Brown to Gray NP NP	SP / SM
No. 2	SS - 22	0 - 3 "	Fine to Medium Poorly Graded Sand, Trace Silt, 2% Organics, 5 ppt Salinity - Brown NP NP	SP
No. 3	SS - 23DF	0 - 3 "	Fine to Medium Sandy Silt, 5% Organics, 7.0 ppt Salinity - Dark Gray NP NP	ML

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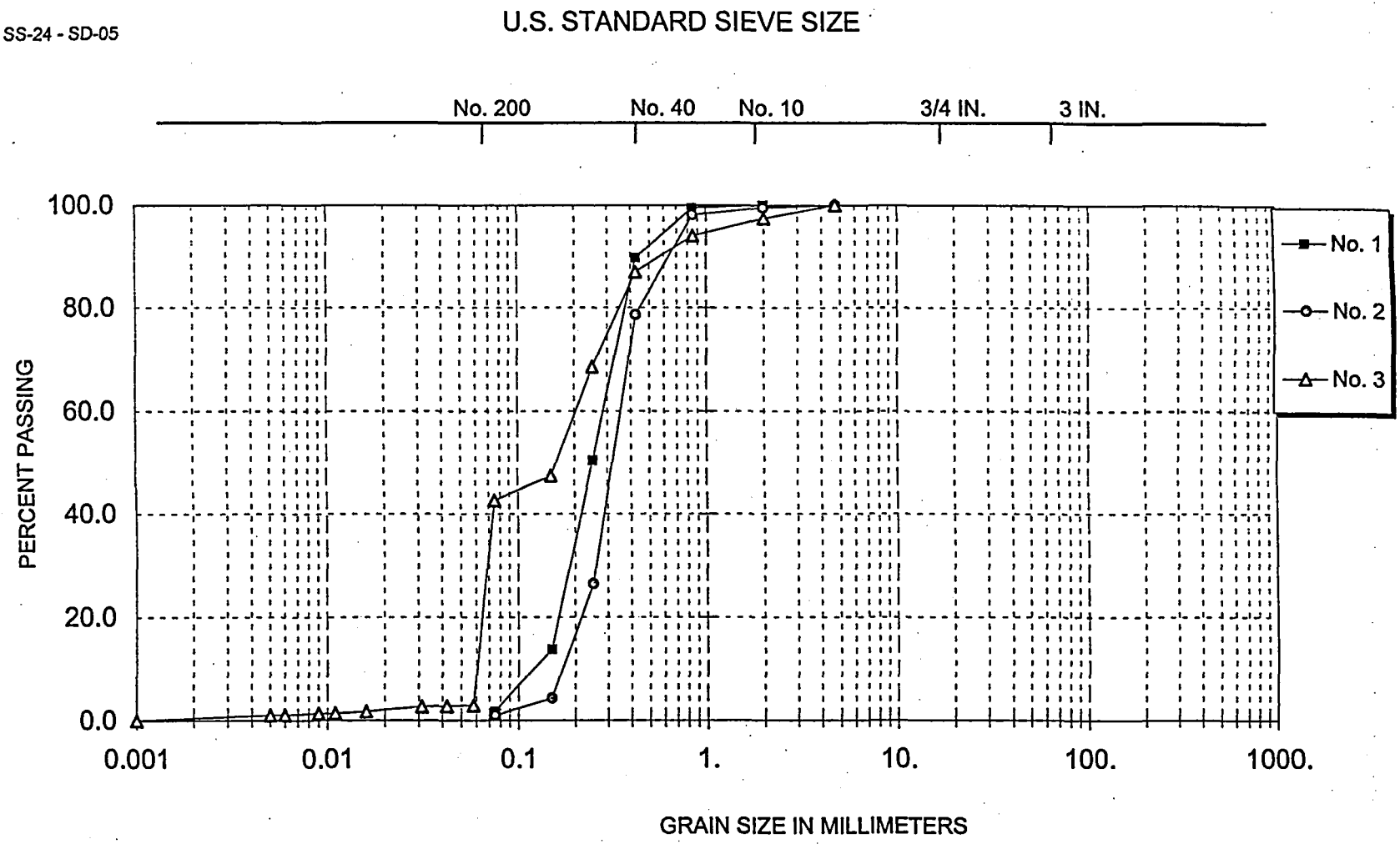
GRADATION CURVES

SWP - Wilmington
Wilmington, NC

CONTRACT NO.	DATE
979007.A0	4/16/01

SWP Wil Sieve SS-24 - SD-05



SILT OR CLAY	SAND			GRAVEL		COBBLES
	Fine	Medium	Coarse	Fine	Coarse	

KEY	NO.	DEPTH	DESCRIPTION OF SOIL SAMPLE TESTED	CLASS.
No. 1	SS - 24	0 - 3 "	Fine to Medium Poorly Graded Sand, Trace Silt, 1% Organics, 9 ppt Salinity - Dark Gray NP NP	SP
No. 2	SD - 03	0 - 3 "	Fine to Medium Poorly Graded Sand, Trace Silt, Contains Shell Fragments, 2% Organics, 0.1 ppt Sali NP NP	SP
No. 3	SD - 05	0 - 3 "	Fine to Medium Silty Sand with Peat, 23% Organics, 0.1 ppt Salinity - Dark Brown NP NP	SM

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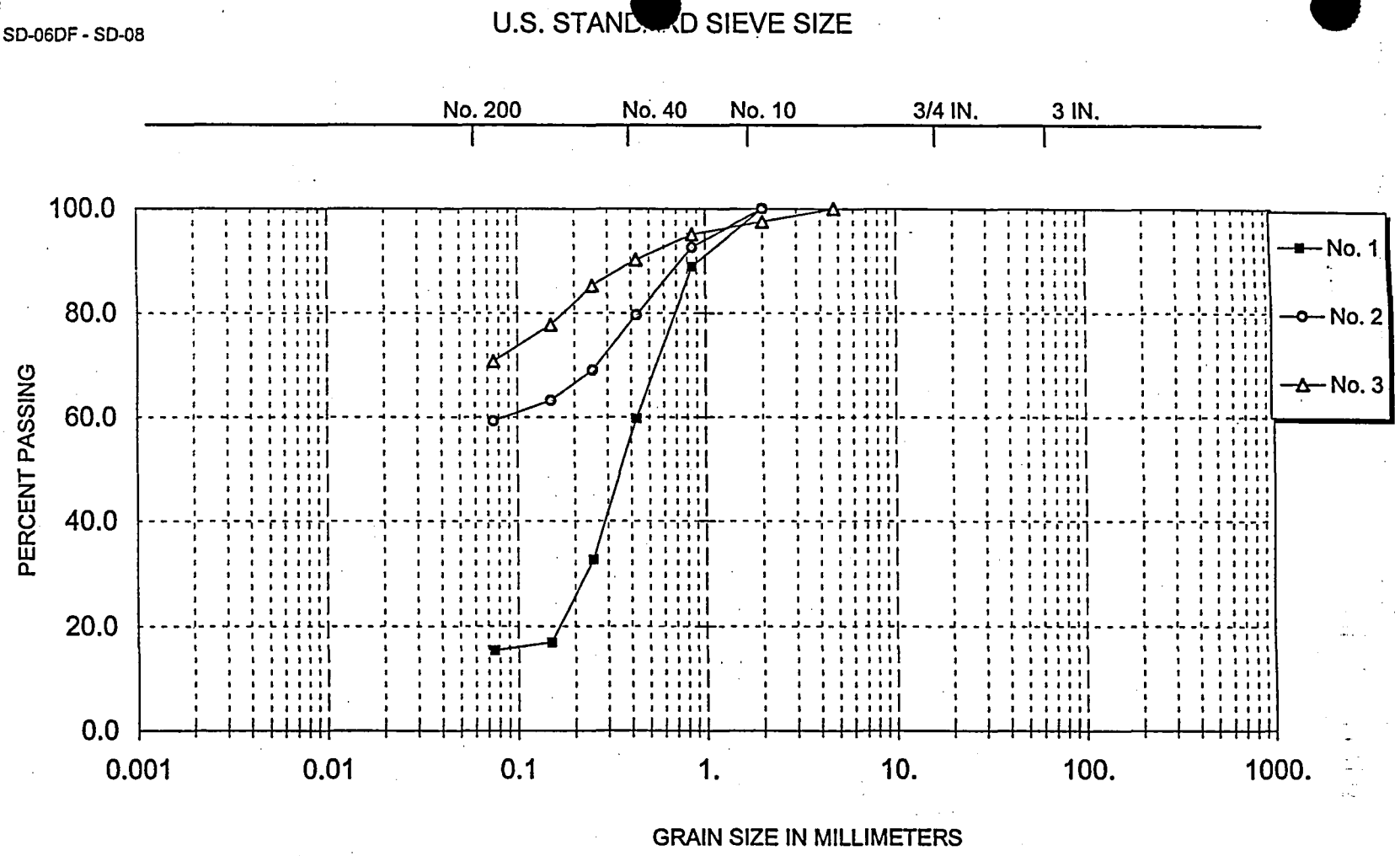
GRADATION CURVES

SWP - Wilmington
Wilmington, NC

CONTRACT NO.	DATE
979007.A0	4/16/01

SWP Wil Sieve SD-06DF - SD-08



SILT OR CLAY	SAND			GRAVEL		COBBLES
	Fine	Medium	Coarse	Fine	Coarse	

KEY	NO.	DEPTH	DESCRIPTION OF SOIL SAMPLE TESTED	CLASS.
No. 1	SD-06DF	0 - 3 "	Fine To Medium Silty Sand, 5% Organics, 4.0 ppt Salinity - Dark Brown NP NP	SM
No. 2	SD-07DF	0 - 3 "	Fine to Medium Sandy Silt with Peat, 36% Organics, 2.0 ppt Salinity - Brown NP NP	ML
No. 3	SD-08	0 - 3 "	Fine to Medium Sandy Silt, 17% Organics, 1 ppt Salinity - Dark Brown NP NP	ML

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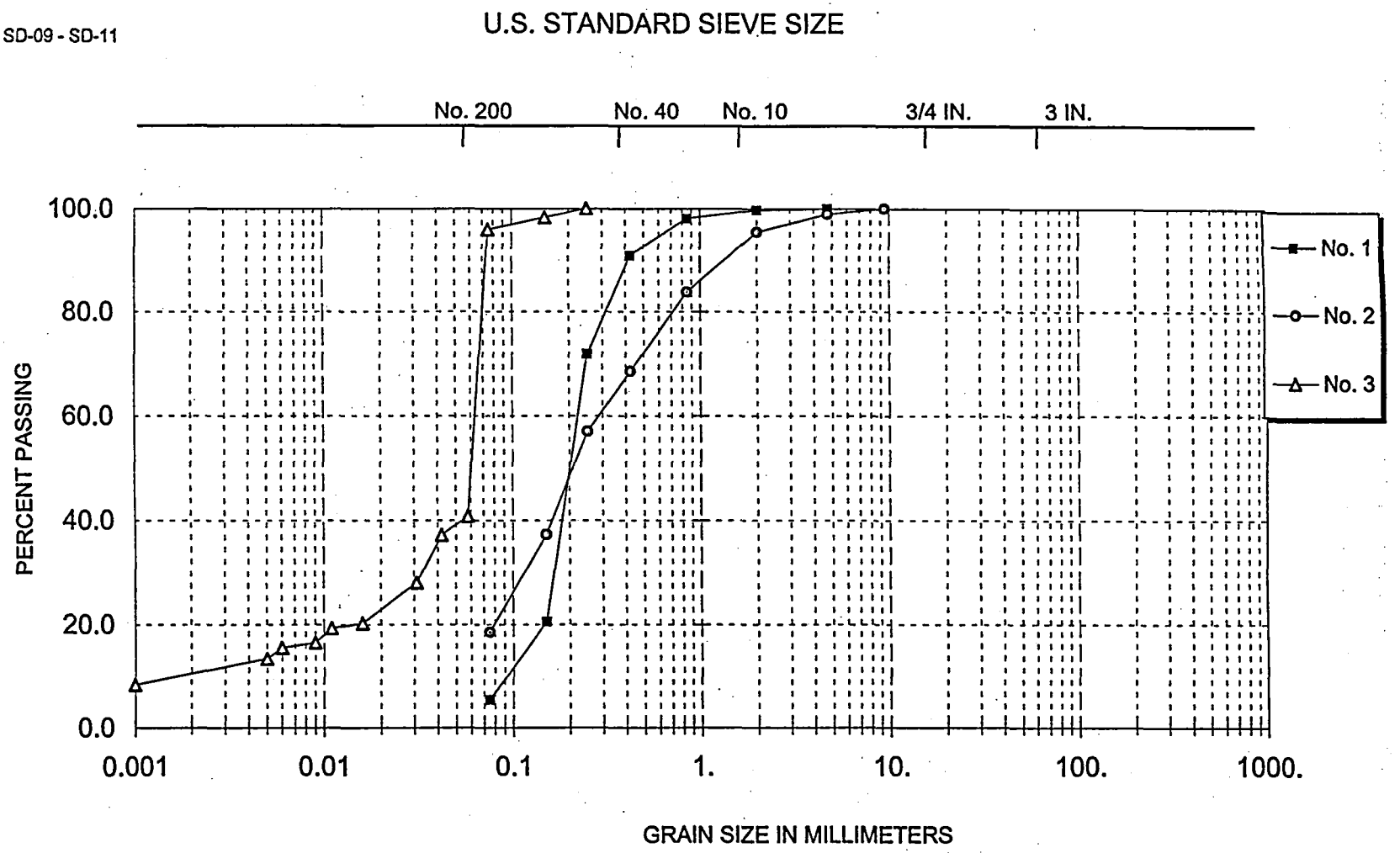
GRADATION CURVES

SWP - Wilmington
Wilmington, NC

CONTRACT NO.	DATE
979007.A0	4/16/01

SWP Wil Sieve SD-09 - SD-11



SILT OR CLAY	SAND			GRAVEL		COBBLES
	Fine	Medium	Coarse	Fine	Coarse	

KEY	NO.	DEPTH	DESCRIPTION OF SOIL SAMPLE TESTED	CLASS.
No. 1	SD-09	0 - 3 "	Fine to Medium Poorly Graded Sand, Trace Silt, 2% Organics, 0.1 ppt Salinity - Brown NP NP	SP
No. 2	SD-10	0 - 3 "	Fine to Medium Silty Sand, 15% Organics, 10 ppt Salinity - Brown NP NP	ML
No. 3	SD-11	0 - 3 "	Silt, Trace Fine Sand, 12% Organics, 7 ppt Salinity - Brown NP NP	ML

