Moore&VanAllen

William A. White
Attorney at Law

T 704 331 1098
F 704 378 2098
billwhite@mvalaw.com

Moore & Van Allen PLLC

Suite 4700
100 North Tryon Street
Charlotte, NC 28202-4003

Received
JAN 2008
Waste Management

By Hand Delivery

January 18, 2008

Jaclynne Drummond
Hydrogeologist
Solid Waste Section
401 Oberlin Road Suite 150
1646 Mail Service Center
Raleigh, NC 27699-1646

Re: Assessment Monitoring Report—Swift Creek Coal Combustion By-products Structural Fill Site

Dear Ms. Drummond:

Enclosed please find the completed Assessment Monitoring Report for The Swift Creek Project, Highway 301, Nash County Rocky Mount, North Carolina. This report is dated January, 2008. It was prepared for REUSE TECHNOLOGY, INC., Charlotte, North Carolina, by Sherrill Environmental, Inc., Durham, North Carolina.

We will be happy to respond to any questions you may have concerning the report
Very truly yours,

Moore & Van Allen PLLC

William A. White

cc: Robert Waldrop
Mark Casper

Receiv
JAN
Solid
Sec

Assessment Monitoring Report
November 22, 2007
Swift Creek Project
Highway 301

Received
JAN 2008
Waste Management

Nash County
Rocky Mount, North Carolina

Prepared for:
REUSE TECHNOLOGY, INC.
Charlotte, North Carolina

January 2008

NORTH CAROLINA
LICENSED
SEAL
1459
1/17/08
GEOLOGIST
JOHN F. SHERRILL, III

Prepared by:

Sherrill Environmental, Inc.

Durham, North Carolina

TABLE OF CONTENTS

1.0 INTRODUCTION
2.0 SITE GEOLOGY
3.0 MONITORING WELLS
4.0 GROUNDWATER TABLE
5.0 WATER LEVELS IN ASH STRUCTURAL FILL
6.0 SAMPLE COLLECTION
7.0 GROUNDWATER ANALYSIS
8.0 SURFACE WATER ANALYSIS
9.0 DISCUSSION AND SUMMARY

LIST OF TABLES

Table 1 Groundwater Elevations
Table 2 Piezometer Data
Table 3 Summary of Groundwater Analyses
Table 4 Summary of Surface Water Analyses

LIST OF FIGURES

Figure 1 Site Location Map
Figure 2 Site Map
Figure 3 West-East Cross Section
Figure 4 Map of Shallow Groundwater Table (Alluvial Terrace)
Figure 5 Map of Deeper Groundwater Table (Marine Sediments)
Figure 6 Piezometric Surface using Piezometers and Monitoring Wells
Figure 7 Constituents Exceeding 2L Groundwater Standards
Figure 8 Lead Concentrations in Groundwater Samples
Figure 9 Sulfate Concentrations in Groundwater Samples

APPENDIX

Laboratory Report

1.0 INTRODUCTION

Sherrill Environmental, Inc. (Sherrill) was contracted by ReUse Technology, Inc. (ReUse) to perform Semi-Annual Groundwater and Surface Water Monitoring at the Swift Creek Project. The Swift Creek Project is a "Beneficial Use" fill utilizing coal combustion by-products (CCBs) in the development of a commercial property. The Project is located on the east side on US Highway 301 at Swift Creek near Battleboro, North Carolina (Figure 1). Prior use of the project area as determined by a review of historical DOT aerial photographs show that the property was previously developed as a motel with a restaurant (1961). A 1981 aerial photograph shows the project area to consist of the motel and restaurant with the remaining portion of the project area plowed and in agricultural use.

On November 11, 1991, ReUse Technology, Inc. submitted a letter to the Solid Waste Management Section seeking approval to use coal ash as structural fill material in the development of 25 acres of commercial property along Highway 301 at Swift Creek. On December 3, 1991, the Solid Waste Section issued a letter to ReUse that stated "Based upon the information received, the project appears to meet the guidelines previously agreed to for such reuse." In September 1992, ReUse began placement of coal ash at the site. In January 2003, the last shipment of coal ash was accepted at the site. On March 23, 2003, the site had been graded, compacted, covered with an 18 inch soil cap and planted with grass seed. On November 4, 2004, the Closure Notice was forwarded to the Solid Waste Section. In March 2006, a Comprehensive Site Assessment (CSA) for the Swift Creek Project was submitted to the Solid Waste Section. In December 2006, an Assessment Monitoring Plan was submitted to the Solid Waste Section. On February 22, 2007, the Assessment Monitoring Plan was approved by the Solid Waste Section.

2.0 SITE GEOLOGY

The site surficial geology consists of an alluvial terrace constructed by the fluvial deposition silts, sands and gravels. The sequence coarsens downward with some coarse sand with gravel present near the base. The terrace deposit overlies the massive and extensive Yorktown Formation. The Yorktown Formation is Pliocene in age and was deposited in the Pliocene Yorktown Sea that covered the entire coastal plain and the eastern most portions of the Piedmont. Depositional environments were back barrier lagoons, shallow inner-bay and estuarine environments and on the open shallow shelf (The Geology of the Carolinas, Horton and Zullo, 1991). The Yorktown in the region of the site is generally described as blueish-gray fine to very fine, silty sands, sandy silt or silty clay, well-sorted and very shelly.

3.0 MONITORING WELLS

A total of 11 monitoring wells are located around the perimeter of the Swift Creek Project (Figure 2). Monitoring wells MW-1S (shallow) and MW-1D (deep) are paired monitoring wells located near the center of the project approximately 25 feet east from the edge of the CCB fill. The MW-1S is completed in alluvial sediments and MW-1D is completed in the deeper marine sediments of the Yorktown Formation.

The paired monitoring wells MW-2S (shallow) and MW-2D (deep) are constructed similar to the MW-1 pair. The MW-2 pair is located on a roadway constructed into the swamp and is approximately 160 feet downgradient from the edge of the CCB fill and 135 feet downgradient of MW-1S and MW-1D.

Another paired monitoring well set, MW-5S (shallow) and MW-5D (deep), is located upgradient of the Swift Creek Project on the west side of US Highway 301. Again, the construction of this monitoring well set is similar with the shallow well screened in alluvial sandy sediments and the deeper well screened in the massive marine sediments.

Monitoring wells MW-3, MW-4, MW-6, MW-7 and MW-8 are shallow wells located at the southeast, southwest, northwest and northeast corners of the project. The borings were advanced through the alluvial material until the underlying marine unit was encountered as determined by split-spoon sampling. The alluvial material varied from a silty fine sand and clayey silty fine sand in the upper portion that generally coarsened downward. Borings at MW-5S, MW-6, MW-7 and MW-8 encountered medium to coarse quartz sand above the contact with the underlying marine unit.

All of the ten borings were completed using 2-inch schedule 40 PVC with 10-foot slotted screens. The monitoring wells were completed with stick-up casing and 4-inch schedule 40 PVC protective casings with lockable caps.

A West-East Cross Section of the project showing the CCB Structural Fill, alluvial material, contact with the marine sediments, monitoring well locations and screened intervals, and groundwater levels are shown in Figure 3.

4.0 GROUNDWATER TABLE

Groundwater level measurements were obtained on October 21, 2007. The measurements and calculated groundwater elevations are presented in Table 1. The pieziometric surface of the shallow alluvial aquifer is shown on Figure 4 and the pieziometric surface of the deeper marine aquifer is shown on Figure 5. Pieziometric surfaces show that the direction of groundwater flow is to the east towards the Swift Creek Swamp. The map of the groundwater table is consistent with the direction of slope of the former topographic surface.

5.0 WATER LEVELS IN ASH STRUCTURAL FILL

Water levels measurements were obtained from the site piezometers on October 21, 2007. Calculated water level elevations are presented on Table 2. Piezometers P-12 through P-21 are screened in the coal ash fill. The averaged elevations of the water levels in the ash fill have shown a significant decrease of 96.20 feet in 9/25/06 to 91.91 feet in 8/21/07 to 90.40 feet in 10/22/07. This decrease of approximately 5 feet over one year indicates that the water within the ash fill has the ability to drain. A map showing the potentiometric surface incorporating data from piezometers and shallow monitoring wells is presented as Figure 6.

6.0 SAMPLE COLLECTION

On October 21, 2007, the site monitoring wells were purged using a new disposable polyethylene bailer for each well. On October 22, 2007, groundwater samples were collected within 24 hours after purging. The resting period allowed for possible particulate in the water to settle prior to sampling. Samples were collected into laboratory prepared glassware, placed in an iced cooler and transferred to Enco Laboratories in Cary, North Carolina. Groundwater samples were analyzed for the Division's requested parameters of sulfate and total RCRA metals.

On October 22, 2007, Sherrill collected a surface water sample at station SW-1 located at the Highway 301 bridge over Swift Creek. Due to the drought conditions, no surface water was present at station SW-2 located at a surface water gauging pole (PVC pipe) set along the roadway into the swamp (near MW-2S and MW-2D) and no surface water was present at station SW-3 located at Lane Swamp north of MW-8. The surface water sample from SW-1 was analyzed for the same parameters as the groundwater samples.

Sherrill reviewed the laboratory report for the October 22, 2007 sampling event and found that some of the results were not to be consistent with previous data. On November 14 and 15, 2007, Sherrill purged and sampled MW-1S, MW-3, MW-6, MW-7 and MW-8 using the same above described method. The samples were analyzed for RCRA metals. ENCO Laboratory explained that the analysis of the first batch of samples

may have had inconsistent results due to interferences from non-target ions. The attached ENCO Laboratory report is a hybrid of the two sampling events.

7.0 GROUNDWATER ANALYSIS

The analytical results for this and the previous groundwater sampling event are summarized on Table 3 and the laboratory report is included in the Appendix. Exceedences of the NCAC 2L Groundwater Standard were detected in the groundwater samples from the shallow downgradient monitoring well MW-1S, MW-3, MW-6, MW-7 and MW-8 (Figure 7). No exceedences of the 2L Groundwater Standard were detected in the groundwater samples from the shallow upgradient monitoring wells MW-4 and MW-5S. No exceedences of the 2L Groundwater Standard were detected in the groundwater samples from the deep monitoring wells MW-1D, MW-2D and MW-5D.

Constituents that were detected in concentrations that exceeded the 2L Groundwater Standard were lead and sulfate.

The 2L Groundwater Standard for **lead** is 0.015 mg/L. Lead was detected in concentrations of 0.031 mg/L, 0.036 mg/L, 0.074 mg/L, 0.124 mg/L and 0.038 mg/L in the samples from MW-1S, MW-3, MW-6, MW-7 and MW-8, respectively (Figure 8).

The 2L Groundwater Standard for **sulfate** is 250 mg/L. Sulfate was detected in concentrations of 520 mg/L, 380 mg/L, 290 mg/L, 250 mg/L and 430 mg/L in the samples from MW-1S, MW-3, MW-6, MW-7 and MW-8, respectively (Figure 9).

Constituents detected in concentrations less than the 2L Standard and above the NC Solid Waste Section Limit (SWSL) were arsenic, barium and mercury. In the five consecutive sampling events that have been conducted at the site, concentrations of arsenic, barium and mercury have not exceeded the 2L Standard.

Cadmium, chromium, selenium and silver have not been reported in concentrations above the Solid Waste Section SWSLs.

8.0 SURFACE WATER ANALYSIS

The analytical results for this and the previous surface water sampling event are summarized on Table 4 and the laboratory report is included in the Appendix. Surface water samples were collected at the Highway 301 bridge over Swift Creek (SW-1). No surface water was present at the sampling stations located at the PVC pipe set along the roadway into the swamp (SW-2), and at Lane Swamp (SW-3) north of MW-8.

None of the tested parameters exceeded the NCAC 2B Surface Water Standard. None of the RCRA 8 metals were detected in concentrations above the SWSLs. Sulfate was detected in low concentrations of 3.8 mg/L in the sample from SW-1.

9.0 DISCUSSION AND SUMMARY

Exceedances of the 2L Groundwater Standard were detected in the samples from MW-1S, MW-3, MW-6, MW-7 and MW-8. These wells monitor shallow groundwater downgradient of the CCB fill. No exceedance of a 2L Standard were detected in the upgradient monitoring wells or the deeper monitoring wells (MW-1D, MW-2D and MW-5D).

Contaminants are limited to lead and sulfate. Lead was detected in concentrations that ranged from 0.031 mg/L to 0.124 mg/L in the shallow downgradient monitoring wells. Sulfate was detected in concentrations that ranged from 250 mg/L to 520 mg/L in the shallow downgradient monitoring wells. Arsenic, barium and mercury were detected in concentrations less than the 2L Standard but above the Solid Waste Section Limits (SWSLs).

In summary, some shallow groundwater contamination is present adjacent and downgradient of the CCB fill. The contamination appears limited vertically as shown by no contaminants detected in the deeper monitoring well (MW-1D) adjacent and downgradient of the CCB fill. The contamination appears to be limited horizontally by no contaminants detected in the downgradient monitoring wells (MW-2S and MW-2D) located 160 feet east from the edge of the CCB fill. The contamination appears limited to the east side of Highway 301 as no contaminants were detected in the upgradient shallow and deep pair of monitoring wells MW-5S and MW-5D on the west side of Highway 301. The direction of groundwater flow in both the shallow alluvial material and the marine sediments is to the east and southeast towards Swift Creek. The shallow groundwater associated with the site is likely to discharge to the surface water of the Swift Creek Swamp. Analysis of surface water samples has not indicated any contamination.

Drought conditions were present in this area of North Carolina for the year of 2007. Piezometer data showed a significant decrease in the water level present in the ash fill. The averaged elevations of the water levels in the ash fill decrease from 96.20 feet in 9/25/06 to 91.91 feet in 8/21/07 to 90.40 feet in 10/22/07. This decrease of approximately 5 feet over one year indicates that the water within the ash fill has the ability to drain. An engineered corrective measure is being installed at the site and should be completed by mid-January 2008. The corrective measure was designed by Appian Consulting Engineers, P.A. and consists of a longitudinal subsurface drain along the western portion of the site to intercept groundwater flowing from west to east. The purpose of the measure is to reduce the groundwater level in the area of the site. The effectiveness of the corrective measure will be documented in future semi-annual monitoring reports.

TABLES

TABLE 1
GROUNDWATER ELEVATIONS
SWIFT CREEK PROJECT

Sherrill Environmental, Inc.

	MW-1S	MW-1D	MW-2S	MW-2D	MW-3	MW-4	MW-5S	MW-5D	MW-6	MW-7	MW-8	Average
TOC ELV.	99.54	99.90	94.87	95.22	102.15	106.06	102.68	102.67	98.41	98.63	95.42	
12/1/2005	8.21	8.57	4.72	4.70	9.65	11.24	6.01	6.40	7.17	7.63		
GW ELV.	91.33	91.33	90.15	90.52	92.50	94.82	96.67	96.27	91.24	91.00		92.58
1/8/2006	8.11	8.28	NM	NM	9.48	10.15	5.86	5.68	7.18	7.74		
GW ELV.	91.43	91.62			92.67	95.91	96.82	96.99	91.23	90.89		93.45
6/9/2006	8.69	9.05	4.83	4.87	10.32	11.41	6.94	6.84	7.74	8.66		
GW ELV.	90.85	90.85	90.04	90.35	91.83	94.65	95.74	95.83	90.67	89.97		92.08
4/4/2007	7.80	8.18	4.40	4.75	9.31	9.96	6.12	5.96	7.28	7.80	4.84	
GW ELV.	91.74	91.72	90.47	90.47	92.84	96.10	96.56	96.71	91.13	90.83	90.58	92.65
8/21/2007	10.89	11.30	6.77	6.82	11.40	13.28	9.57	9.42	10.80	10.71	7.67	
GW ELV.	88.65	88.60	88.10	88.40	90.75	92.78	93.11	93.25	87.61	87.92	87.75	89.72
10/21/2007	11.40	11.76	7.31	7.43	12.98	14.06	10.62	10.63	11.90	11.41	8.30	
GW ELV.	88.14	88.14	87.56	87.79	89.17	92.00	92.06	92.04	86.51	87.22	87.12	88.89

TABLE 2
PIEZOMETER WATER LEVELS
SWIFT CREEK PROJECT

Sherrill Environmental, Inc.