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GRADATION CURVES

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Wilmington, NC

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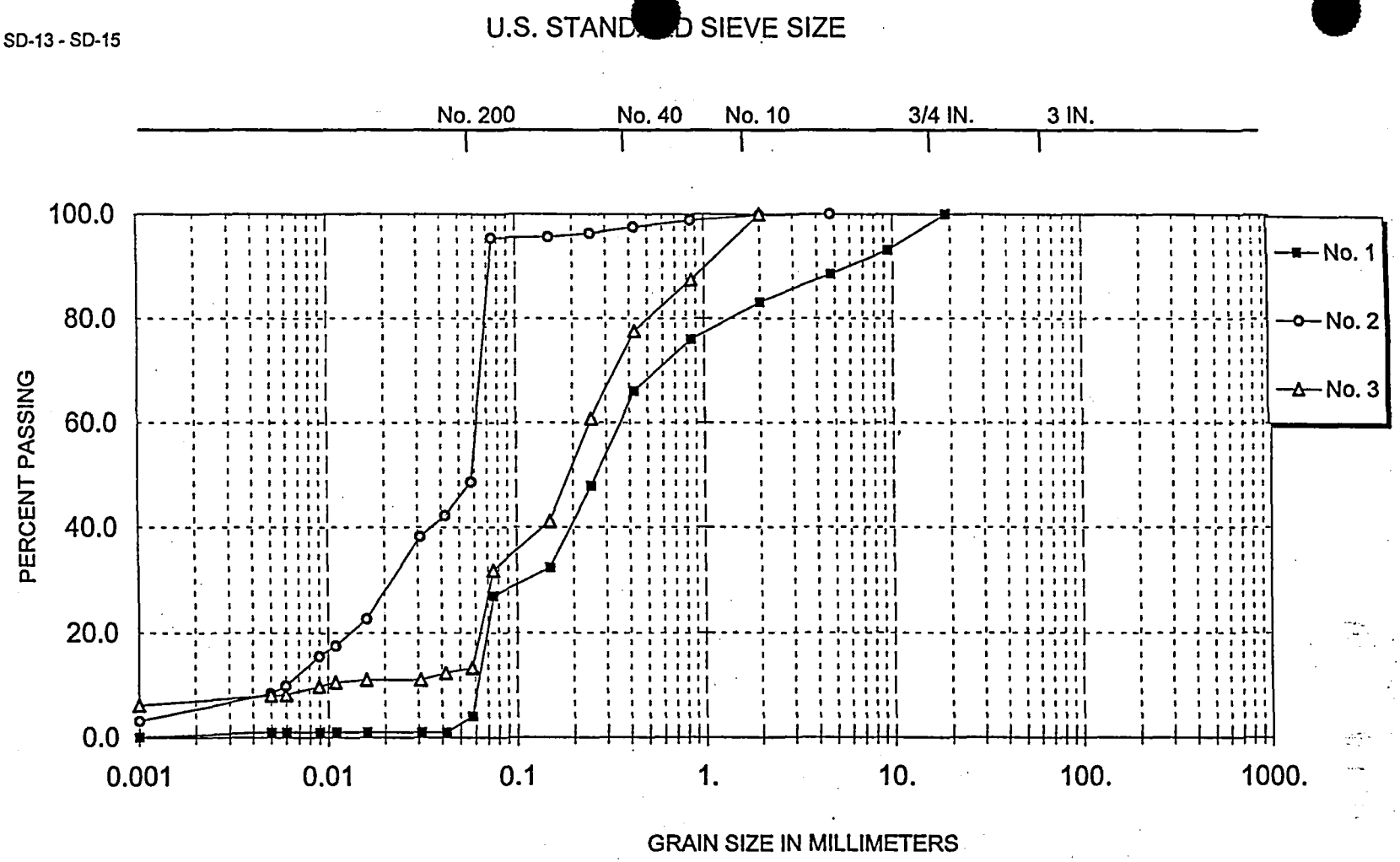
SWP Wil S.ve SD-13 - SD-15



SILT OR CLAY	SAND			GRAVEL		COBBLES
	Fine	Medium	Coarse	Fine	Coarse	

KEY	NO.	DEPTH	DESCRIPTION OF SOIL SAMPLE TESTED	CLASS.
No. 1	SD-13	0 - 3 "	Fine to Coarse Silty Sand, Trace Gravel, 20% Organics, 1 ppt Salinity - Dark Brown NP NP	SM
No. 2	SD-14	0 - 3 "	Silt, Trace Fine Sand, 23% Organics, 2 ppt Salinity - Dark Brown NP NP	ML
No. 3	SD-15	0 - 3 "	Fine to Medium Silty Sand with Peat, 41% Organics, 0.1 ppt Salinity - Brown NP NP	SM

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GRADATION CURVES

SWP - Wilmington
Wilmington, NC

CONTRACT NO.	DATE
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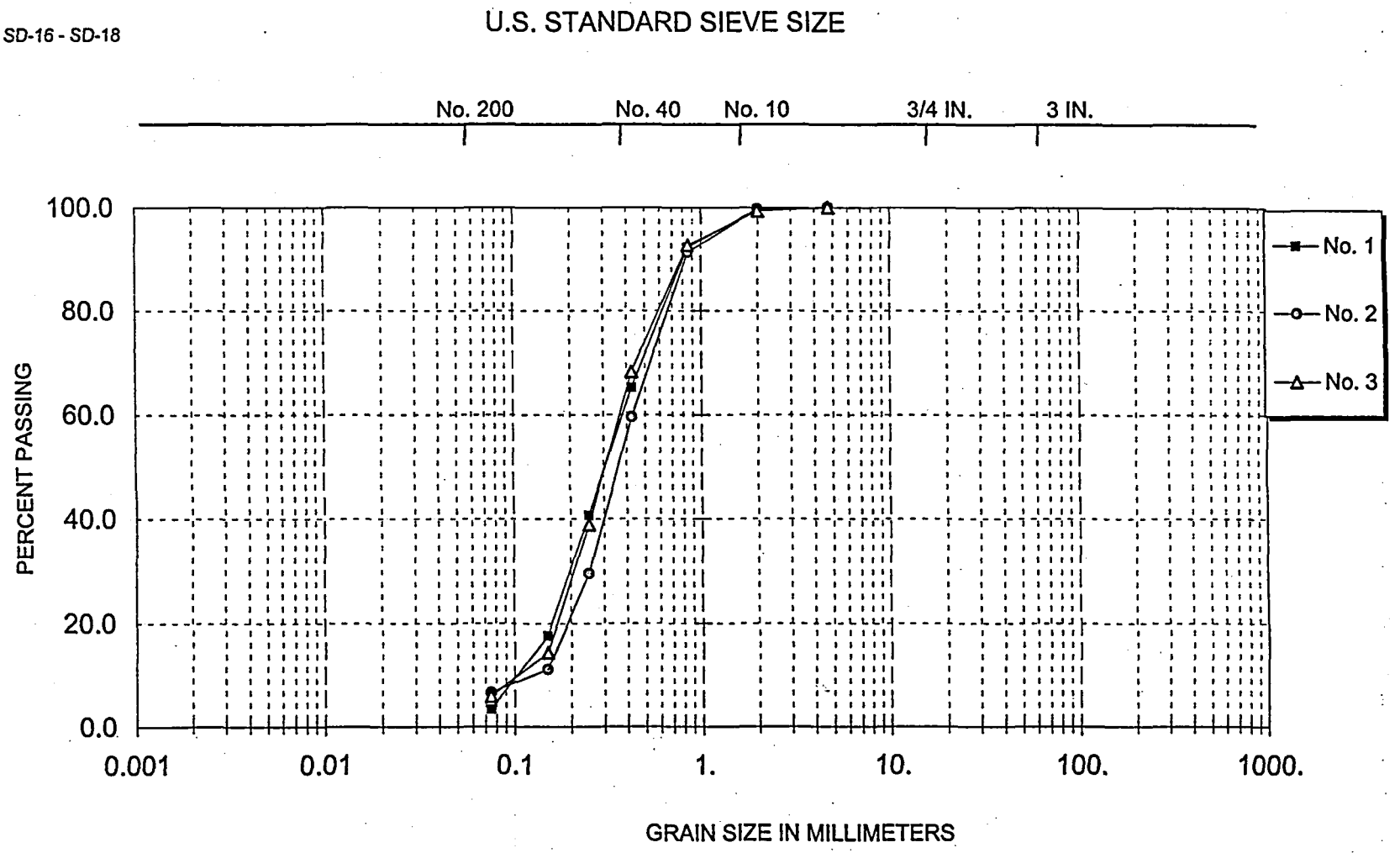
SWP Wil Sieve SD-16 - SD-18



SILT OR CLAY	SAND			GRAVEL		COBBLES
	Fine	Medium	Coarse	Fine	Coarse	

KEY	NO.	DEPTH	DESCRIPTION OF SOIL SAMPLE TESTED	CLASS.
No. 1	SD-16	0 - 3 "	Fine to Medium Poorly Graded Sand, Trace Silt, 1% Organics, 0.1 ppt Salinity - Brown NP NP	SP
No. 2	SD-17	0 - 3 "	Fine to Medium Sand with Silt, 4% Organics, 0.1 ppt Salinity - Brown NP NP	SP
No. 3	SD-18	0 - 3 "	Fine to Medium Poorly Graded Sand with Silt, 3% Organics, 2 ppt Salinity - Brown NP NP	SP

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GRADATION CURVES

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Wilmington, NC

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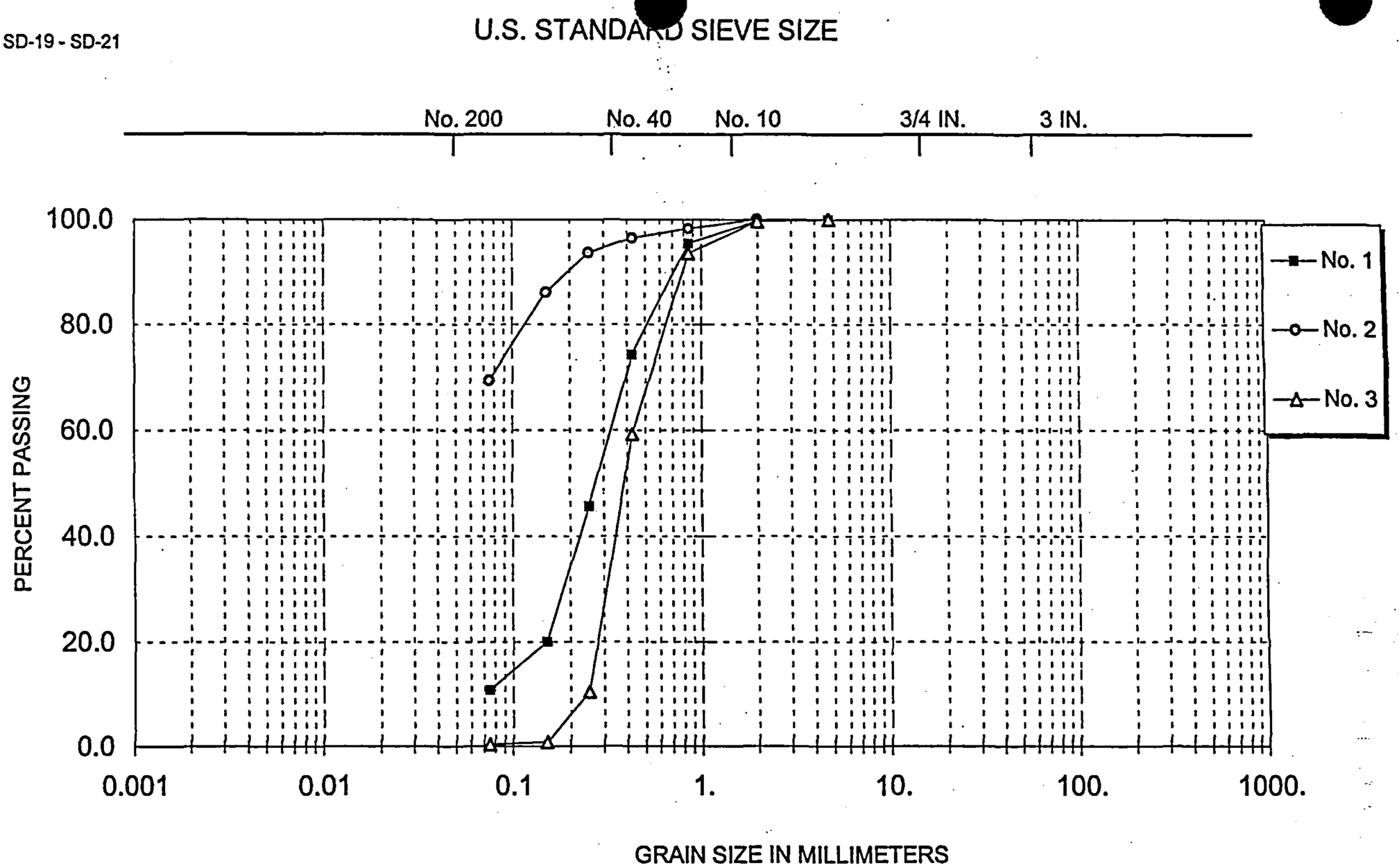
SWP Wil Sieve SD-19 - SD-21



SILT OR CLAY	SAND			GRAVEL		COBBLES
	Fine	Medium	Coarse	Fine	Coarse	

KEY	NO.	DEPTH	DESCRIPTION OF SOIL SAMPLE TESTED	CLASS.
No. 1	SD-19	0 - 3 "	Fine to Medium Poorly Graded Sand with Silt, 3% Organics, 1 ppt Salinity - Brown NP NP	SP
No. 2	SD-20	0 - 3 "	Fine to Medium Sandy Silt, 23% Organics, 1 ppt Salinity - Dark Brown NP NP	ML
No. 3	SD-21	0 - 3 "	Fine to Medium Poorly Graded Sand, 1% Organics, 0.1 ppt Salinity - Dark Brown NP NP	SP

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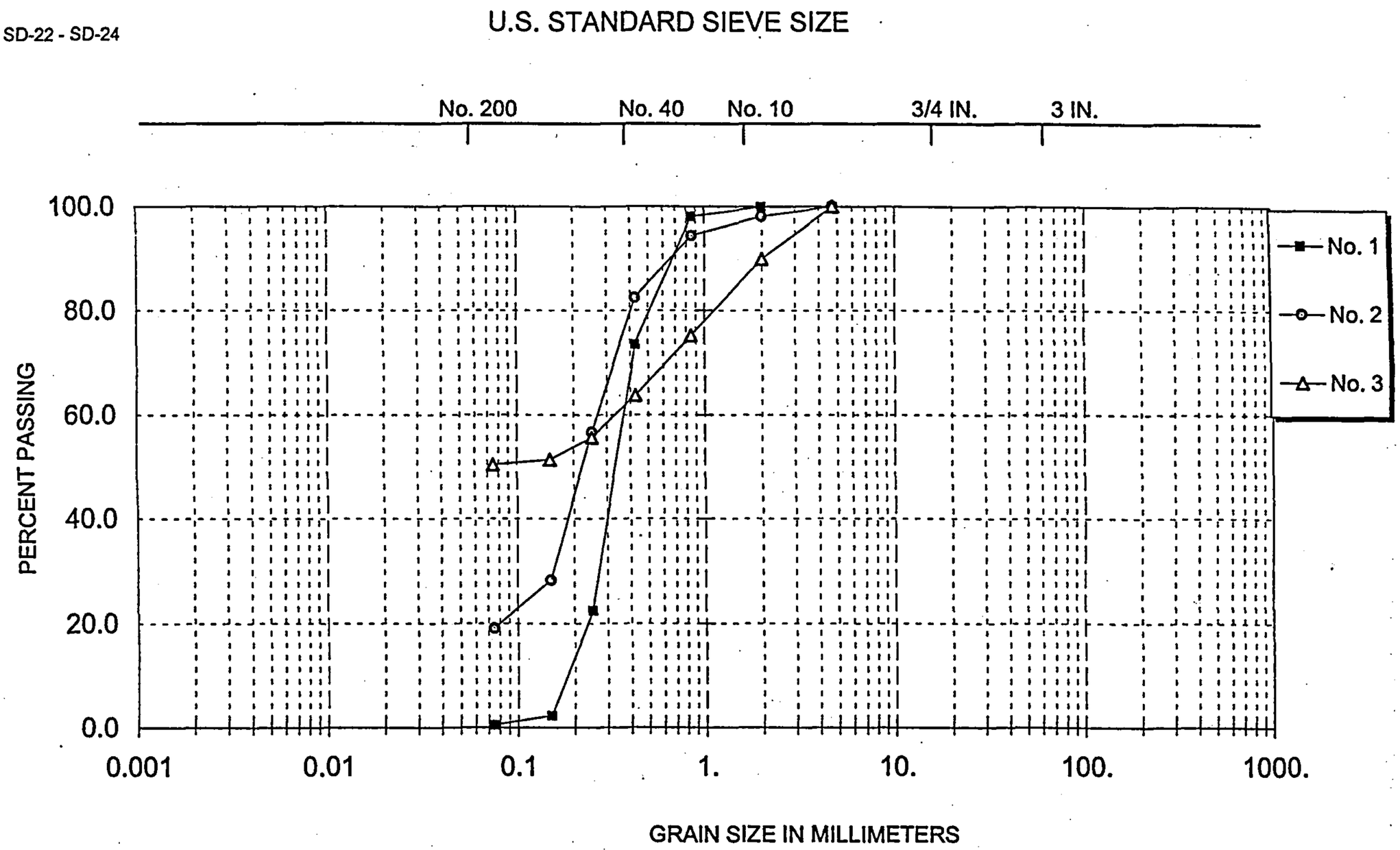
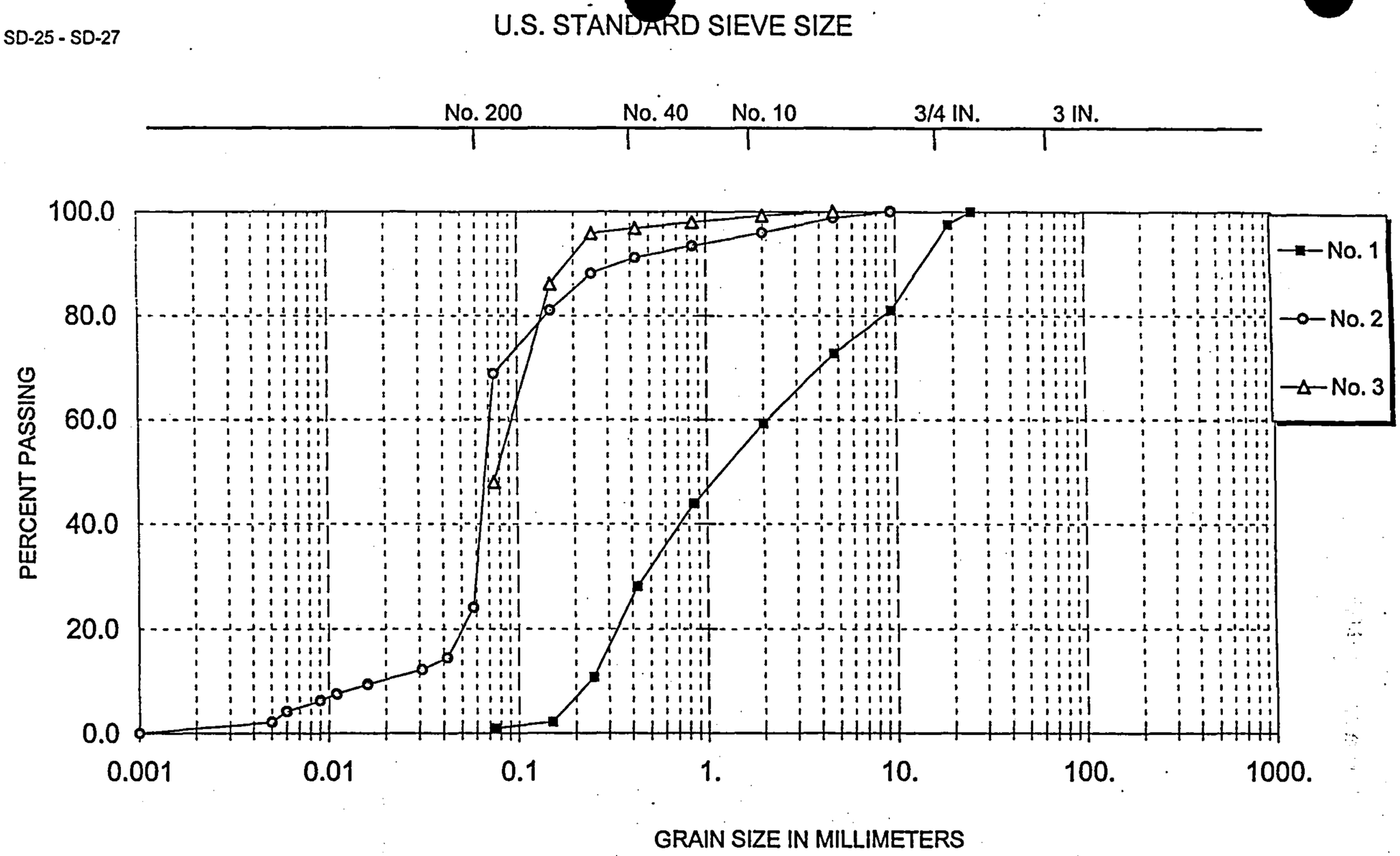
SWP Wil Sieve SD-22 - SD-24



SILT OR CLAY	SAND			GRAVEL		COBBLES
	Fine	Medium	Coarse	Fine	Coarse	

KEY	NO.	DEPTH	DESCRIPTION OF SOIL SAMPLE TESTED	CLASS.	Schnabel Engineering	
No. 1	SD-22	0 - 3 "	Fine to Medium Poorly Graded Sand, 1% Organics, 0.1 ppt Salinity - Brown NP NP	SP	GRADATION CURVES	
No. 2	SD-23	0 - 3 "	Fine to Medium Silty Sand, 13% Organics, 0.1 ppt Salinity - Dark Brown NP NP	SM	SWP - Wilmington Wilmington, NC	
No. 3	SD - 24	0 - 3 "	Fine to Coarse Sandy Peat With Silt, 52% Organics, 1 ppt Salinity - Brown NP NP	PT	CONTRACT NO. 979007.A0	DATE 4/16/01

SWP Wil Sieve SD-25 - SD-27



SILT OR CLAY	SAND			GRAVEL		COBBLES
	Fine	Medium	Coarse	Fine	Coarse	

KEY	NO.	DEPTH	DESCRIPTION OF SOIL SAMPLE TESTED	CLASS.
No. 1	SD-25	0 - 3 "	Fine to Coarse Well Graded Gravelly Sand, 2% Organics, 0.1 ppt Salinity - Dark Brown NP NP	SW
No. 2	SD- 26	0 - 3 "	Fine to Coarse Sandy Silt with Peat, 23% Organics, 3 ppt Salinity - Dark Brown NP NP	ML
No. 3	SD-27	0 - 3 "	Fine to Medium Silty Sand, 11% Organics, 3 ppt Salinity - Dark Brown NP NP	SM

Schnabel Engineering

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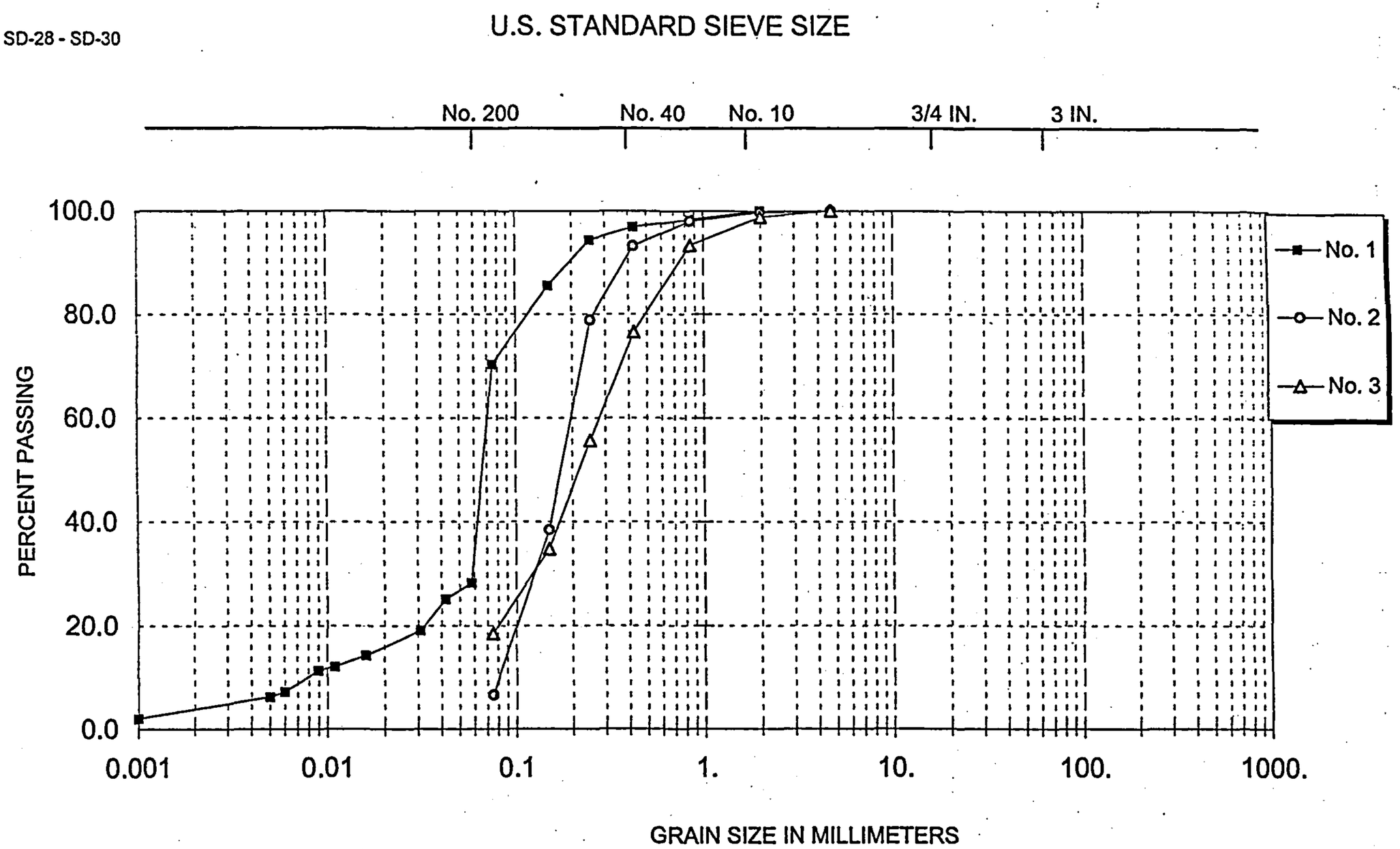
SWP Wil Sieve SD-28 - SD-30



SILT OR CLAY	SAND			GRAVEL		COBBLES
	Fine	Medium	Coarse	Fine	Coarse	

KEY	NO.	DEPTH	DESCRIPTION OF SOIL SAMPLE TESTED	CLASS.
No. 1	SD-28	0 - 3"	Fine to Medium Sandy Silt, 20% Organics, 2 ppt Salinity - Dark Brown NP NP	ML
No. 2	SD - 29	0 - 3"	Fine to Medium Poorly Graded Sand, With Silt, 2% Organics, 1 ppt Salinity - Brown NP NP	SP
No. 3	SD - 30	0 - 3"	Fine to Medium Poorly Graded Silty Sand, 5% Organics, 1 ppt Salinity - Dark Brown NP NP	SM

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GRADATION CURVES

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Wilmington, NC

CONTRACT NO. 979007.A0

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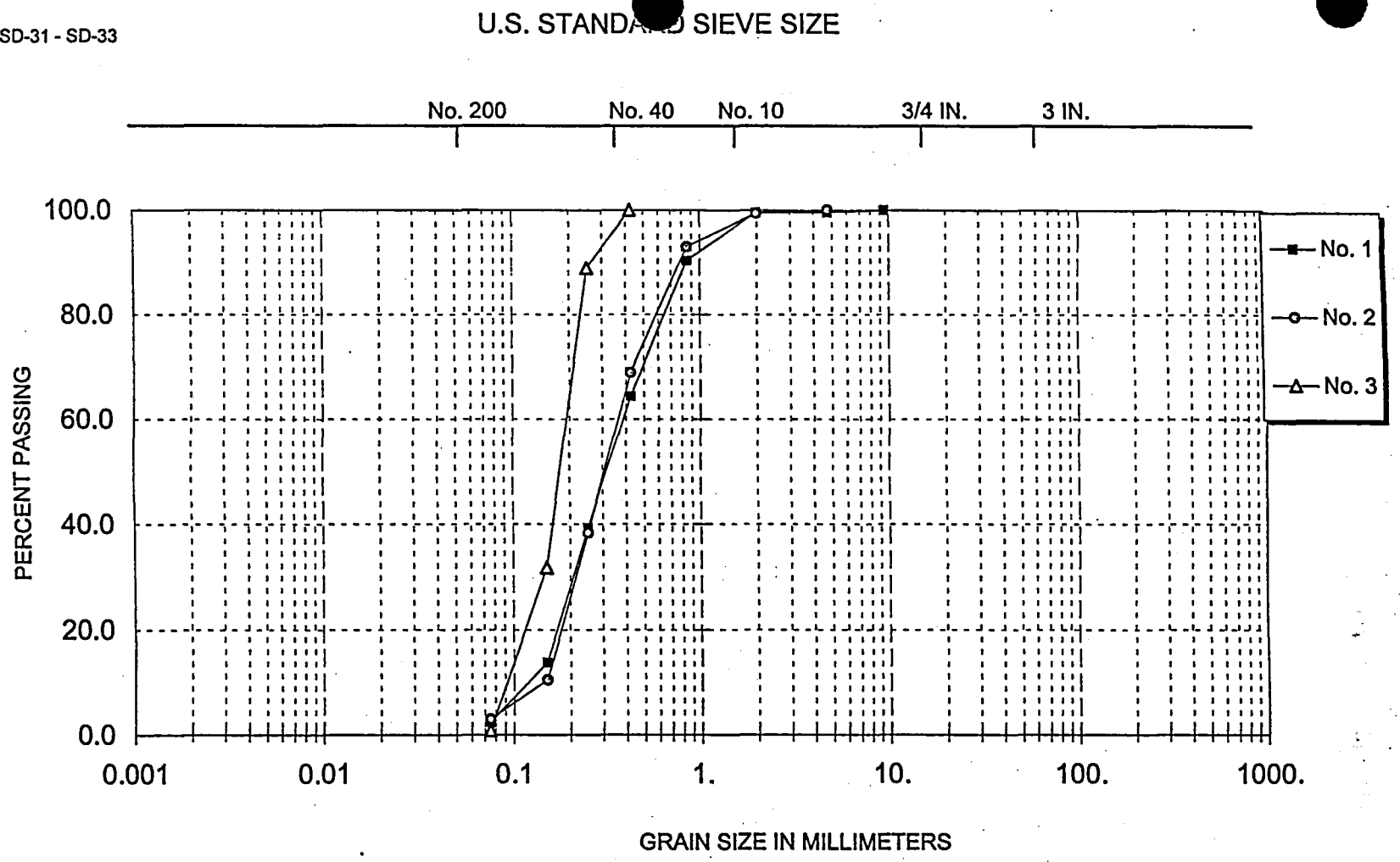
SWP Wil Sieve SD-31 - SD-33



SILT OR CLAY	SAND			GRAVEL		COBBLES
	Fine	Medium	Coarse	Fine	Coarse	

KEY	NO.	DEPTH	DESCRIPTION OF SOIL SAMPLE TESTED	CLASS.
No. 1	SD-31	0 - 3 "	Fine to Medium Poorly Graded Sand, Trace Silt, 1% Organics, 2 ppt Salinity - Brown NP NP	SP
No. 2	SD-32	0 - 3 "	Fine to Medium Poorly Graded Sand, Treace Silt, 1% Organics, 0.1 ppt Salinity - Dark Brown NP NP	SP
No. 3	SD-33	0 - 3 "	Poorly Graded Fine Sand, Trace Silt, 2% Organics, 0.1 ppt Salinity - Brown NP NP	SP

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SWP - Wilmington
Wilmington, NC

CONTRACT NO.	DATE
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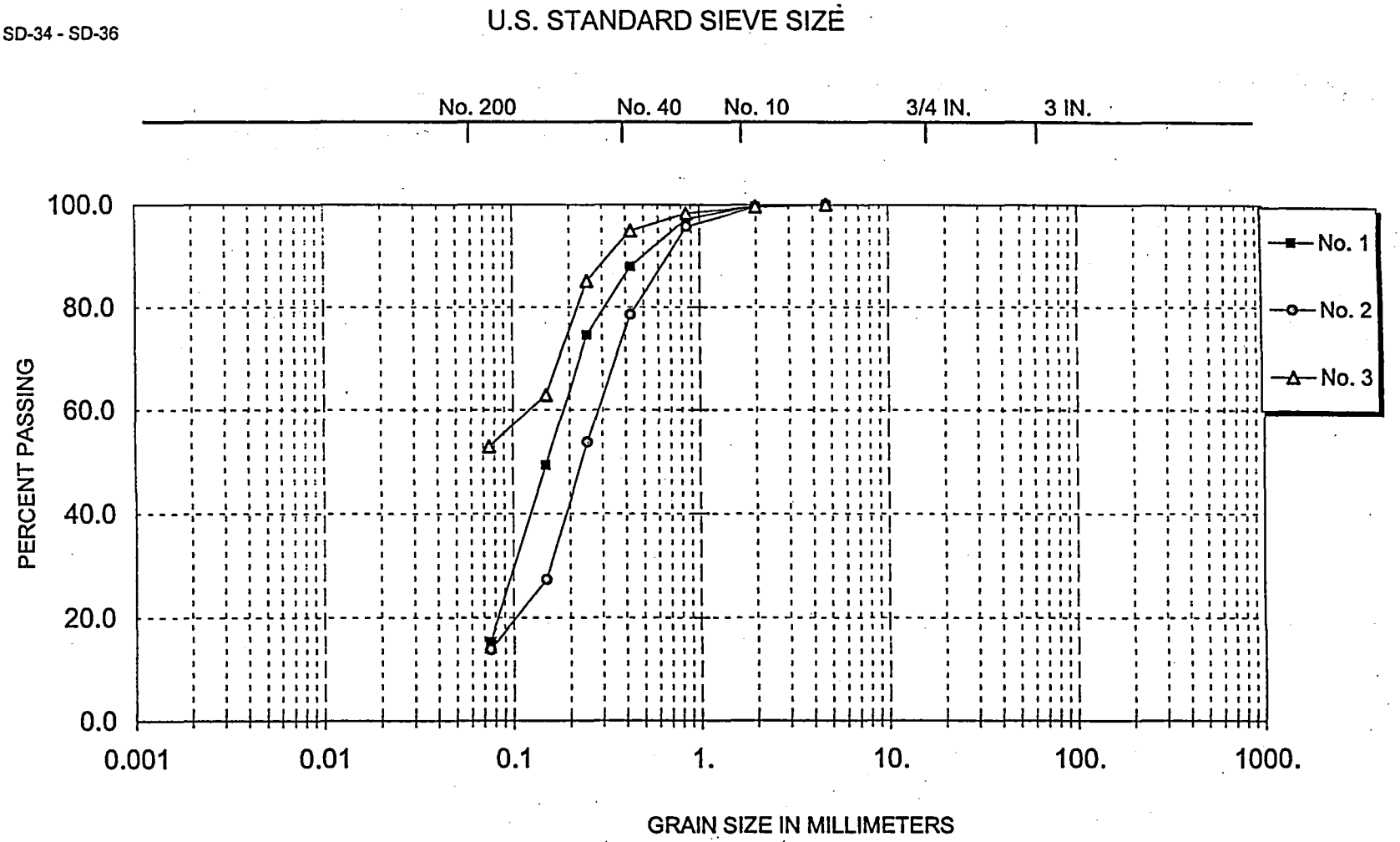
SWP Wil Sieve SD-34 - SD-36