Piezometer	9/25/02	9/30/02	10/7/02	10/18/02	10/24/02	11/27/02	12/31/2002	1/13/2003	1/27/2003	4/8/2003	5/4/2003	7/23/2003	10/13/2003
P-1	91.74	91.52	91.18	91.74	92.05	92.10	91.82	91.39	91.18				
P-2	91.84	91.67	91.65	91.90	92.03	92.41	92.68	92.53	92.16	92.63	92.36	92.28	92.61
P-3	92.08	91.83	91.53	92.05	92.42	92.72	92.45	91.95	91.54	92.19	92.03	91.84	92.40
P-4	92.53	92.48	92.23	92.69	93.00	93.39	93.47	93.25	92.92	93.52	93.25	93.27	93.41
P-5	92.62	92.64	92.65	92.82	92.98	93.59	94.03	94.09	94.59	95.43	95.23	95.25	95.43
P-6	94.43	94.47	94.52	94.84	95.18	97.04	97.77	97.66	96.89	97.60	97.17	96.44	96.66
P-7				91.78	91.98	92.19	91.92	91.57	91.62	91.99	91.91	91.79	92.23
P-8				92.34	92.58	92.97	92.99	92.67	92.48	92.84	92.58	92.48	92.66
P-9				96.15	97.09	97.03	97.44	96.91	96.45	98.37	97.02	96.45	96.51
P-10				94.13	94.36	94.59	94.14						
P-11				93.95	94.36	94.26	93.97	93.38					
P-12							96.60	96.23	95.52	95.81	95.60	95.70	95.87
P-13							96.59	96.88	96.90	97.81	97.77	97.63	97.74
P-14							94.72	94.29	93.32	93.90	93.42	93.31	93.30
P-15							95.81	95.43	92.59	93.73	92.74	93.16	93.16
P-16							94.65	94.36	93.92	94.08	93.87	94.02	93.73
P-17							94.74	94.67	94.29	94.71	94.59	94.85	94.59
P-18							98.00	97.84	97.17	97.74	97.38	96.55	96.69
P-19							102.35	101.71	100.08	101.13	100.42	99.57	99.42
P-20							95.10	94.88	94.51	94.52	94.45	94.48	94.55
P-21							95.98	97.40	95.58	95.85	95.28	95.49	94.37
P-22										100.19	96.80	95.72	95.72
B-1	94.42	94.46	94.46	94.57	94.69	96.44	97.98	97.98	97.48	98.59	98.33	97.64	97.86
NE Pond Swamp Pipe													

TABLE 2
PIEZOMETER WATER LEVELS
SWIFT CREEK PROJECT

Sherrill Environmental, Inc.

Piezometer	1/14/04	4/22/04	6/22/04	10/19/2004	6/22/2005	12/1/2005	6/10/2006	9/25/2006	8/21/2007	10/22/2007
P-1										
P-2	92.48	92.27	91.69	92.95	92.03	92.06	91.60	93.11		88.82
P-3	92.32	92.00	91.19	92.70	91.87	92.08	91.41	92.77		
P-4	93.36	93.40	92.59							
P-5	95.21	95.41	94.59	95.76	95.46	94.76	94.77	96.41	92.49	91.00
P-6	96.64	96.75	95.65	97.04	97.04	95.45	95.69	97.19	93.64	92.37
P-7	92.05	91.85	91.12	92.37	91.57	91.66	91.20	92.52	88.99	88.44
P-8	92.72	92.74	91.86	93.13				93.34	89.48	88.16
P-9	96.68	97.03	95.67	97.27	96.57	97.38	96.10	97.37	93.62	92.39
P-10										
P-11										
P-12	96.03	96.13	95.39	96.81	96.65	96.00	95.93	97.92	93.11	91.60
P-13	97.57	98.11	97.04	98.22	98.53	96.71	97.23	98.89	95.09	93.45
P-14	93.84	94.04	91.50	94.15	93.51	93.08	91.60	93.43	88.16	87.67
P-15	94.73	95.54	92.37	95.67	94.03	93.83	92.19	94.75	90.18	87.09
P-16	93.94	93.99	93.04	94.23	93.54	93.64	92.89	94.16		
P-17	94.92	95.34	93.69	95.52	94.91	94.23	93.80	95.11	88.59	87.69
P-18	96.60	96.87	95.53	96.93	96.83	95.12	95.51	97.04	93.67	93.07
P-19	99.44	99.63	98.00	100.12	99.94	98.41	97.82	99.56	94.80	93.11
P-20	94.64	94.63	94.36	94.97	94.92	94.61	94.66	95.24	93.20	91.54
P-21	95.04	96.32	93.96	96.35	95.19	95.60	94.39	95.87	90.41	<88.44
P-22	96.31	96.55	94.86	96.46	95.74	95.70	95.30	96.26	93.20	92.34
B-1	98.04	98.17	96.65	98.41	98.05	96.50	95.70	95.70		92.74
NE Pond				92.39		92.39				DRY
Swamp Pipe			90.8	88.35	87.35	87.65	87.20	88.05		DRY

TABLE 3
SUMMARY OF GROUNDWATER ANALYSES
SWIFT CREEK PROJECT

Sherrill Environmental, Inc.

		Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	Mercury	Sulfate
NCAC	**2L Std.**	0.05	2.0	0.005	0.05	0.015	0.05	0.018	0.0011	250
NCDWM	**SWSL**	0.01	0.1	0.001	0.01	0.01	0.01	0.01	0.0002	
MW-1S	6/7/04	0.028	0.190	<0.001	<0.01	**0.068**	<0.01	<0.01	<0.0002	**490**
	12/1/05	0.020	0.170	<0.001	<0.01	**0.042**	<0.01	<0.01	<0.0002	**608**
	6/10/06	0.012	0.472	<0.001	<0.01	**0.052**	<0.01	<0.01	0.00064	**740**
	4/5/07	<0.01	0.458	<0.001	<0.01	<0.010	<0.01	<0.01	0.00047	**420**
	11/15/07	<0.01	0.529	<0.001	<0.01	**0.031**	<0.01	<0.01	0.00089	**520**
MW-1D	6/7/04	<0.01	0.540	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	13
	12/1/05	<0.01	0.360	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	7.7
	6/10/06	<0.01	0.341	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	20
	4/5/07	<0.01	0.343	<0.001	<0.01	<0.010	<0.01	<0.01	<0.0002	12
	10/22/07	<0.01	0.365	<0.001	<0.01	<0.010	<0.01	<0.01	<0.0002	11
MW-2S	6/22/04	<0.01	<0.10	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	32
	12/1/05	<0.01	0.180	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	10.1
	6/10/06	<0.01	0.198	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	<5
	4/5/07	<0.01	0.232	<0.001	<0.01	<0.010	<0.01	<0.01	<0.0002	4.4
	10/22/07	<0.01	0.256	<0.001	<0.01	<0.010	<0.01	<0.01	<0.0002	3.6
MW-2D	6/22/04	<0.01	0.170	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	5.6
	12/1/05	<0.01	0.300	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	3.1
	6/10/06	<0.01	0.290	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	11
	4/5/07	<0.01	0.254	<0.001	<0.01	<0.010	<0.01	<0.01	<0.0002	2.9
	10/22/07	<0.01	0.273	<0.001	<0.01	<0.010	<0.01	<0.01	<0.0002	4.8
MW-5S	12/1/05	<0.01	0.450	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	6.1
	6/10/06	<0.01	0.121	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	7
	4/5/07	<0.01	0.218	<0.001	<0.01	<0.010	<0.01	<0.01	<0.0002	4.7
	10/22/07	<0.01	0.278	<0.001	<0.01	<0.010	<0.01	<0.01	<0.0002	4.9
MW-5D	12/1/05	<0.01	0.170	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	8.1
	6/10/06	<0.01	0.236	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	6
	4/5/07	<0.01	0.227	<0.001	<0.01	<0.010	<0.01	<0.01	<0.0002	5.8
	10/22/07	<0.01	0.258	<0.001	<0.01	<0.010	<0.01	<0.01	<0.0002	6.6
MW-3	12/1/05	<0.01	<0.10	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	**334**
	6/10/06	<0.01	0.192	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	**580**
	4/5/07	<0.01	0.342	<0.001	<0.01	<0.010	<0.01	<0.01	<0.0002	**570**
	11/15/07	<0.01	0.133	<0.001	<0.01	**0.036**	<0.01	<0.01	<0.0002	**380**
MW-4	12/1/05	<0.01	0.460	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	5.7
	6/10/06	<0.01	0.171	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	<5
	4/5/07	<0.01	<0.100	<0.001	<0.01	<0.010	<0.01	<0.01	<0.0002	8.6
	10/22/07	<0.01	0.147	<0.001	<0.01	<0.010	<0.01	<0.01	<0.0002	5.9
MW-6	12/1/05	<0.01	1.300	<0.001	<0.01	0.01	<0.01	<0.01	<0.0002	174
	6/10/06	<0.01	0.816	<0.001	<0.01	0.013	<0.01	<0.01	<0.0002	**510**
	4/5/07	<0.01	0.312	<0.001	<0.01	**0.032**	<0.01	<0.01	<0.0002	220
	11/15/07	<0.01	0.120	<0.001	<0.01	**0.074**	<0.01	<0.01	0.00026	**290**

TABLE 3
SUMMARY OF GROUNDWATER ANALYSES
SWIFT CREEK PROJECT

Sherrill Environmental, Inc.

		Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	Mercury	Sulfate
NCAC	**2L Std.**	0.05	2.0	0.005	0.05	0.015	0.05	0.018	0.0011	250
NCDWM	**SWSL**	0.01	0.1	0.001	0.01	0.01	0.01	0.01	0.0002	
MW-7	12/1/05	0.038	<0.10	<0.001	<0.01	**0.093**	<0.01	<0.01	<0.0002	**379**
	6/10/06	0.03	0.059	<0.001	<0.01	**0.053**	<0.01	<0.01	<0.0002	**500**
	4/5/07	0.017	<0.100	<0.001	<0.01	**0.047**	<0.01	<0.01	0.0003	**460**
	11/15/07	0.029	<0.100	<0.001	<0.01	**0.124**	<0.01	<0.01	0.00072	**250**
MW-8	4/5/07	0.025	<0.100	<0.001	<0.01	**0.024**	<0.01	<0.01	<0.0002	**400**
	11/15/07	0.030	<0.100	<0.001	<0.01	**0.038**	<0.01	<0.01	<0.0002	**430**

Concentrations in mg/L (ppm)
Bold values exceed the 2L Groundwater Standard
MW-1S, MW-2S and MW-5S are screened shallow (approx. 3 to 13 feet).
MW-1D, MW-2D, and MW-5D are screened deep (approx. 23 to 33 feet).
MW-3, MW-4, MW-6 and MW-7 are shallow wells located on the SE, SW, NW and NE corners.

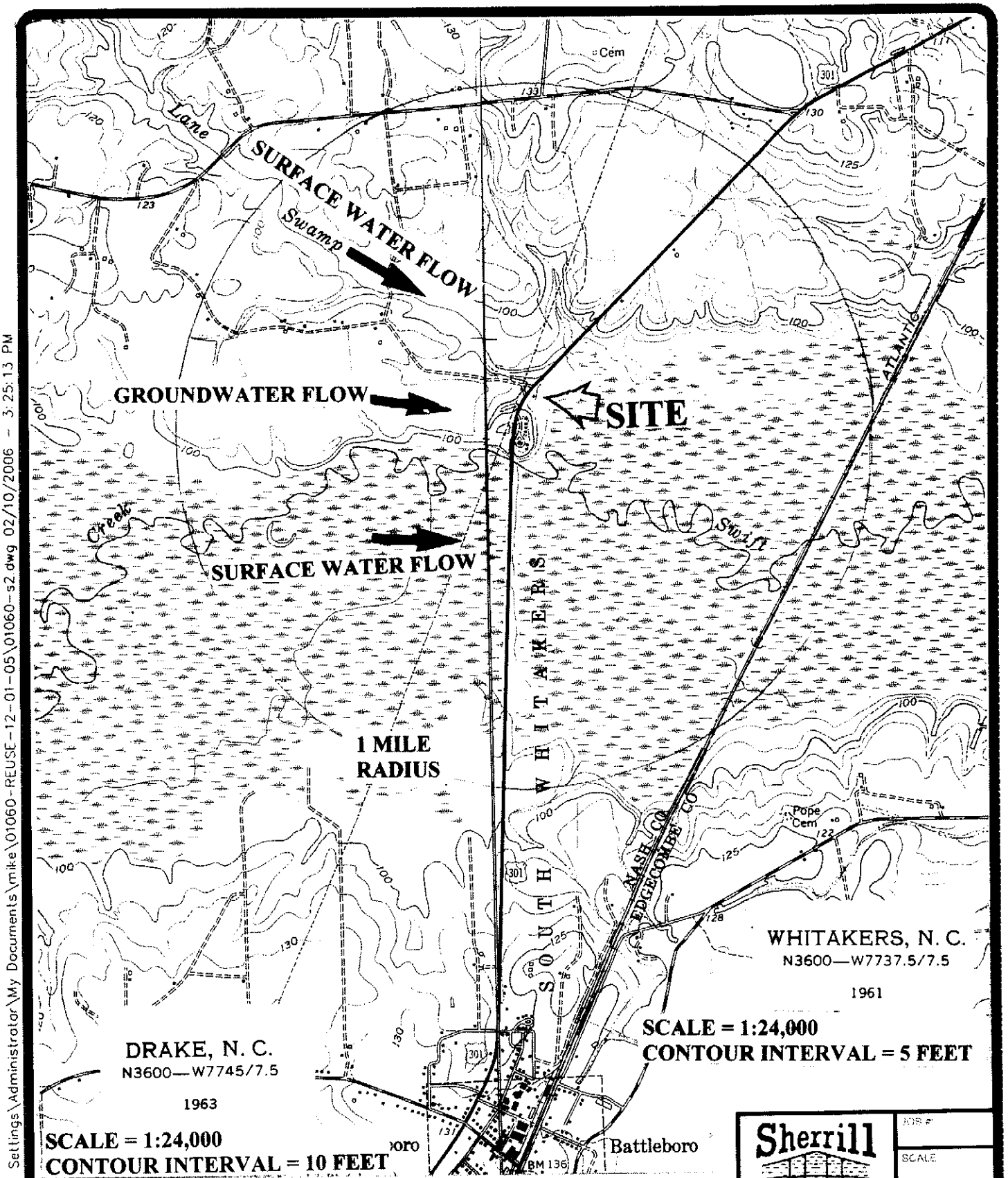
TABLE 4
SUMMARY OF SURFACE WATER ANALYSES
SWIFT CREEK PROJECT

Sherrill Environmental, Inc.

		Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	Mercury	Sulfate
NCAC	**2B Std.**	0.05	1.0	0.002	0.05	0.025	0.005	0.06	0.000012	250
NCDWM	**SWSL**	0.01	0.1	0.001	0.01	0.01	0.01	0.01	0.0002	
SW-1	3/4/03	<0.01	<0.10	<0.001	<0.01	<0.005	<0.01	<0.01	<0.0002	12
	6/22/04	<0.01	<0.10	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	<2.0
	12/1/05	<0.01	<0.10	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	6.3
	6/10/06	<0.01	<0.10	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	<5
	4/5/07	<0.01	<0.10	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	6.6
	10/22/07	<0.01	<0.10	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	3.8
SW-2	3/4/03	<0.01	<0.10	<0.001	<0.01	<0.005	<0.01	<0.01	<0.0002	13
	6/22/04	<0.01	<0.10	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	<2.0
	12/1/05	<0.01	<0.10	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	10.2
	6/10/06	<0.01	0.090	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	<5
	4/5/07	<0.01	<0.10	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	3.5
	10/22/07	DRY								
SW-3	4/5/07	<0.01	<0.10	<0.001	<0.01	<0.01	<0.01	<0.01	<0.0002	2.4
	10/22/07	DRY								

Concentrations in mg/L (ppm)
Bold values exceed the 2B Surface Water Standard
SW-1 Swift Creek at bridge (background).
SW-2 in swamp near MW-2S and MW-2D
SW-3 in Lane Swamp north of MW-8

FIGURES



Sherrill Environmental, Inc.
3326 Rugby Rd.
Durham N.C. 27707
Phone (919) 493-6555
Fax (919) 493-6554
sherrill@nc.rr.com

JOB #
SCALE
DATE: 12/1/05
SHEET # 1 OF 10

FIGURE 1
SITE LOCATION MAP

C:\Documents and Settings\Administrator\My Documents\mike\01060-REUSE-12-01-05\01060-s2.dwg 02/10/2006 - 3:25:13 PM