SILT OR CLAY	SAND			GRAVEL		COBBLES
	Fine	Medium	Coarse	Fine	Coarse	

KEY	NO.	DEPTH	DESCRIPTION OF SOIL SAMPLE TESTED	CLASS.
No. 1	SD-34	0 - 3 "	Fine to Medium Silty Sand, 7% Organics, 4 ppt Salinity - Dark Brown NP NP	SM
No. 2	SD-35	0 - 3 "	Fine to Medium Silty Sand, 5% Organics, 3 ppt Salinity - Dark Brown NP NP	SM
No. 3	SD-36	0 - 3 "	Fine to Medium Sandy Silt With Peat, 38% Organics, 2 ppt Salinity - Dark Brown NP NP	ML

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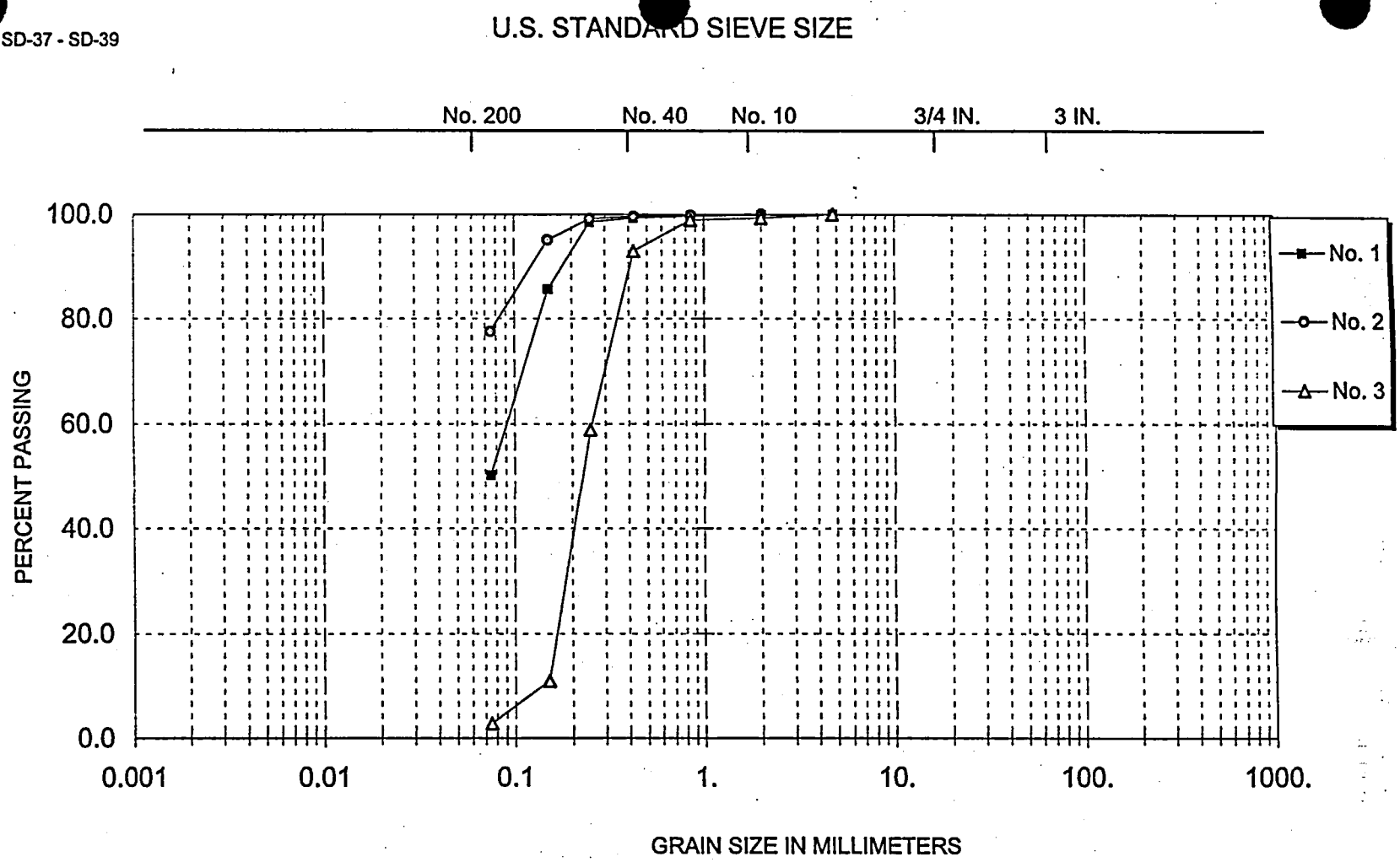
GRADATION CURVES

SWP - Wilmington
Wilmington, NC

CONTRACT NO. 979007.A0

DATE 4/16/01

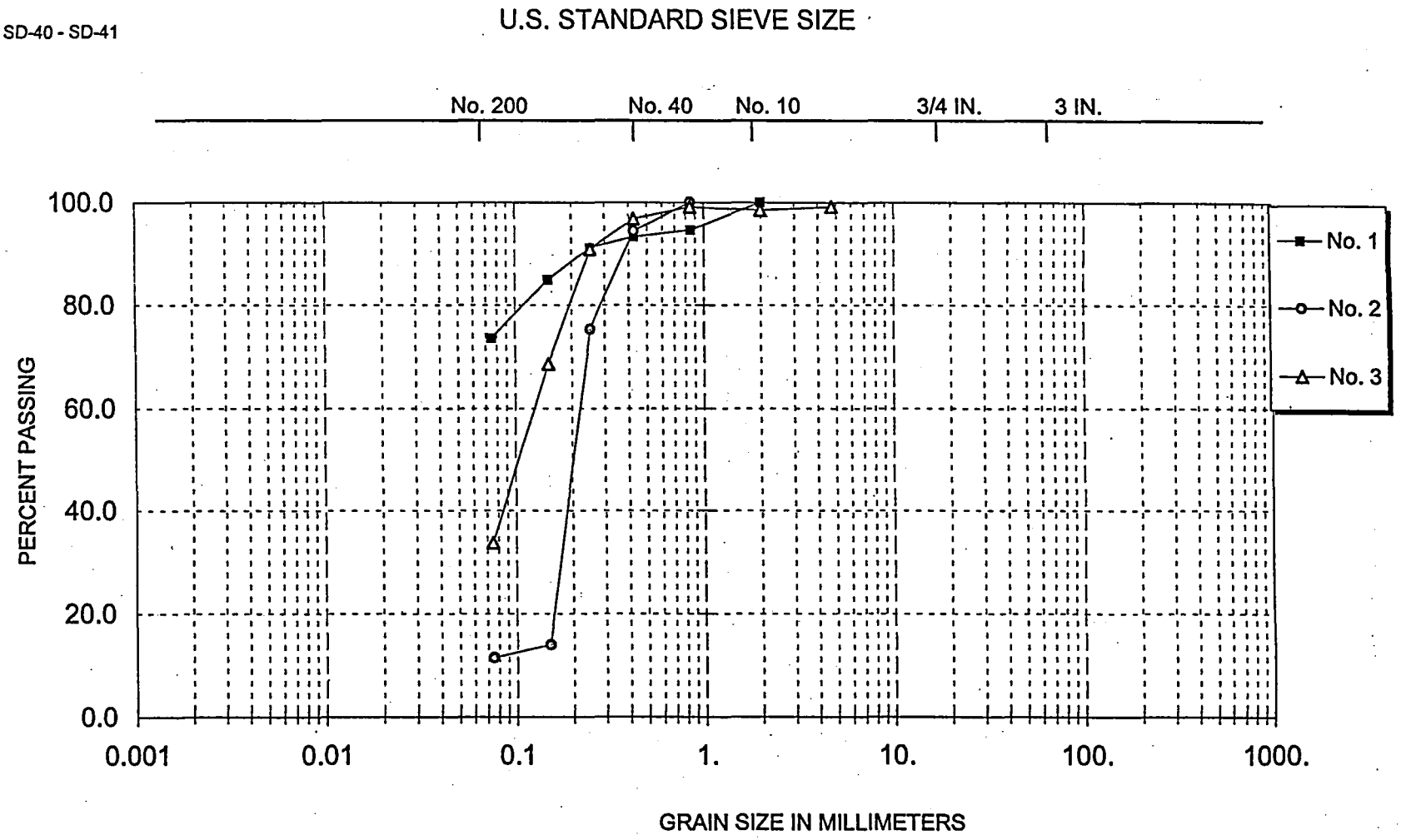
SWP Wil Sieve SD-37 - SD-39



SILT OR CLAY	SAND			GRAVEL		COBBLES
	Fine	Medium	Coarse	Fine	Coarse	

KEY	NO.	DEPTH	DESCRIPTION OF SOIL SAMPLE TESTED	CLASS.	Schnabel Engineering
No. 1	SD-37	0 - 3 "	Silt With Fine to Medium Sand, 14% Organics, 1 ppt Salinity - Dark Brown NP NP	ML	GRADATION CURVES
No. 2	SD-38	0 - 3 "	Silt With Fine Sand, 15% Organics, 1 ppt Salinity - Brown NP NP	ML	SWP - Wilmington Wilmington, NC
No. 3	SD-39	0 - 3 "	Peat with Fine Sand, 70% Organics, 0.01 ppt Salinity - Dark Brown NP NP	PT	CONTRACT NO. 979007.A0 / DATE 4/16/01

SWP Wil Sieve SD-40 - SD-41



SILT OR CLAY	SAND			GRAVEL		COBBLES
	Fine	Medium	Coarse	Fine	Coarse	

KEY	NO.	DEPTH	DESCRIPTION OF SOIL SAMPLE TESTED	CLASS.
No. 1	SD-40	0 - 3 "	Fine to Medium Sandy Silt, 14% Organics, 5 ppt Salinity - Dark Brown NP NP	ML
No. 2	SD-40DF	0 - 3"	Fine to Medium Silty Sand, 1% Organics, 5 ppt Salinity - Dark Brown NP NP	SM
No. 3	SD-41	0 - 3 "	Fine to Medium Silty Sand, 14% Organics, 1 ppt Salinity - Dark Brown NP NP	SM

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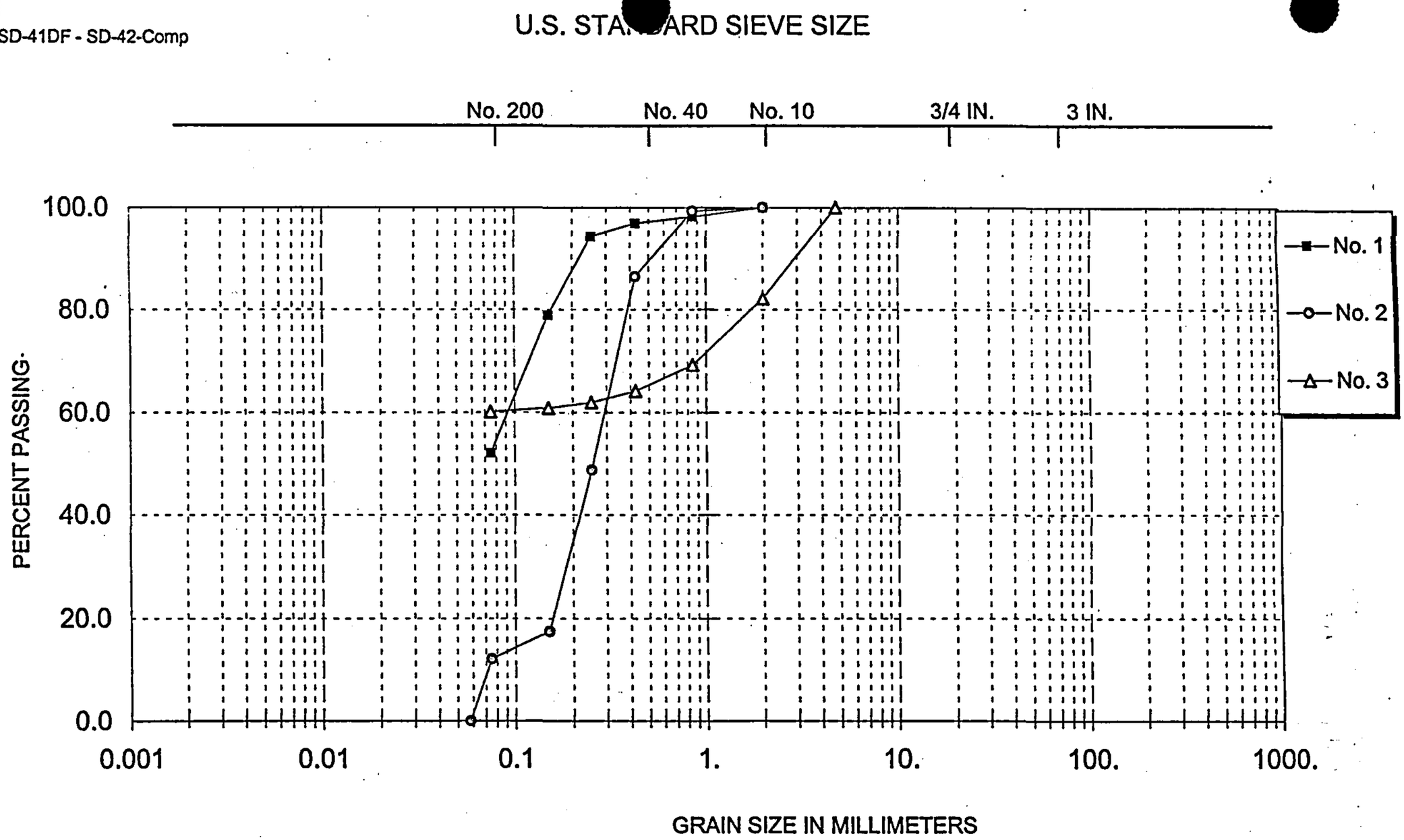
Wilmington, NC

CONTRACT NO. 979007.A0

DATE 4/16/01

SWP Wil Sieve SD-41DF - SD-42-Comp



SILT OR CLAY	SAND			GRAVEL		COBBLES
	Fine	Medium	Coarse	Fine	Coarse	

KEY	NO.	DEPTH	DESCRIPTION OF SOIL SAMPLE TESTED	CLASS.
No. 1	SD-41DF	0 - 3 "	Fine to Medium Sandy Silt, 19% Organics, 0.1 ppt Salinity - Dark Brown NP NP	ML
No. 2	BK-S1DF	0 - 3"	Fine to Medium Poorly Graded Sand with Silt, 1% Organics, 0.1 ppt Salinity - Brown NP NP	SP/SM
No. 3	SD-42-Comp	0 - 3 "	Fine to Coarse Sandy Silt With Peat, 31% Organics, 3 ppt Salinity - Dark Gray and Black NP NP	ML

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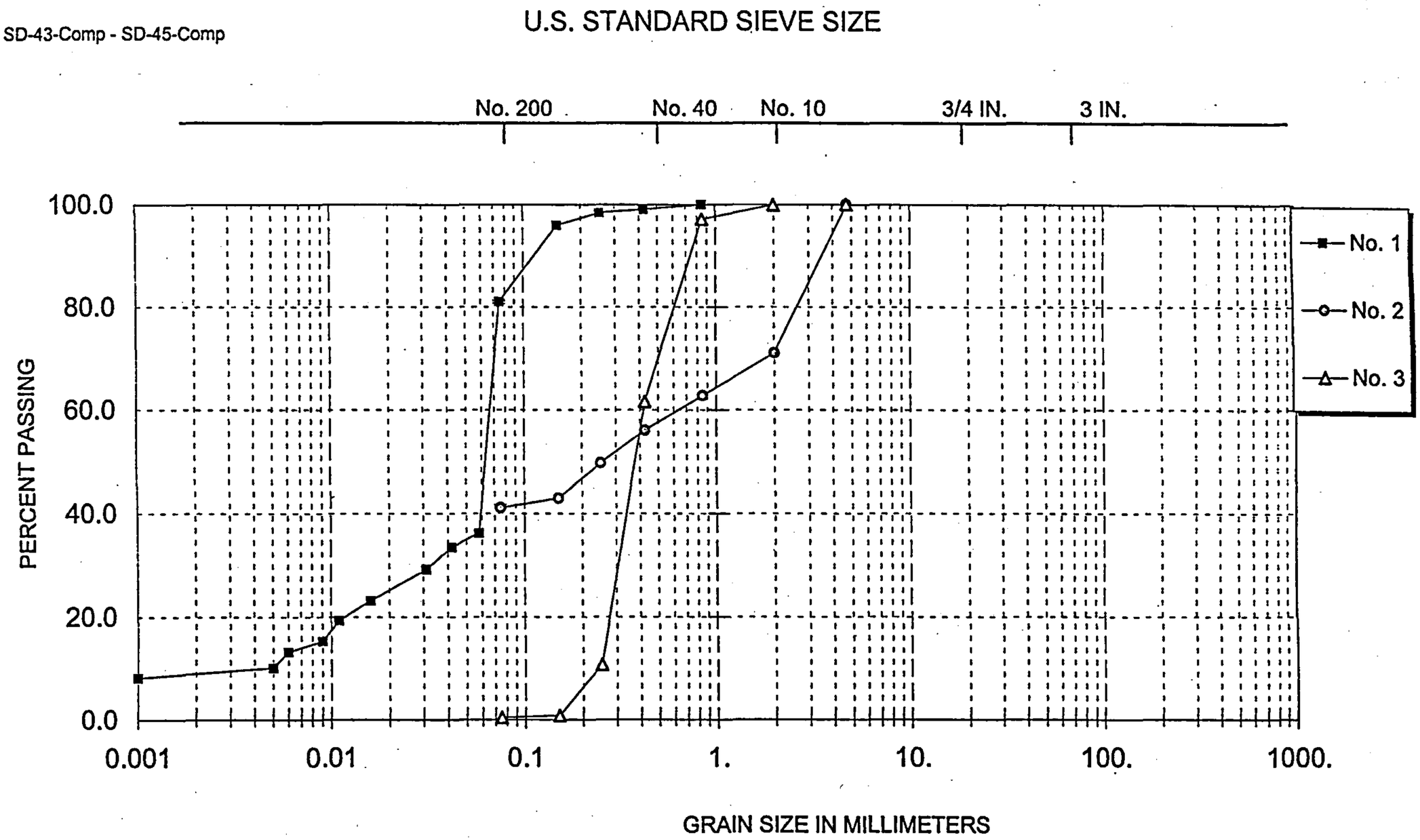
GRADATION CURVES

SWP - Wilmington
Wilmington, NC

CONTRACT NO.	DATE
979007.A0	4/16/01

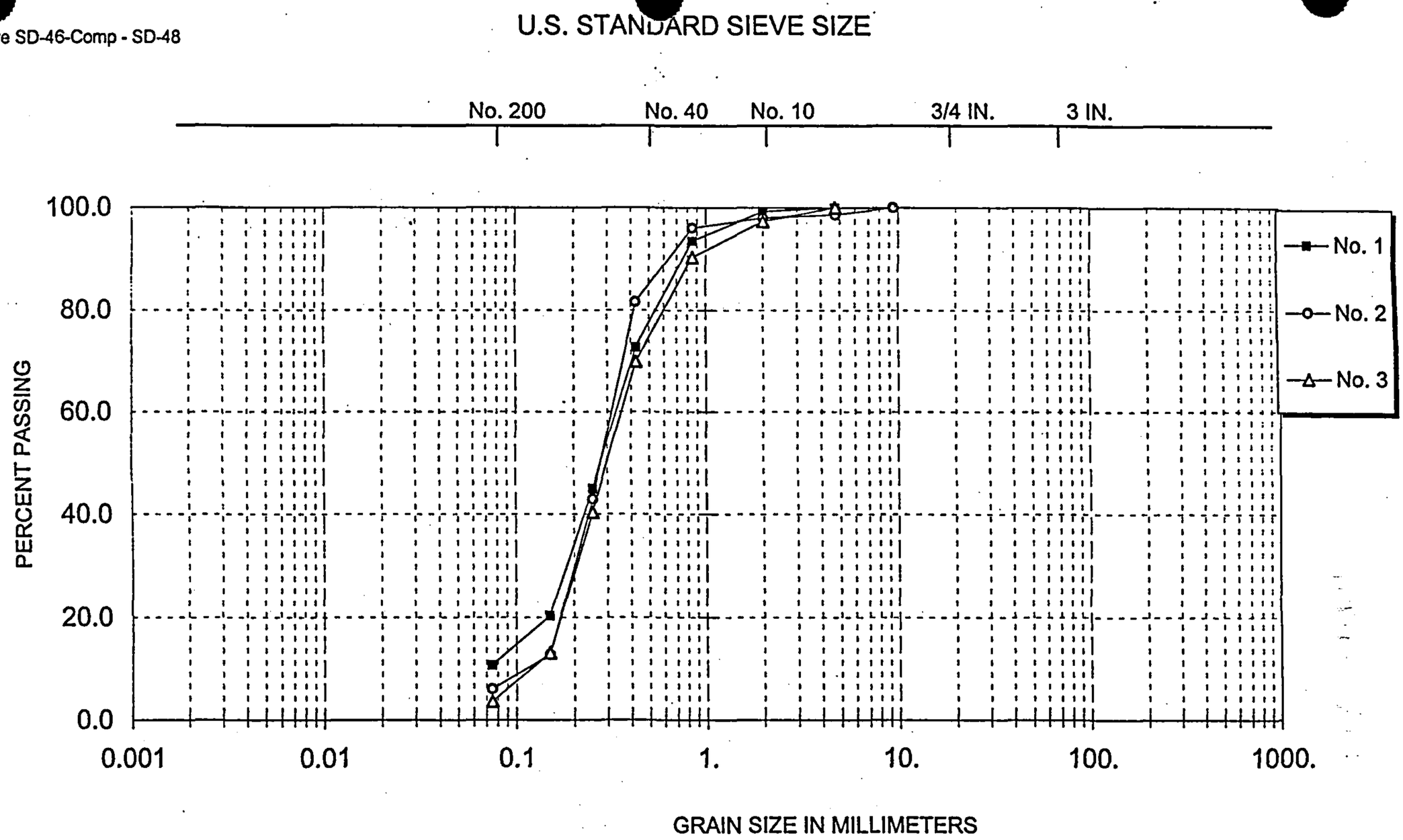
SWP Wil Sieve SD-43-Comp - SD-45-Comp



SILT OR CLAY	SAND			GRAVEL		COBBLES
	Fine	Medium	Coarse	Fine	Coarse	

KEY	NO.	DEPTH	DESCRIPTION OF SOIL SAMPLE TESTED	CLASS.	Schnabel Engineering	
No. 1	SD-43-Comp	0 - 3 "	Silt, Trace Fine Sand, 15% Organics, 2 ppt Salinity - Dark Gray NP NP	ML	GRADATION CURVES	
No. 2	SD-44-Comp	0 - 3"	Fine to Coarse Silty Sand, 24% Organics, 1 ppt Salinity - Brown NP NP	SM	SWP - Wilmington Wilmington, NC	
No. 3	SD-45-Comp	0 - 3 "	Fine to Medium Poorly Graded Sand, Trace Silt, 1% Organics, 0.01 ppt Salinity - Brown NP NP	SP	CONTRACT NO. 979007.A0	DATE 4/16/01

SWP Wil Sieve SD-46-Comp - SD-48



SILT OR CLAY	SAND			GRAVEL		COBBLES
	Fine	Medium	Coarse	Fine	Coarse	

KEY	NO.	DEPTH	DESCRIPTION OF SOIL SAMPLE TESTED	CLASS.
No. 1	SD-46-Comp	0 - 3 "	Fine to Medium Poorly Graded Sand with Silt, 3% Organics, 5 ppt Salinity - Brown NP NP	SM
No. 2	SD-47-Comp	0 - 3"	Fine to Medium Poorly Graded Sand, Trace Silt, 4% Organics, 0.01 ppt Salinity - Brown NP NP	SP
No. 3	SD-48	0 - 3 "	Fine to Medium Poorly Graded Sand, Trace Silt, 3% Organics, 0.01 ppt Salinity - Brown NP NP	SP

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GRADATION CURVES

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Wilmington, NC

CONTRACT NO.	DATE
979007.A0	4/16/01

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Schnabel Engineering Associates, Inc.

104 Corporate Boulevard, Suite 420
West Columbia, SC 29169
Phone (803) 796-6240
Fax (803) 796-6250

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

PROJECT REFERENCE	PROJECT NO.	REQUIRED ANALYSIS	PAGE 1 OF 6
SWP-Wilmington	979007.A0-28		
CLIENT Southern Wood Piedmont	P.O. NUMBER		STANDARD REPORT DELIVERY X
PROJECT MANAGER Bill Arrants	CLIENT E-MAIL william.arrants@rayonier.com		EXPEDITED REPORT DELIVERY _____
CLIENT ADDRESS P.O. Box 5447 Spartanburg, SC 29304	CLIENT PHONE/FAX 864-599-1070 ext. 111 864-599-1087		DATE DUE _____
SAMPLER NAME Gregory B. Kuntz	SAMPLER SIGNATURE Gregory B. Kuntz		

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE DEPTH	Moisture content	Compaction Testing (Method)	Sieve Analysis (full)	CBR (Method)	Fire Proofing	Asbestos Bulk Sample PLM	Salinity	Organic Content	Hydrometer			REMARKS
			NUMBER OF CONTAINERS SUBMITTED											
SS-9DF	10/24/00	0 - 3 inches			1				1	1	1			
SS-10A-DF	10/24/00	0 - 3 inches			1				1	1	1			
SD-07DF	10/24/00	0 - 3 inches			1				1	1	1			
SD-06DF	10/24/00	0 - 3 inches			1				1	1				
SD-41DF	10/24/00	0 - 3 inches			1				1	1				
BK-S1DF	10/24/00	0 - 3 inches			1				1	1	1			
SS-23DF	10/24/00	0 - 3 inches			1				1	1				
SS-21DF	10/24/00	0 - 3 inches			1				1	1				
SS-19DF	10/24/00	0 - 3 inches			1				1	1				
SS-16DF	10/24/00	0 - 3 inches			1				1	1				
SD-40DF	10/24/00	0 - 3 inches			1				1	1				

Special Instructions:

LABORATORY COMMENTS:

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Gregory B. Kuntz	10/25/00	14:00	Samantha Manning	10-25-00	1405
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

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Schnabel Engineering Associates, Inc.

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Fax (803) 796-6250

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

PROJECT REFERENCE	PROJECT NO.	REQUIRED ANALYSIS	PAGE 2 OF 6
SWP-Wilmington	979007.A0-28		
CLIENT Southern Wood Piedmont	P.O. NUMBER		STANDARD REPORT DELIVERY X
PROJECT MANAGER Bill Arrants	CLIENT E-MAIL william.arrants@rayonier.com		EXPEDITED REPORT DELIVERY _____
CLIENT ADDRESS P.O. Box 5447 Spartanburg, SC 29304	CLIENT PHONE/FAX 864-599-1070 ext. 111 864-599-1087		DATE DUE _____
SAMPLER NAME Gregory B. Kuntz	SAMPLER SIGNATURE Gregory B. Kuntz		

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE DEPTH	Moisture content	Compaction Testing (Method)	Sieve Analysis (full)	CBR (Method)	Fire Proofing	Asbestos Bulk Sample PLM	Salinity	Organic Content	Hydrometer			REMARKS
			NUMBER OF CONTAINERS SUBMITTED											
SD-35	1/10/01	0 - 3 inches			1				1	1				
SD-34	1/10/01	0 - 3 inches			1				1	1				
SD-09	1/10/01	0 - 3 inches			1				1	1				
SD-33	1/10/01	0 - 3 inches			1				1	1				
SD-32	1/10/01	0 - 3 inches			1				1	1				
SS-11	1/10/01	0 - 3 inches			1				1	1				
SD-31	1/10/01	0 - 3 inches			1				1	1				
SD-30	1/10/01	0 - 3 inches			1				1	1				
SS-24	1/10/01	0 - 3 inches			1				1	1				
SD-10	1/11/01	0 - 3 inches			1				1	1				
SS-22	1/11/01	0 - 3 inches			1				1	1				
SS-20	1/11/01	0 - 3 inches			1				1	1	1			

Special Instructions:

LABORATORY COMMENTS:

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Gregory B. Kuntz	1/12/01	16:30	Lamont H. Manning	1-12-01	1635
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

PROJECT REFERENCE	PROJECT NO.	REQUIRED ANALYSIS	PAGE 3	OF 6
SWP-Wilmington	979007.A0-28			
CLIENT Southern Wood Piedmont	P.O. NUMBER		STANDARD REPORT DELIVERY X	
PROJECT MANAGER Bill Arrants	CLIENT E-MAIL william.arrants@rayonier.com		EXPEDITED REPORT DELIVERY _____	
CLIENT ADDRESS P.O. Box 5447 Spartanburg, SC 29304	CLIENT PHONE/FAX 864-599-1070 ext. 111 864-599-1087		DATE DUE _____	
SAMPLER NAME Gregory B. Kuntz	SAMPLER SIGNATURE Gregory B. Kuntz			

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE DEPTH	Moisture content	Compaction Testing (Method)	Sieve Analysis (full)	CBR (Method)	Fire Proofing	Asbestos Bulk Sample PLM	Salinity	Organic Content	Hydrometer			REMARKS
			NUMBER OF CONTAINERS SUBMITTED											
SD-11	1/11/01	0 - 3 inches			1				1	1	1			
SS-18	1/11/01	0 - 3 inches			1				1	1				
SS-17	1/11/01	0 - 3 inches			1				1	1				
SS-15	1/11/01	0 - 3 inches			1				1	1	1			
SD-40	1/11/01	0 - 3 inches			1				1	1				
SD-46-COMP	1/18/01	0 - 3 inches			1				1	1				
SD-45-COMP	1/18/01	0 - 3 inches			1				1	1				
SD-44-COMP	1/18/01	0 - 3 inches			1				1	1				
SD-43-COMP	1/18/01	0 - 3 inches			1				1	1	1			
SD-42-COMP	1/18/01	0 - 3 inches			1				1	1	1			
SD-47-COMP	1/18/01	0 - 3 inches			1				1	1				
SD-29	1/23/01	0 - 3 inches			1				1	1				

Special Instructions:

LABORATORY COMMENTS:

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Gregory B. Kuntz	1/24/01	9:30	Samuel H. Maney	1-24-01	0932
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

PROJECT REFERENCE	PROJECT NO.	REQUIRED ANALYSIS	PAGE 4 OF 6
SWP-Wilmington	979007.A0-28		
CLIENT Southern Wood Piedmont	P.O. NUMBER		STANDARD REPORT DELIVERY X
PROJECT MANAGER Bill Arrants	CLIENT E-MAIL william.arrants@rayonier.com		EXPEDITED REPORT DELIVERY _____
CLIENT ADDRESS P.O. Box 5447 Spartanburg, SC 29304	CLIENT PHONE/FAX 864-599-1070 ext. 111 864-599-1087		DATE DUE _____
SAMPLER NAME Gregory B. Kuntz	SAMPLER SIGNATURE Gregory B. Kuntz		

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE DEPTH	Moisture content	Compaction Testing (Method)	Sieve Analysis (full)	CBR (Method)	Fire Proofing	Asbestos Bulk Sample PLM	Salinity	Organic Content	Hydrometer			REMARKS
			NUMBER OF CONTAINERS SUBMITTED											
SD-08	1/23/01	0 - 3 inches			1				1	1				
SS-12	1/23/01	0 - 3 inches			1				1	1				
SS-13	1/23/01	0 - 3 inches			1				1	1				
SS-01	1/23/01	0 - 3 inches			1				1	1				
SD-20	1/23/01	0 - 3 inches			1				1	1				
SD-28	1/23/01	0 - 3 inches			1				1	1	1			
SD-27	1/23/01	0 - 3 inches			1				1	1				
SD-26	1/23/01	0 - 3 inches			1				1	1	1			
SS-7	1/24/01	0 - 3 inches			1				1	1				
SS-2	1/24/01	0 - 3 inches			1				1	1				
SD-22	1/24/01	0 - 3 inches			1				1	1				
SD-21	1/24/01	0 - 3 inches			1				1	1				

Special Instructions:

LABORATORY COMMENTS:

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Gregory B. Kuntz	1/25/01	12:00	[illegible]	1-25-01	1205
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Schnabel
Schnabel Engineering Associates, Inc.