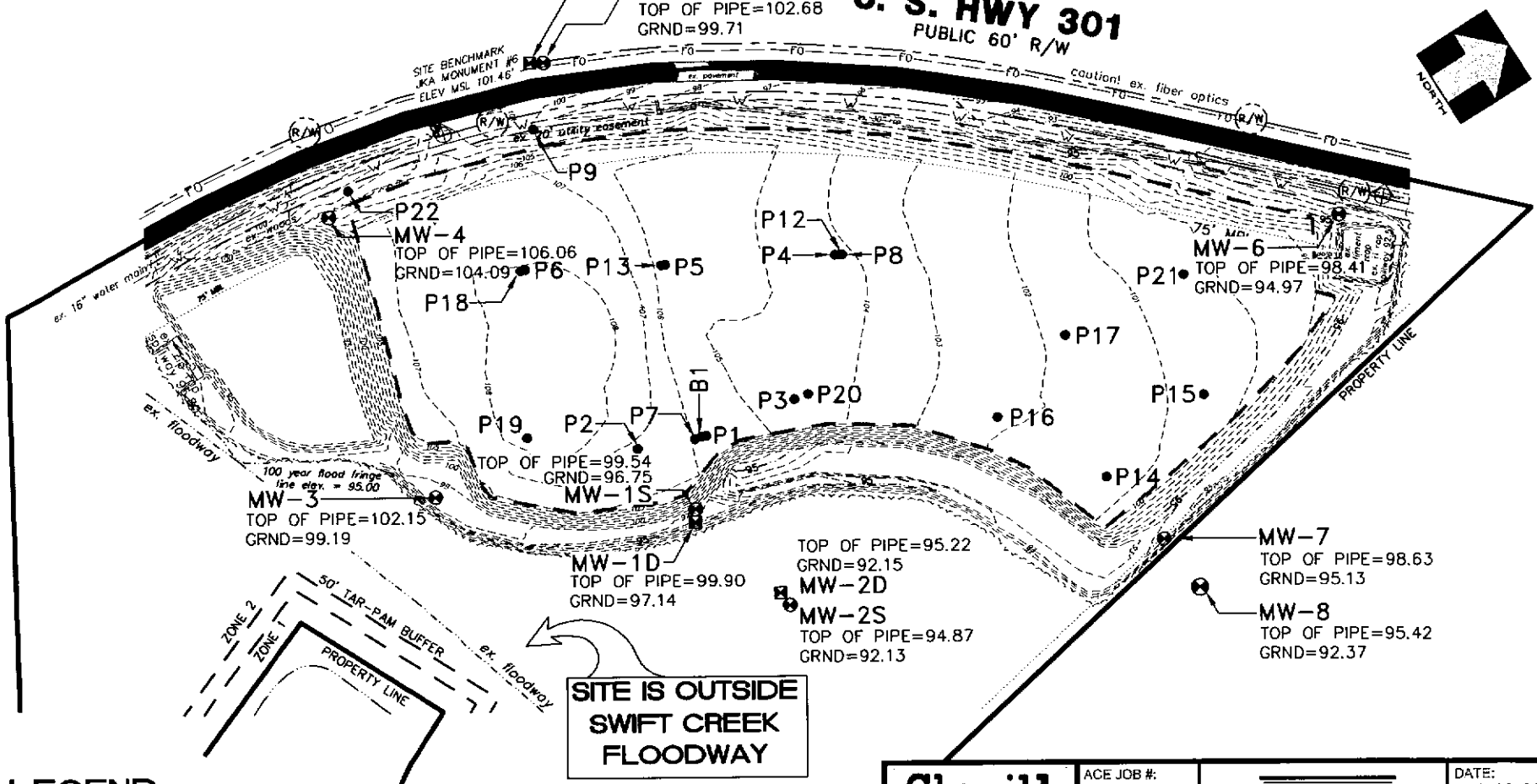
F:\Appian Projects - Shared Folders\01060-swiftcreek\01060-01-08.dwg <FIG-2> 01/10/2008 - 5:27:17 PM

BOUNDARY DESCRIPTION SHOWN IS NOT FOR RECORDATION.

ADA AND LEGAL DISCLAIMER
This document is not represented to comply with all requirements contained in the ADA or other laws. Engineers are not licensed to interpret laws or give advice concerning laws, the owner should have this document reviewed by his attorney to determine legal compliance.

REUSE TECHNOLOGY, INC.
SWIFT CREEK PROJECT

SCALE: 1" = 200'
0 200 400 500 600



LEGEND

- SHALLOW MONITORING WELL (ALLUVIAL TERRACE)
- DEEP MONITORING WELL (MARINE SEDIMENTS)
- PIEZOMETER

FIGURE 2
SITE MAP
10/22/07

Sherrill Environmental, Inc.
3326 Rugby Rd.
Durham N.C. 27707
Phone (919) 493-6555
Fax (919) 493-6554
sherrill@nc.rr.com

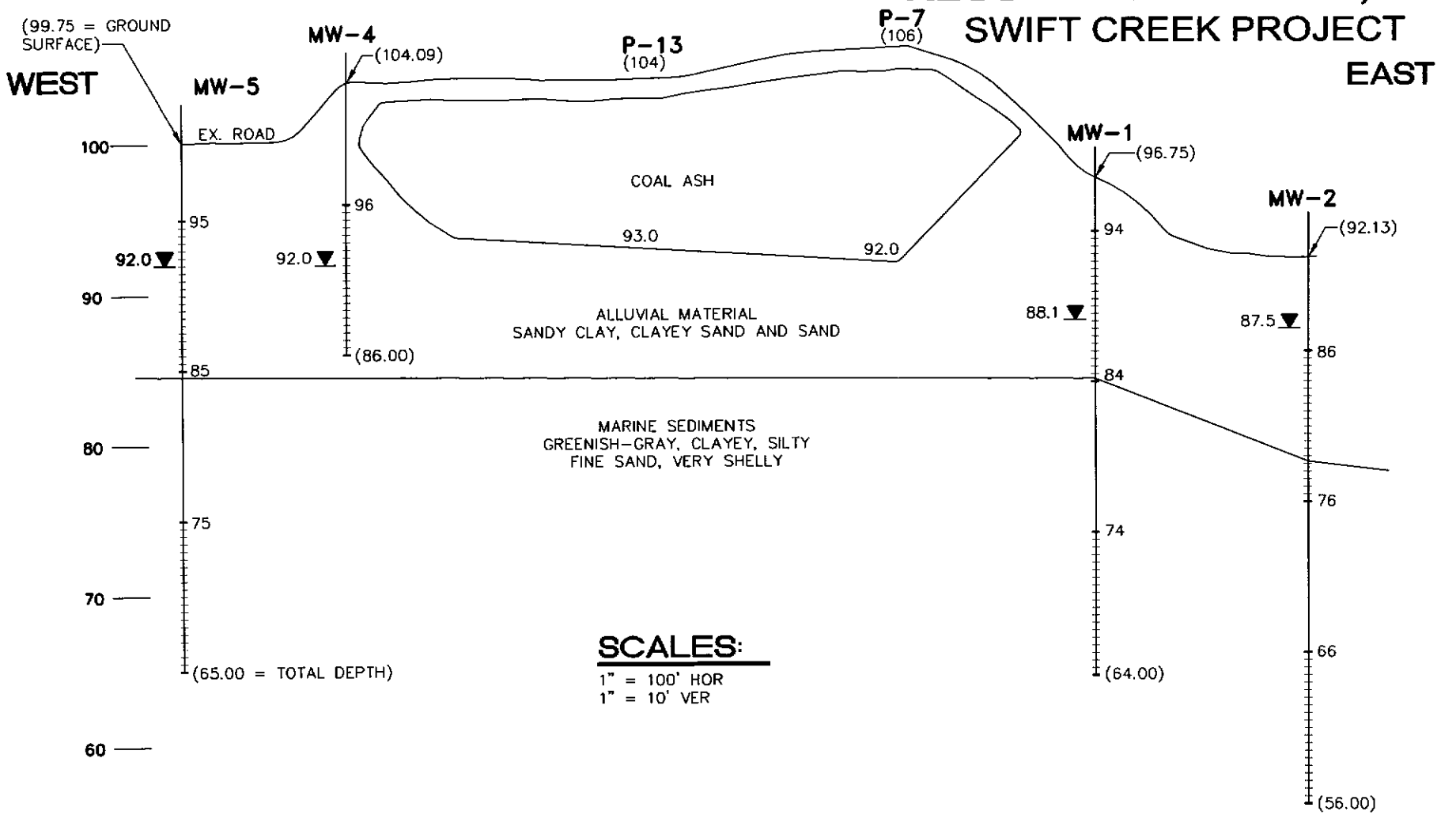
ACE JOB #: 01-060
SCALE: 1"=200'
DATE: 1-10-08
SHEET #: 2 OF 9