104 Corporate Boulevard, Suite 420
West Columbia, SC 29169
Phone (803) 796-6240
Fax (803) 796-6250

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

PROJECT REFERENCE	PROJECT NO.	REQUIRED ANALYSIS	PAGE 5 OF 6
SWP-Wilmington	979007.A0-28		
CLIENT Southern Wood Piedmont	P.O. NUMBER		STANDARD REPORT DELIVERY X
PROJECT MANAGER Bill Arrants	CLIENT E-MAIL william.arrants@rayonier.com		EXPEDITED REPORT DELIVERY _____
CLIENT ADDRESS P.O. Box 5447 Spartanburg, SC 29304	CLIENT PHONE/FAX 864-599-1070 ext. 111 864-599-1087		DATE DUE
SAMPLER NAME Gregory B. Kuntz	SAMPLER SIGNATURE Gregory B. Kuntz		

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE DEPTH	Moisture content	Compaction Testing (Method)	Sieve Analysis (full)	CBR (Method)	Fire Proofing	Asbestos Bulk Sample PLM	Salinity	Organic Content	Hydrometer			REMARKS
			NUMBER OF CONTAINERS SUBMITTED											
SD-03	1/24/01	0 - 3 inches			1				1	1				
SS-3	1/24/01	0 - 3 inches			1				1	1				
SS-4	1/24/01	0 - 3 inches			1				1	1	1			
SS-6	1/24/01	0 - 3 inches			1				1	1				
SS-5	1/24/01	0 - 3 inches			1				1	1				
SD-25	1/24/01	0 - 3 inches			1				1	1				
SD-13	1/25/01	0 - 3 inches			1				1	1	1			
SD-24	1/25/01	0 - 3 inches			1				1	1				
SD-23	1/25/01	0 - 3 inches			1				1	1				
SD-05	1/25/01	0 - 3 inches			1				1	1	1			
SD-41	1/25/01	0 - 3 inches			1				1	1				
SD-38	1/25/01	0 - 3 inches			1				1	1				

Special Instructions:

LABORATORY COMMENTS:

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Gregory B. Kuntz	1/26/01	18:00	Janet H Mang	1-26-01	1810
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

PROJECT REFERENCE	PROJECT NO.	REQUIRED ANALYSIS	PAGE 6	OF 6
SWP-Wilmington	979007.A0-28			
CLIENT Southern Wood Piedmont	P.O. NUMBER		STANDARD REPORT DELIVERY X	
PROJECT MANAGER Bill Arrants	CLIENT E-MAIL william.arrants@rayonier.com		EXPEDITED REPORT DELIVERY _____	
CLIENT ADDRESS P.O. Box 5447 Spartanburg, SC 29304	CLIENT PHONE/FAX 864-599-1070 ext. 111 864-599-1087		DATE DUE _____	
SAMPLER NAME Gregory B. Kuntz	SAMPLER SIGNATURE Gregory B. Kuntz			

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE DEPTH	Moisture content	Compaction Testing (Method)	Sieve Analysis (full)	CBR (Method)	Fire Proofing	Asbestos Bulk Sample PLM	Salinity	Organic Content	Hydrometer			REMARKS
			NUMBER OF CONTAINERS SUBMITTED											
SD-36	1/25/01	0 - 3 inches			1				1	1				
SD-37	1/25/01	0 - 3 inches			1				1	1				
SD-14	1/25/01	0 - 3 inches			1				1	1	1			
SD-19	1/25/01	0 - 3 inches			1				1	1				
SD-18	1/25/01	0 - 3 inches			1				1	1				
SD-17	1/25/01	0 - 3 inches			1				1	1				
SD-16	1/25/01	0 - 3 inches			1				1	1				
SD-15	1/25/01	0 - 3 inches			1				1	1				
SD-48	1/25/01	0 - 3 inches			1				1	1				
SD-39	2/19/01	0 - 3 inches			1				1	1				

Special Instructions:

LABORATORY COMMENTS:

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Gregory B. Kuntz	2/20/01	18:15	[illegible]	2-20-01	1817
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

ATTACHMENT E

Geoprobe Coring

Geoprobe Coring

Geoprobe Coring

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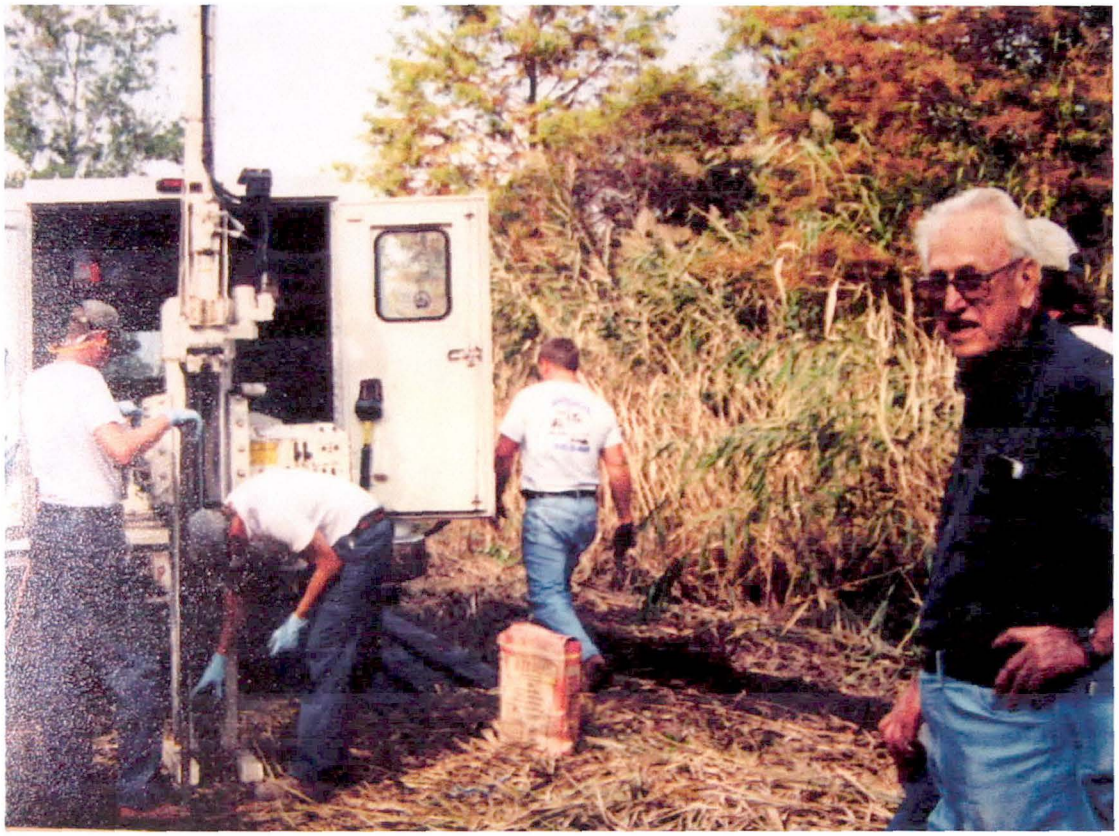
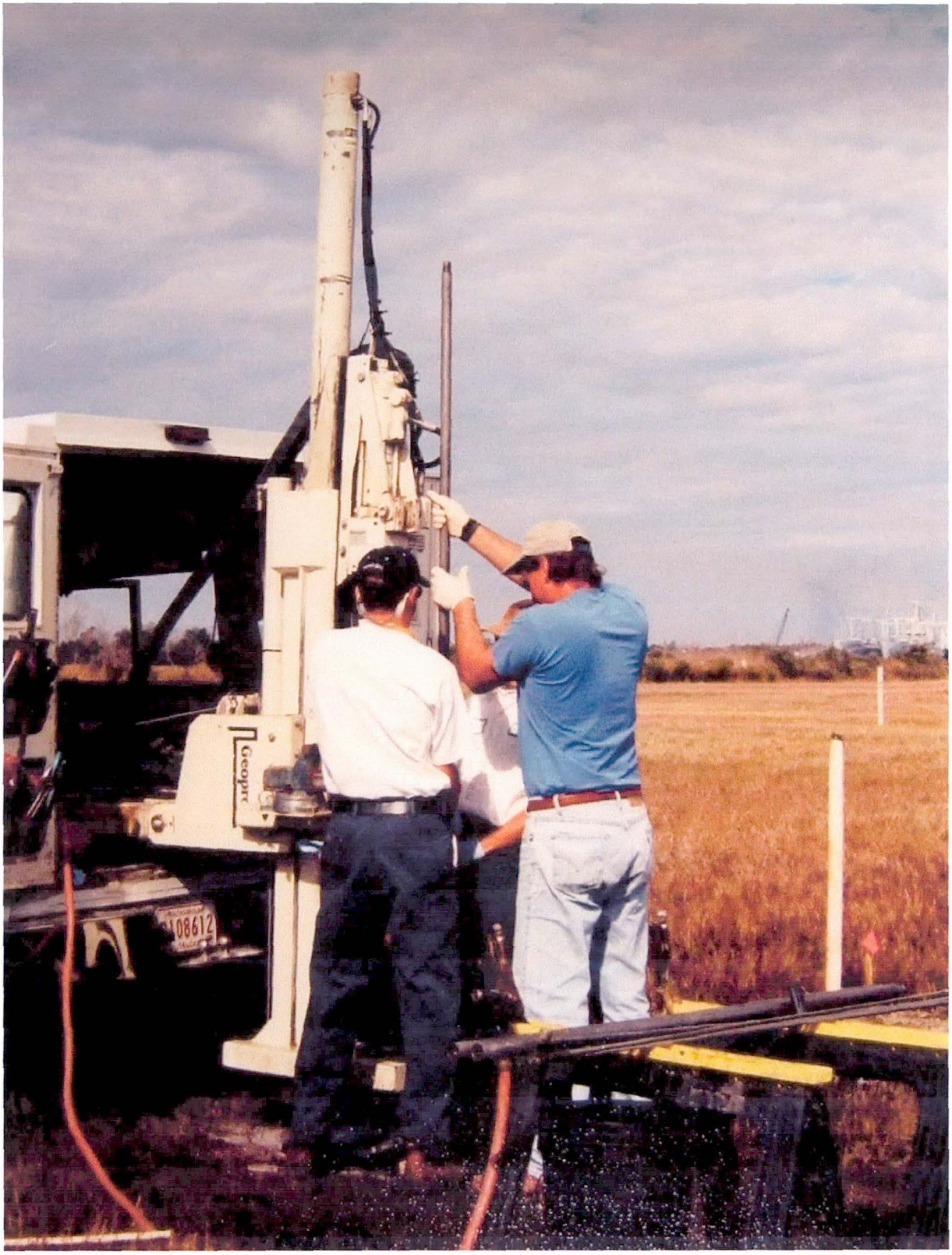


Geoprobe Coring



Geoprobe Coring

Well Installation

Well Installation

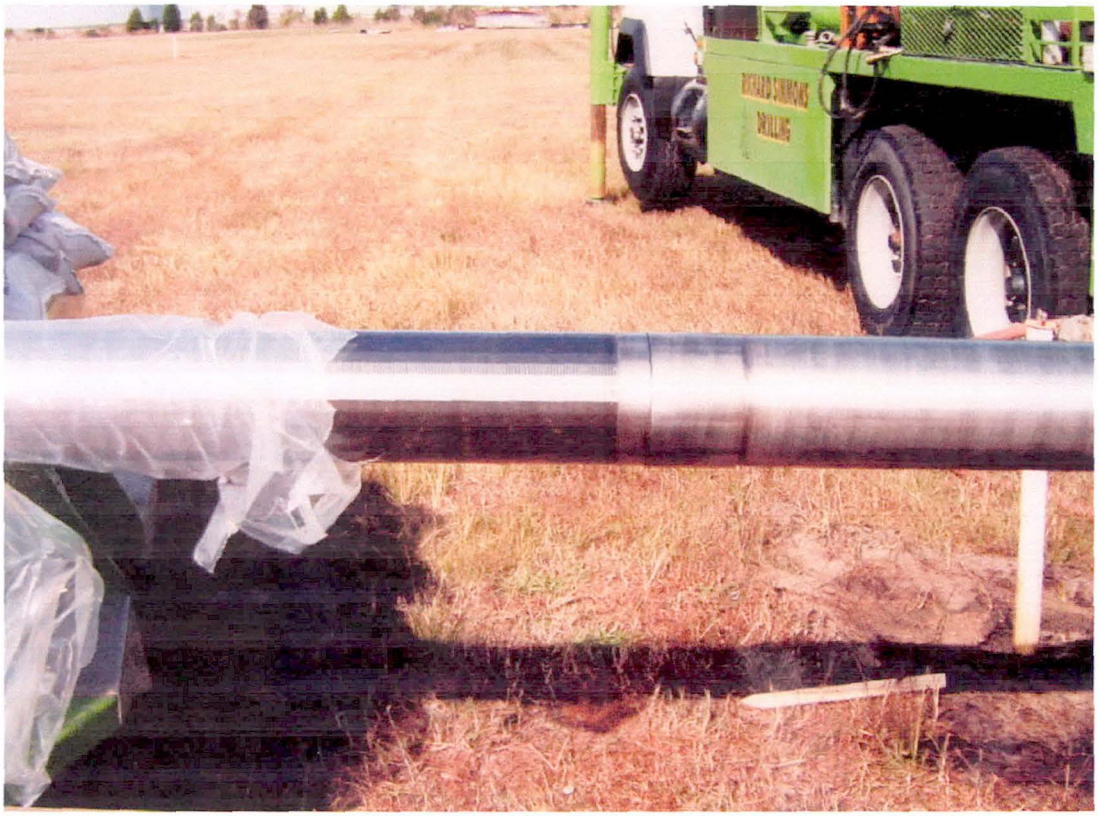
Well Installation

Well Installation

Well Installation

Well Installation

Well Installation



Well Installation

Well Installation

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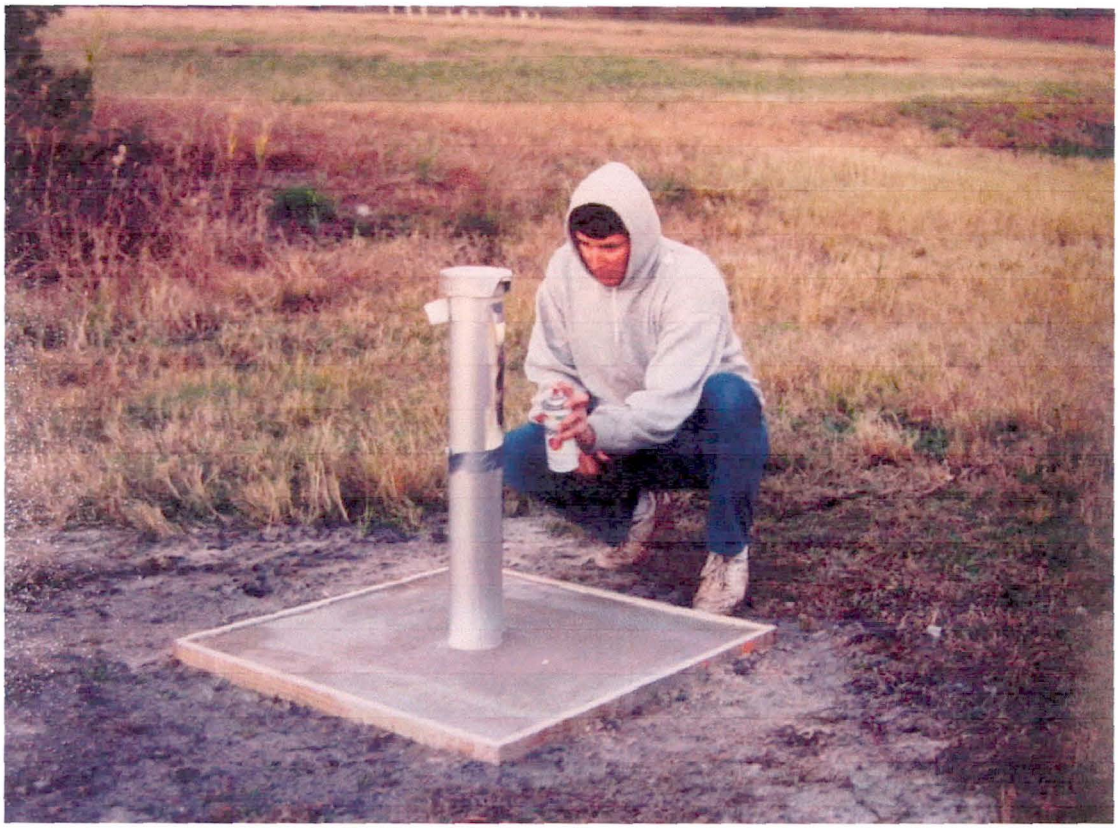
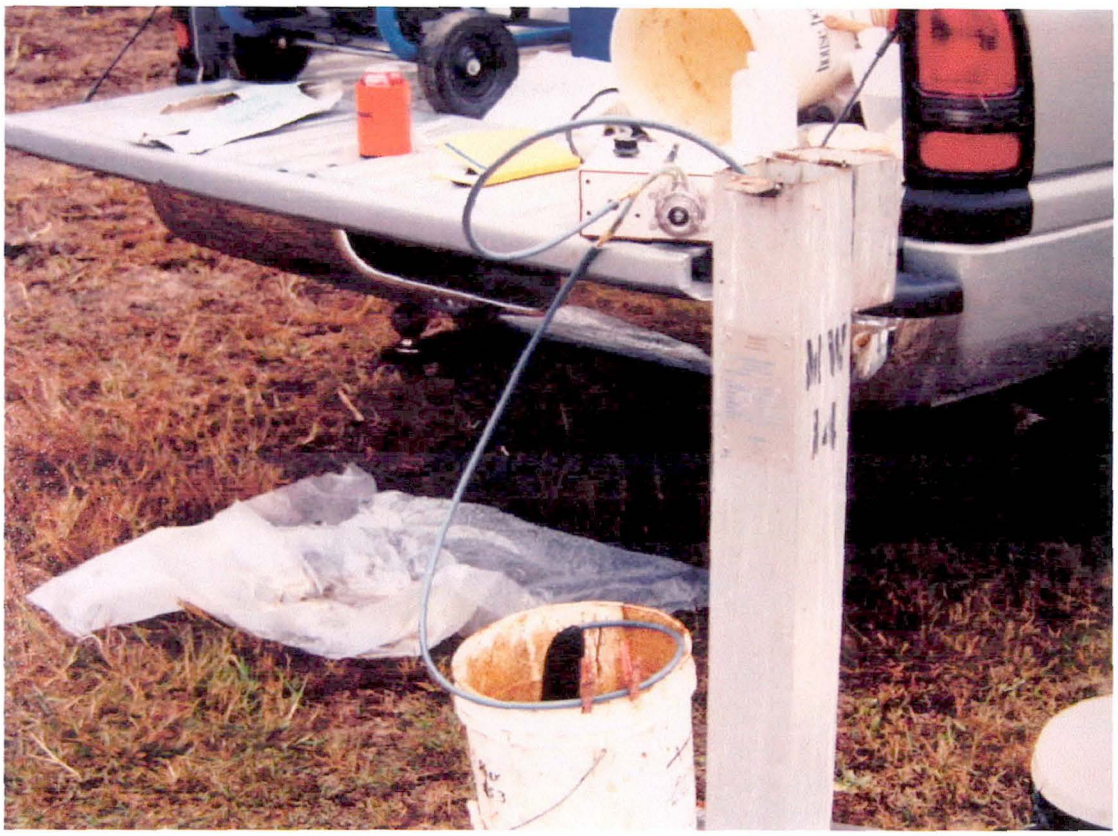


Well Installation

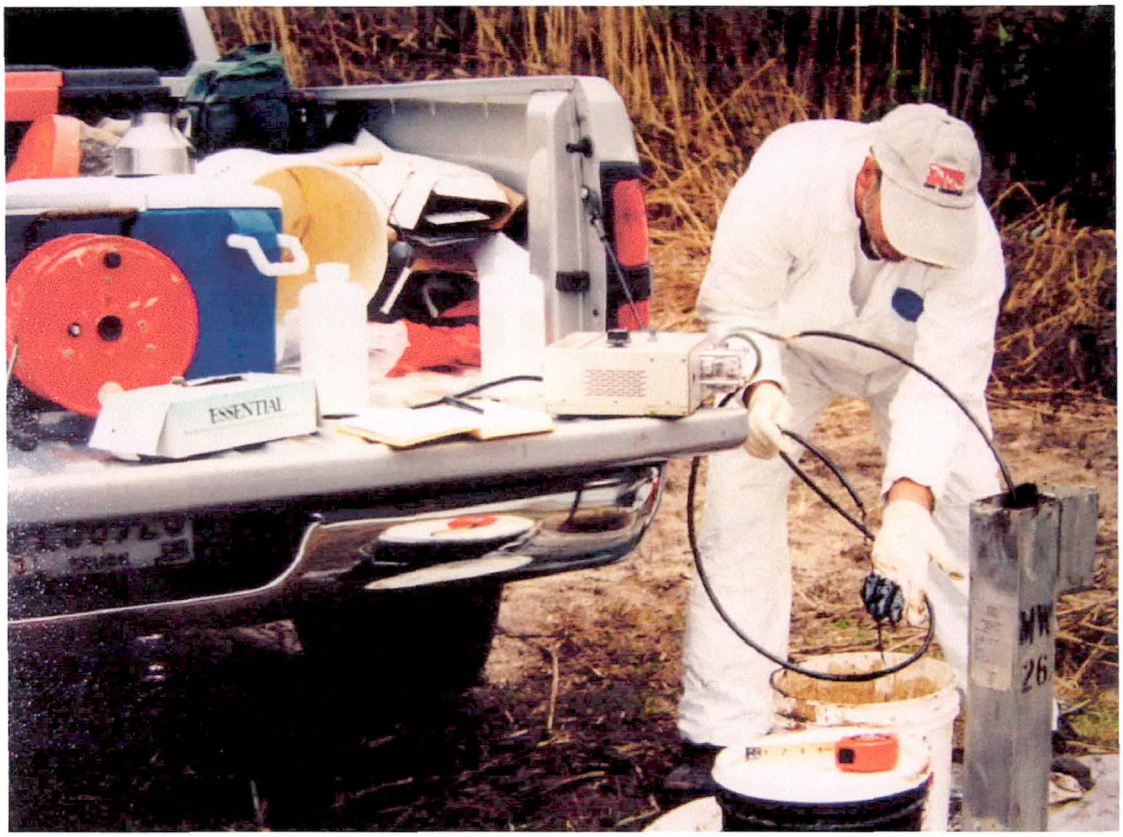
Well Installation



DNAPL Recovery Testing

DNAPL Recovery Testing

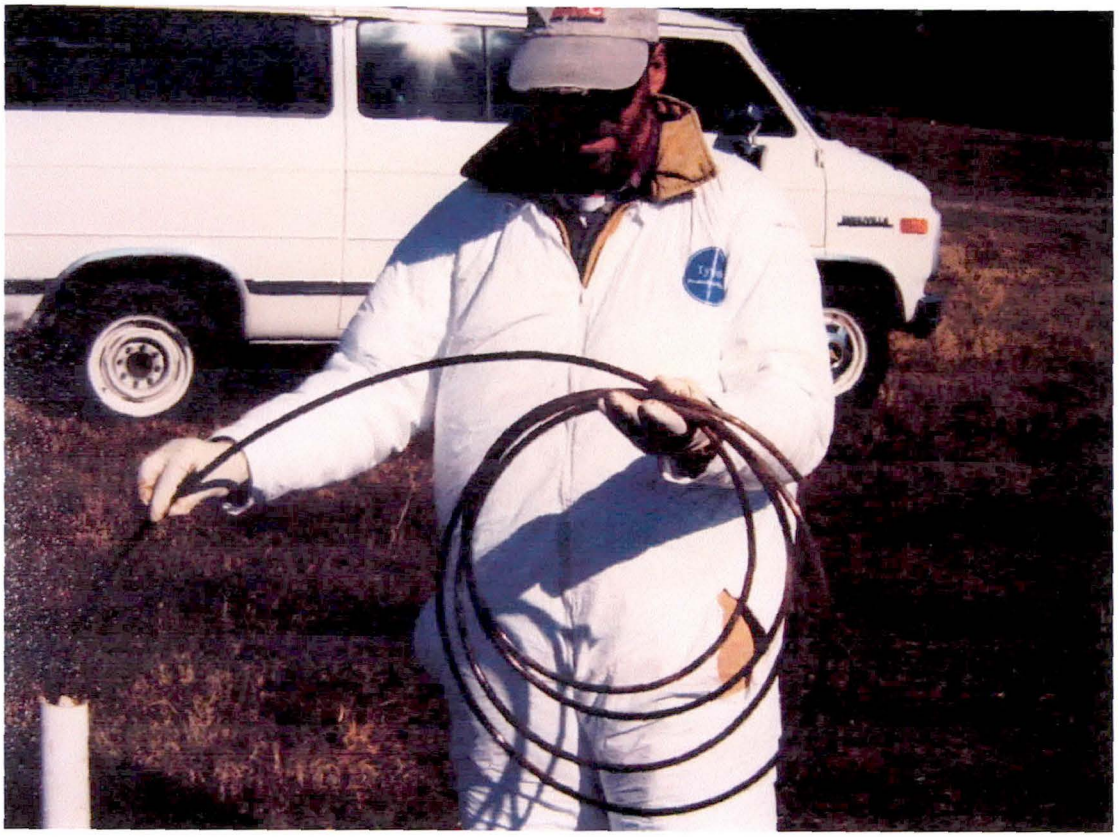
DNAPL Recovery Testing



DNAPL Recovery Testing

DNAPL Recovery Testing

DNAPL Recovery Testing



DNAPL Recovery Testing

DNAPL Recovery Testing

DNAPL Recovery Testing

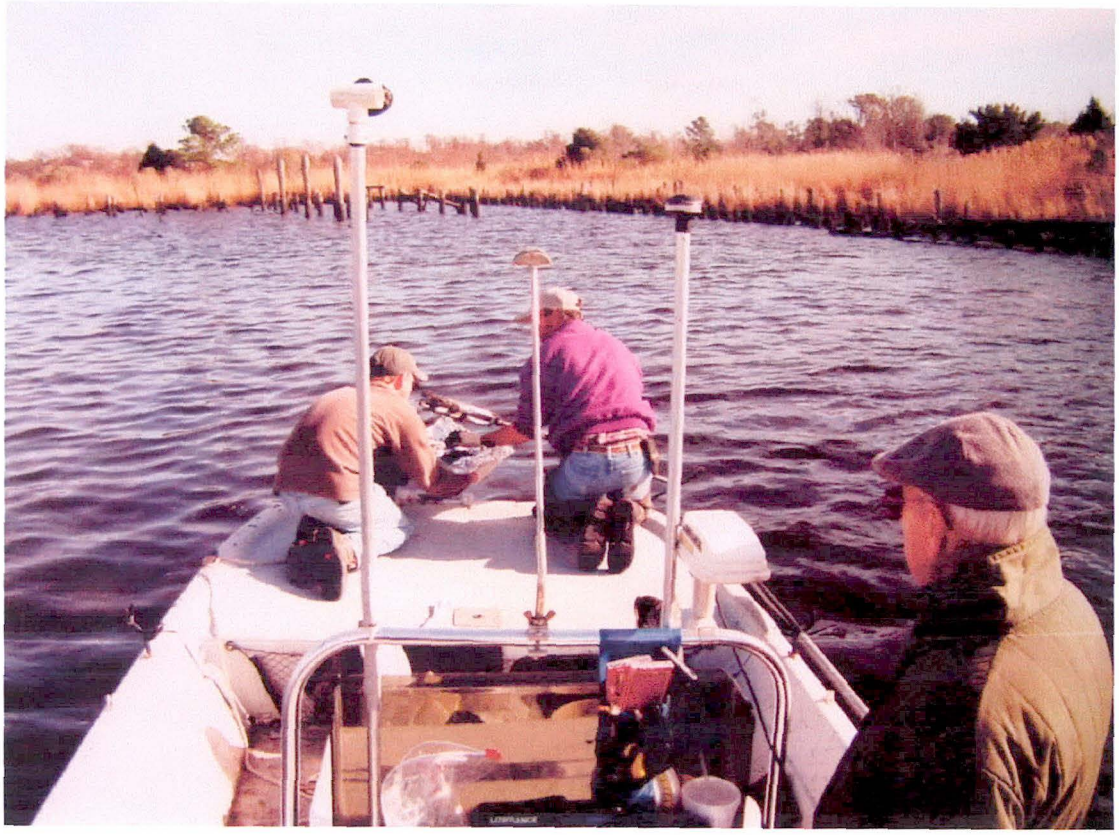
DNAPL Recovery Testing

DNAPL Recovery Testing

Sediment Sampling

Sediment Sampling

Sediment Sampling



Sediment Sampling

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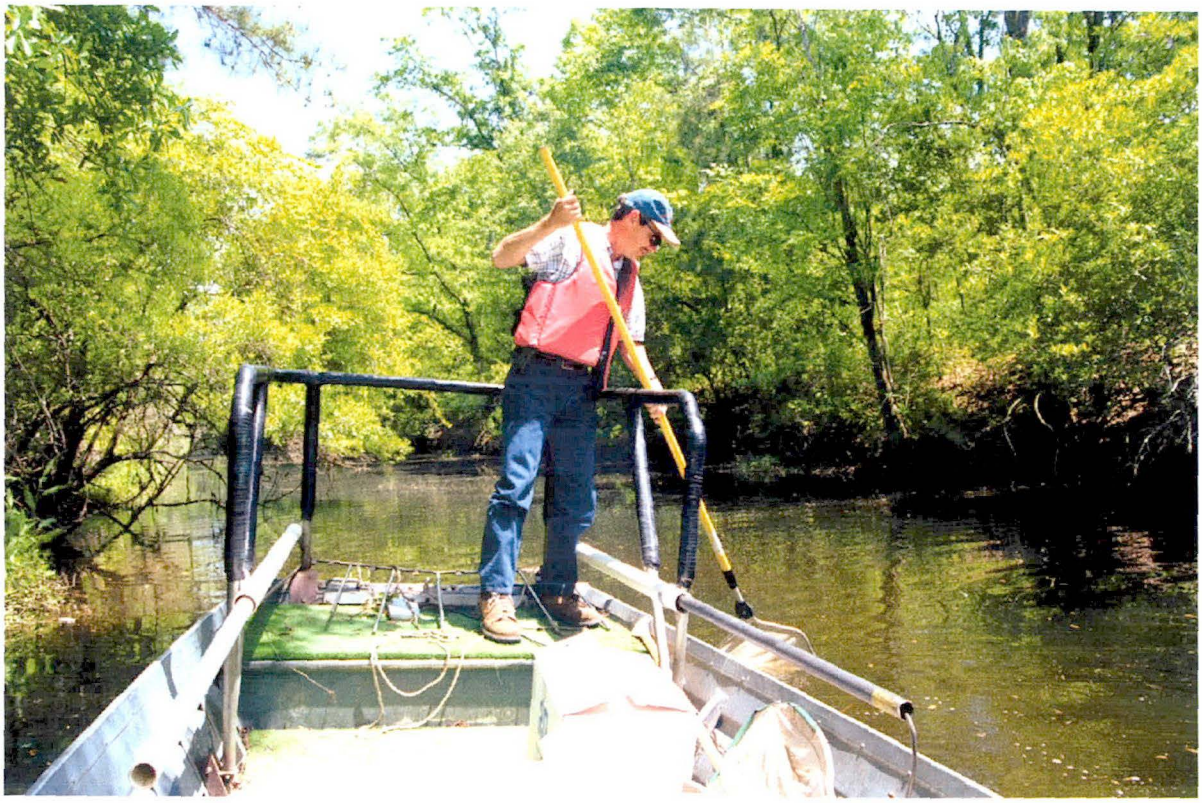
Sediment Sampling