Appian
APPIAN CONSULTING ENGINEERS, P.A.
CIVIL, MUNICIPAL & STRUCTURAL ENGINEERS
COMPREHENSIVE ENVIRONMENTAL SERVICES
P.O. Box 7966 / Rocky Mount, N.C. 27804
Phone: (252) 972-7703 / Fax: (252) 972-7638
www.appianengineers.com

GENESIS

F:\Appian Projects - Shared Folders\01060-swiftcreek\01060-01-08.dwg <FIG-3> 01/10/2008 - 5:28:06 PM

REUSE TECHNOLOGY, INC.
SWIFT CREEK PROJECT



SCALES:
1" = 100' HOR
1" = 10' VER

BOUNDARY DESCRIPTION SHOWN IS NOT FOR RECORDATION.

ADA AND LEGAL DISCLAIMER
This document is not represented to comply with all requirements contained in the ADA or other laws. Engineers are not licensed to interpret laws or give advice concerning laws, the owner should have this document reviewed by his attorney to determine legal compliance.

FIGURE 3
WEST-EAST CROSS SECTION
10/22/07

Sherrill Environmental, Inc.
3326 Rugby Rd.
Durham N.C. 27707
Phone (919) 493-6555
Fax (919) 493-6554
sherrill@nc.rr.com

ACE JOB #: 01-060
SCALE: AS-NOTED
DATE: 1-10-08
SHEET #: 3 OF 9

Appian
APPIAN CONSULTING ENGINEERS, P.A.
CIVIL, MUNICIPAL & STRUCTURAL ENGINEERS
COMPREHENSIVE ENVIRONMENTAL SERVICES
P.O. Box 7966 / Rocky Mount, N.C. 27804
Phone: (252) 972-7703 / Fax: (252) 972-7638
www.appianengineers.com

GENESIS 1:1

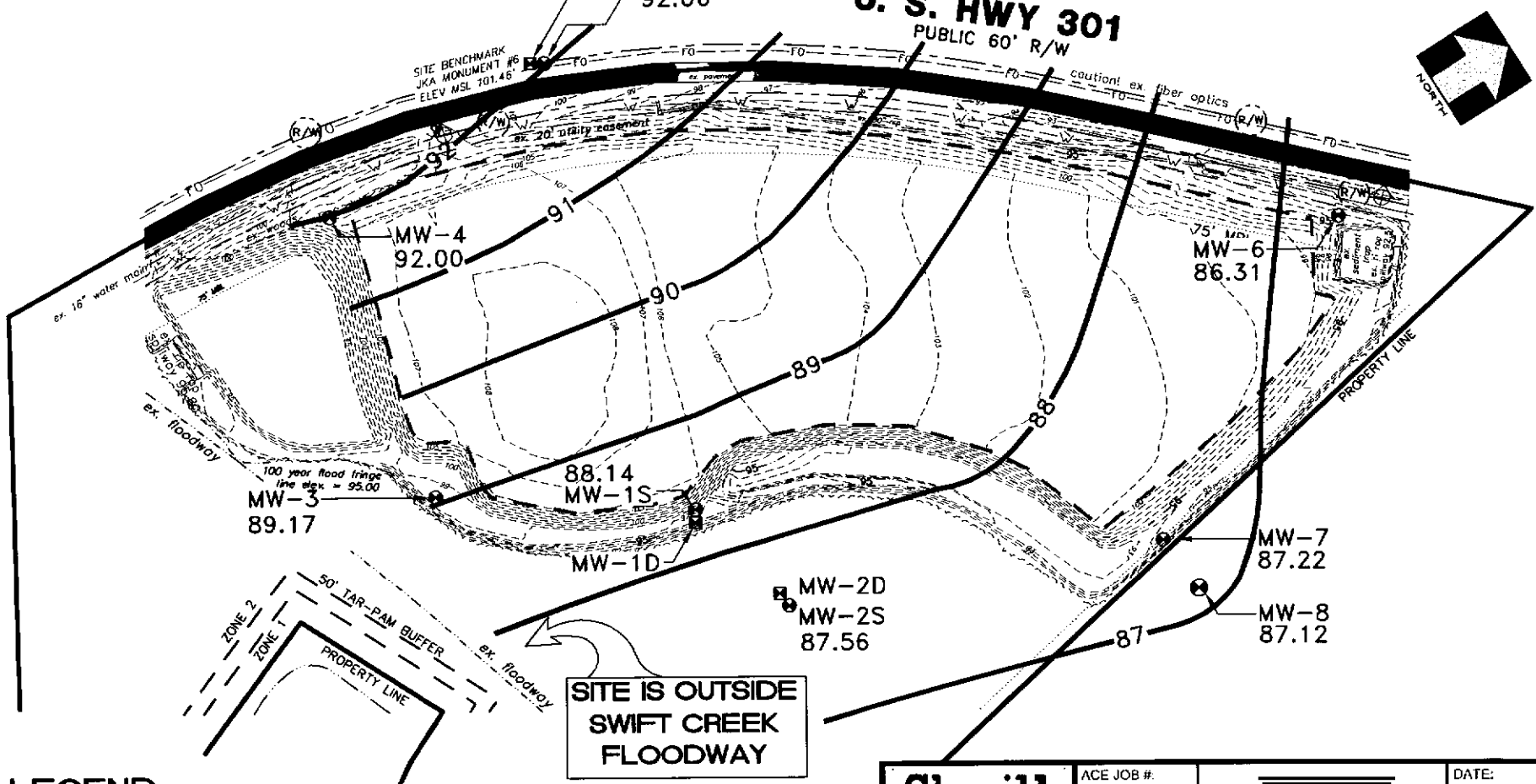
F:\Appian Projects – Shared Folders\01060-swiftcreek\01060-01-08.dwg <FIG-4> 01/10/2008 – 5:28:50 PM

BOUNDARY DESCRIPTION SHOWN IS NOT FOR RECORDATION.

ADA AND LEGAL DISCLAIMER
This document is not represented to comply with all requirements contained in the ADA or other laws. Engineers are not licensed to interpret laws or give advice concerning laws, the owner should have this document reviewed by his attorney to determine legal compliance.

REUSE TECHNOLOGY, INC.
SWIFT CREEK PROJECT

SCALE: 1" = 200'
0 200 400 500 600



SITE IS OUTSIDE SWIFT CREEK FLOODWAY

LEGEND
- SHALLOW MONITORING WELL (ALLUVIAL TERRACE)
- DEEP MONITORING WELL (MARINE SEDIMENTS)
- PIEZOMETER

FIGURE 4
MAP OF SHALLOW GROUNDWATER TABLE (ALLUVIAL TERRACE)
10-22-07

Sherrill Environmental, Inc.
3326 Rugby Rd.
Durham N.C. 27707
Phone (919) 493-6555
Fax (919) 493-6554
sherrill@nc.rr.com

ACE JOB #: 01-060
SCALE: 1"=200'

Appian
APPIAN CONSULTING ENGINEERS, P.A.
CIVIL, MUNICIPAL & STRUCTURAL ENGINEERS
COMPREHENSIVE ENVIRONMENTAL SERVICES
P.O. Box 7966 / Rocky Mount, N.C. 27804
Phone: (252) 972-7703 / Fax: (252) 972-7638
www.appianengineers.com

DATE: 1-10-08
SHEET #: 4 OF 9

GENESIS 1:1

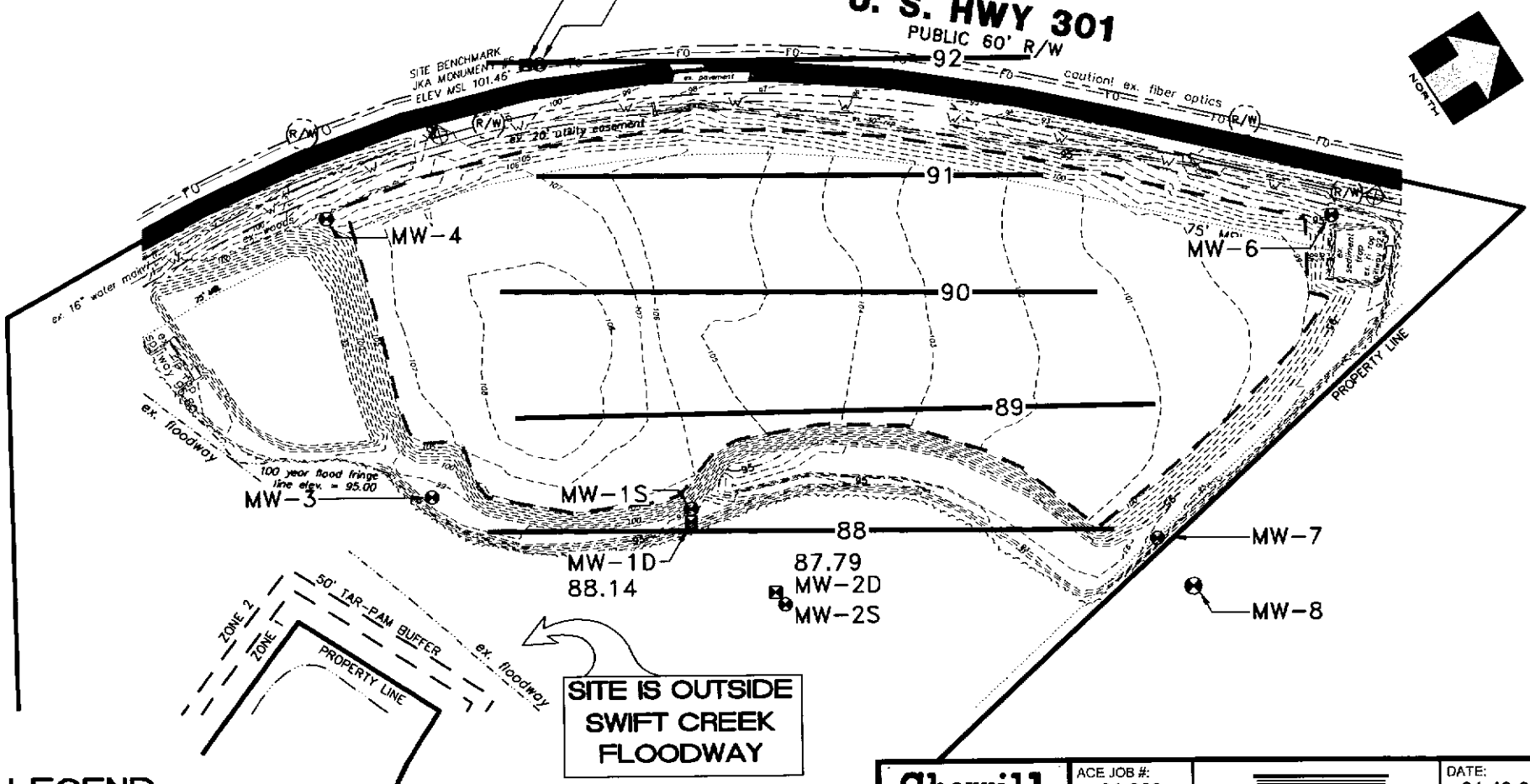
F:\Appian Projects – Shared Folders\01060-swiftcreek\01060-01-08.dwg <FIG-5> 01/10/2008 – 5:29:18 PM

BOUNDARY DESCRIPTION SHOWN IS NOT FOR RECORDATION.

ADA AND LEGAL DISCLAIMER
This document is not represented to comply with all requirements contained in the ADA or other laws. Engineers are not licensed to interpret laws or give advice concerning laws, the owner should have this document reviewed by his attorney to determine legal compliance.

REUSE TECHNOLOGY, INC.
SWIFT CREEK PROJECT

SCALE: 1" = 200'
0 200 400 500 600



LEGEND

- SHALLOW MONITORING WELL (ALLUVIAL TERRACE)
- DEEP MONITORING WELL (MARINE SEDIMENTS)
- PIEZOMETER

FIGURE 5
MAP OF DEEPER GROUNDWATER TABLE (MARINE SEDIMENTS)
10/22/07

Sherrill Environmental, Inc.
3326 Rugby Rd.
Durham N.C. 27707
Phone (919) 493-6555
Fax (919) 493-6554
sherrill@nc.rr.com

ACE JOB #: 01-060
SCALE: 1"=200'
DATE: 01-10-08
SHEET #: 5 OF 9

Appian
APPIAN CONSULTING ENGINEERS, P.A.
CIVIL, MUNICIPAL & STRUCTURAL ENGINEERS
COMPREHENSIVE ENVIRONMENTAL SERVICES
P.O. Box 7966 / Rocky Mount, N.C. 27804
Phone: (252) 972-7703 / Fax: (252) 972-7638
www.appianengineers.com

GENESIS 1:1

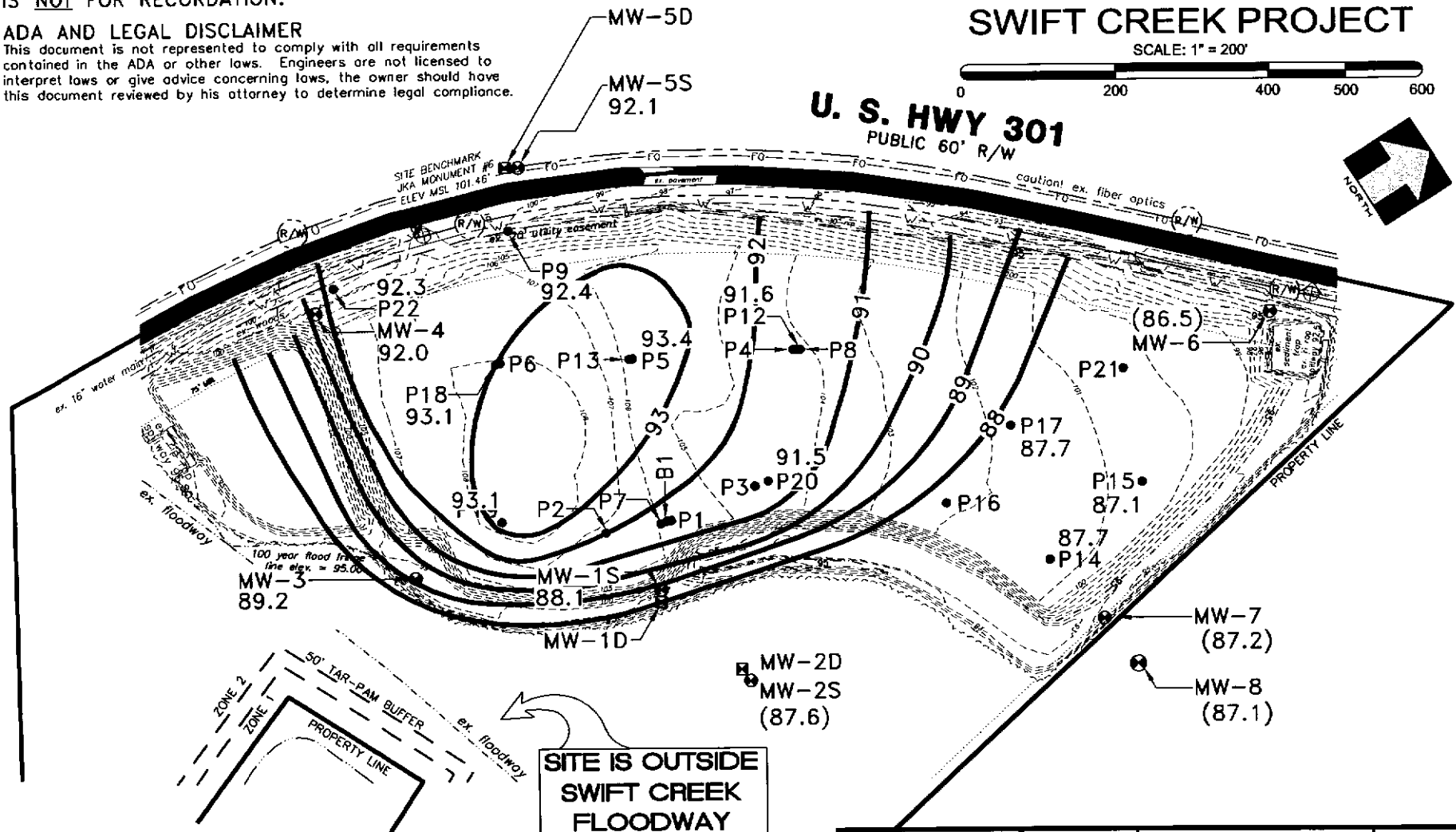
F:\Appian Projects - Shared Folders\01060-swiftcreek\01060-01-08.dwg <FIG-6> 01/10/2008 - 5:29:46 PM