Fish Sampling

Fish Sampling

Fish Sampling



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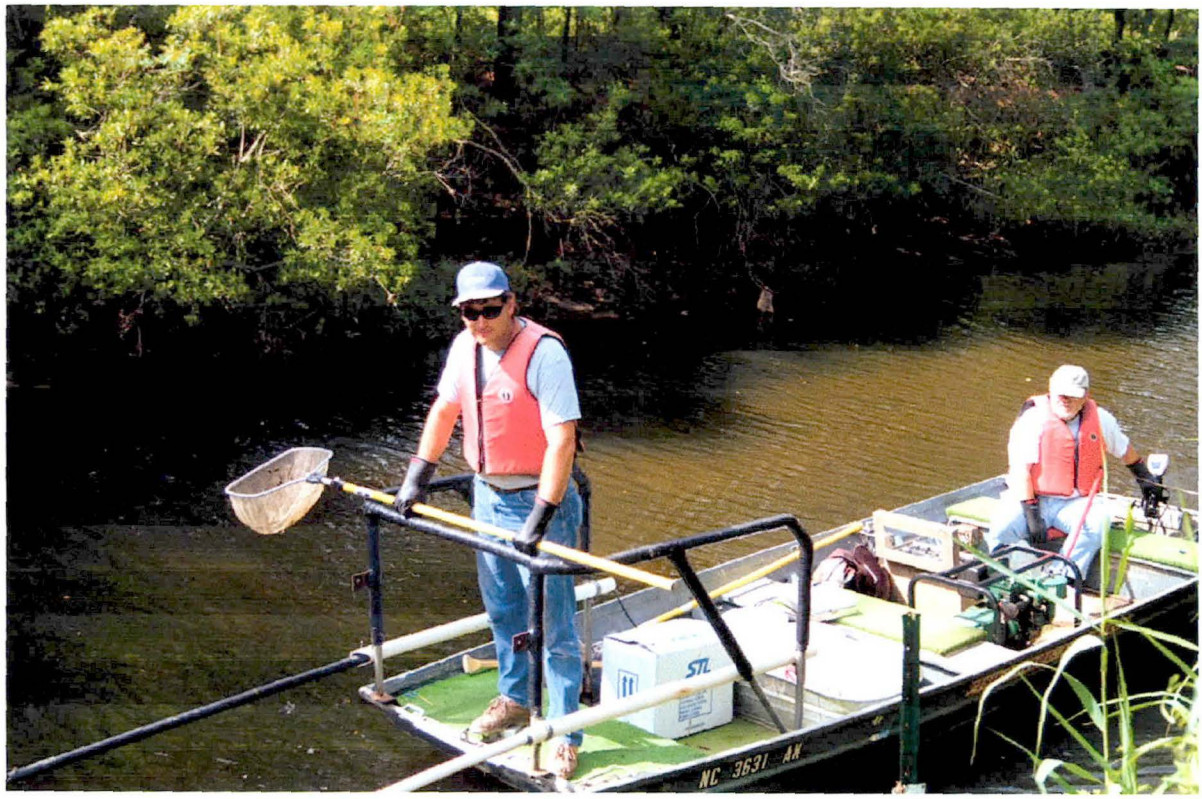
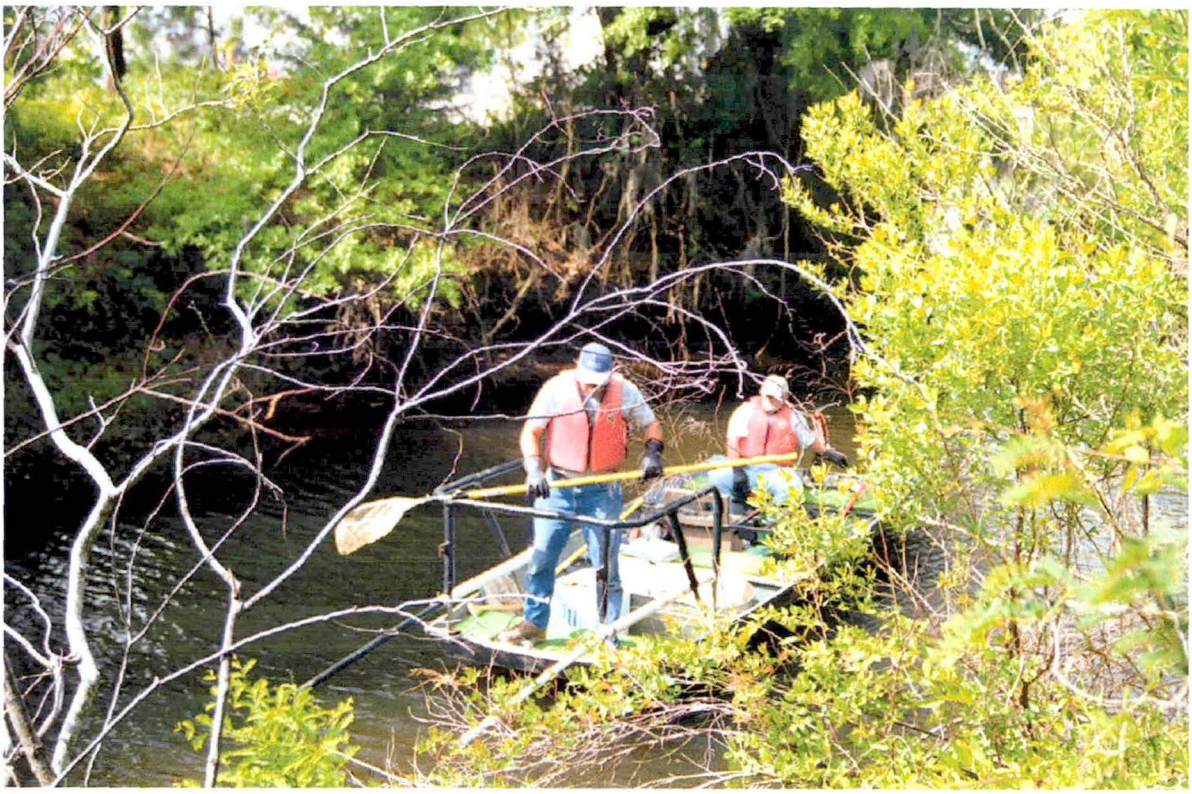


Fish Sampling

Fish Sampling



Fish Sampling

Fish Sampling

Fish Sampling

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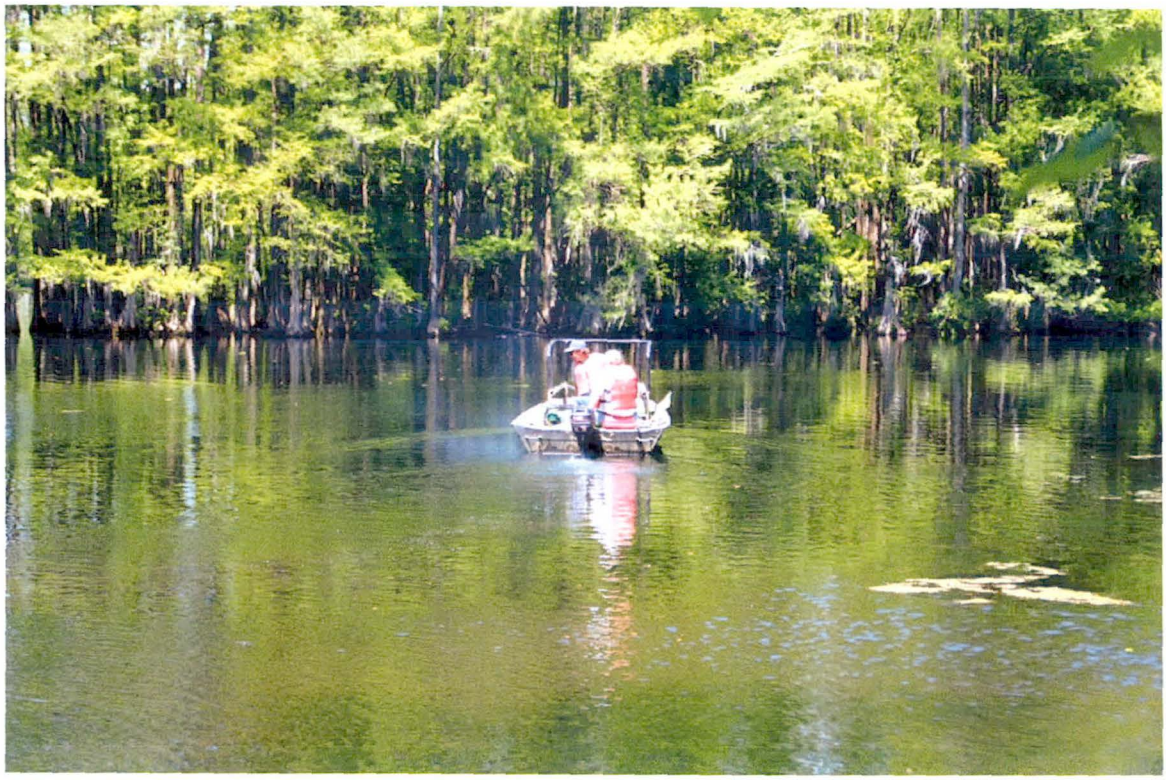
Fish Sampling



Fish Sampling

Southern Wood Piedmont Site

Southern Wood Piedmont Site

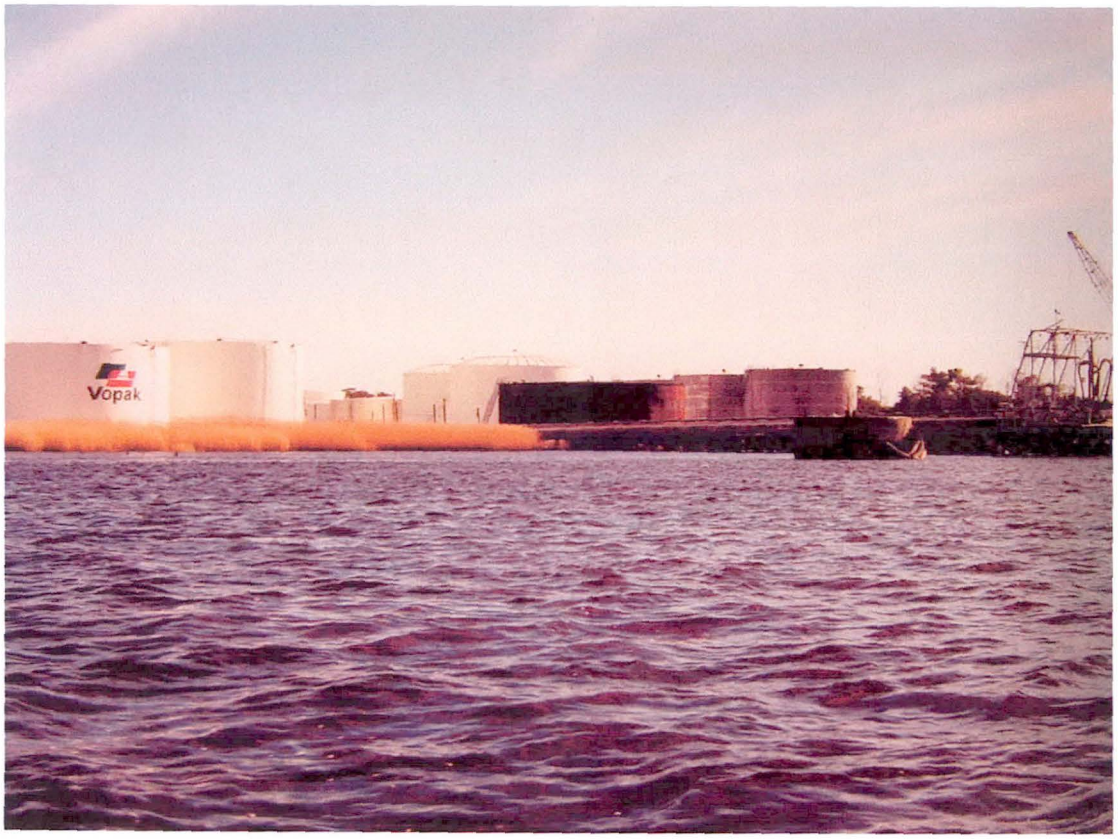
Southern Wood Piedmont Site

Southern Wood Piedmont Site

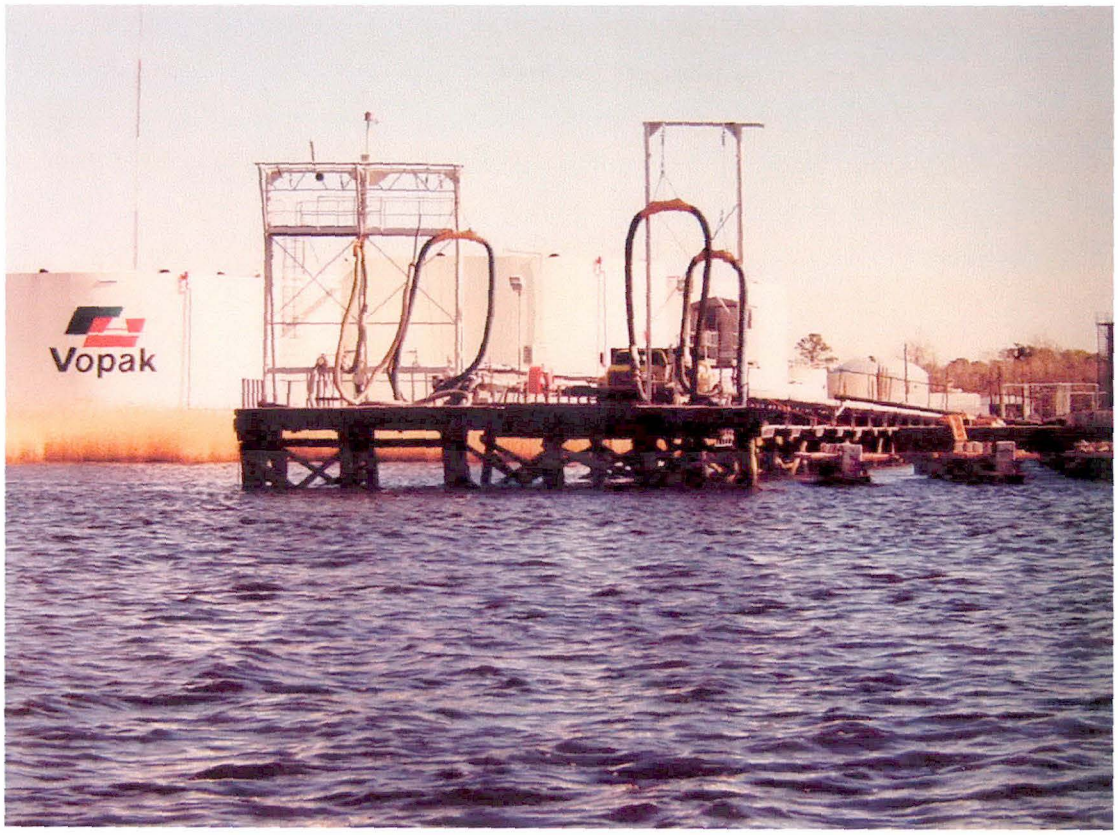
Southern Wood Piedmont Site

Amerada Hess Bulk Petroleum Storage Facility

Amerada Hess Bulk Petroleum Storage Facility



Vopak Bulk Chemical Storage Facility



Vopak Bulk Chemical Storage Facility

Vopak Bulk Chemical Storage Facility