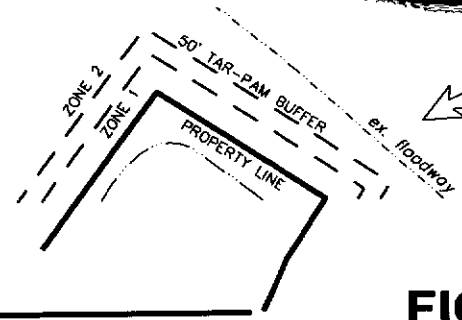
BOUNDARY DESCRIPTION SHOWN IS NOT FOR RECORDATION.

ADA AND LEGAL DISCLAIMER
This document is not represented to comply with all requirements contained in the ADA or other laws. Engineers are not licensed to interpret laws or give advice concerning laws, the owner should have this document reviewed by his attorney to determine legal compliance.

REUSE TECHNOLOGY, INC.
SWIFT CREEK PROJECT

SCALE: 1" = 200'
0 200 400 500 600





SITE IS OUTSIDE SWIFT CREEK FLOODWAY

LEGEND

- SHALLOW MONITORING WELL (ALLUVIAL TERRACE)
- DEEP MONITORING WELL (MARINE SEDIMENTS)
- PIEZOMETER

FIGURE 6
PIEZOMETRIC SURFACE USING PIEZOMETERS AND MONITORING WELLS
10/22/07

Sherrill Environmental, Inc.
3326 Rugby Rd.
Durham N.C. 27707
Phone (919) 493-6555
Fax (919) 493-6554
sherrill@nc.rr.com

ACE JOB #: 01-060
SCALE: 1"=200'

Appian
APPIAN CONSULTING ENGINEERS, P.A.
CIVIL, MUNICIPAL & STRUCTURAL ENGINEERS
COMPREHENSIVE ENVIRONMENTAL SERVICES
P.O. Box 7966 / Rocky Mount, N.C. 27804
Phone: (252) 972-7703 / Fax: (252) 972-7638
www.appianengineers.com

DATE: 1-10-08
SHEET #: 6 OF 9

GENESIS 1:1

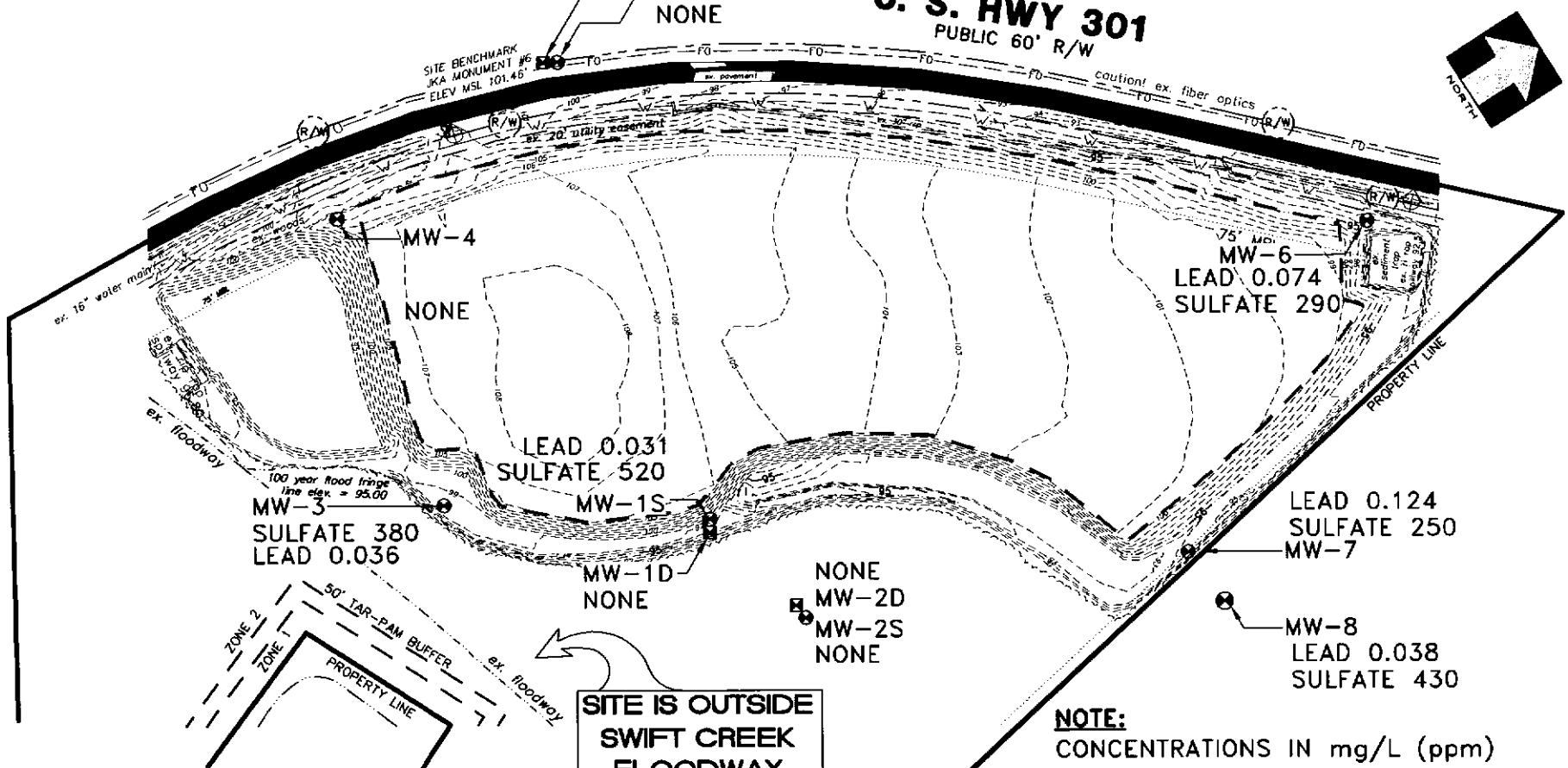
F:\Appian Projects – Shared Folders\01060-swiftcreek\01060-01-08.dwg <FIG-7> 01/10/2008 – 5:30:14 PM

BOUNDARY DESCRIPTION SHOWN IS NOT FOR RECORDATION.

ADA AND LEGAL DISCLAIMER
This document is not represented to comply with all requirements contained in the ADA or other laws. Engineers are not licensed to interpret laws or give advice concerning laws, the owner should have this document reviewed by his attorney to determine legal compliance.

REUSE TECHNOLOGY, INC.
SWIFT CREEK PROJECT

SCALE: 1" = 200'
0 200 400 500 600



NOTE:
CONCENTRATIONS IN mg/L (ppm)

LEGEND

- SHALLOW MONITORING WELL (ALLUVIAL TERRACE)
- DEEP MONITORING WELL (MARINE SEDIMENTS)
- PIEZOMETER

FIGURE 7
CONSTITUENTS EXCEEDING 2L GROUNDWATER STANDARDS 10-22-07

Sherrill Environmental, Inc.
3326 Rugby Rd.
Durham N.C. 27707
Phone (919) 493-6555
Fax (919) 493-6554
sherrill@nc.rr.com

ACE JOB #: 01-060
SCALE: 1"=200'
DATE: 6-14-07
SHEET #: 7 OF 9

Appian
APPIAN CONSULTING ENGINEERS, P.A.
CIVIL, MUNICIPAL & STRUCTURAL ENGINEERS
COMPREHENSIVE ENVIRONMENTAL SERVICES
P.O. Box 7966 / Rocky Mount, N.C. 27804
Phone: (252) 972-7703 / Fax: (252) 972-7638
www.appianengineers.com

GENESIS 1:1

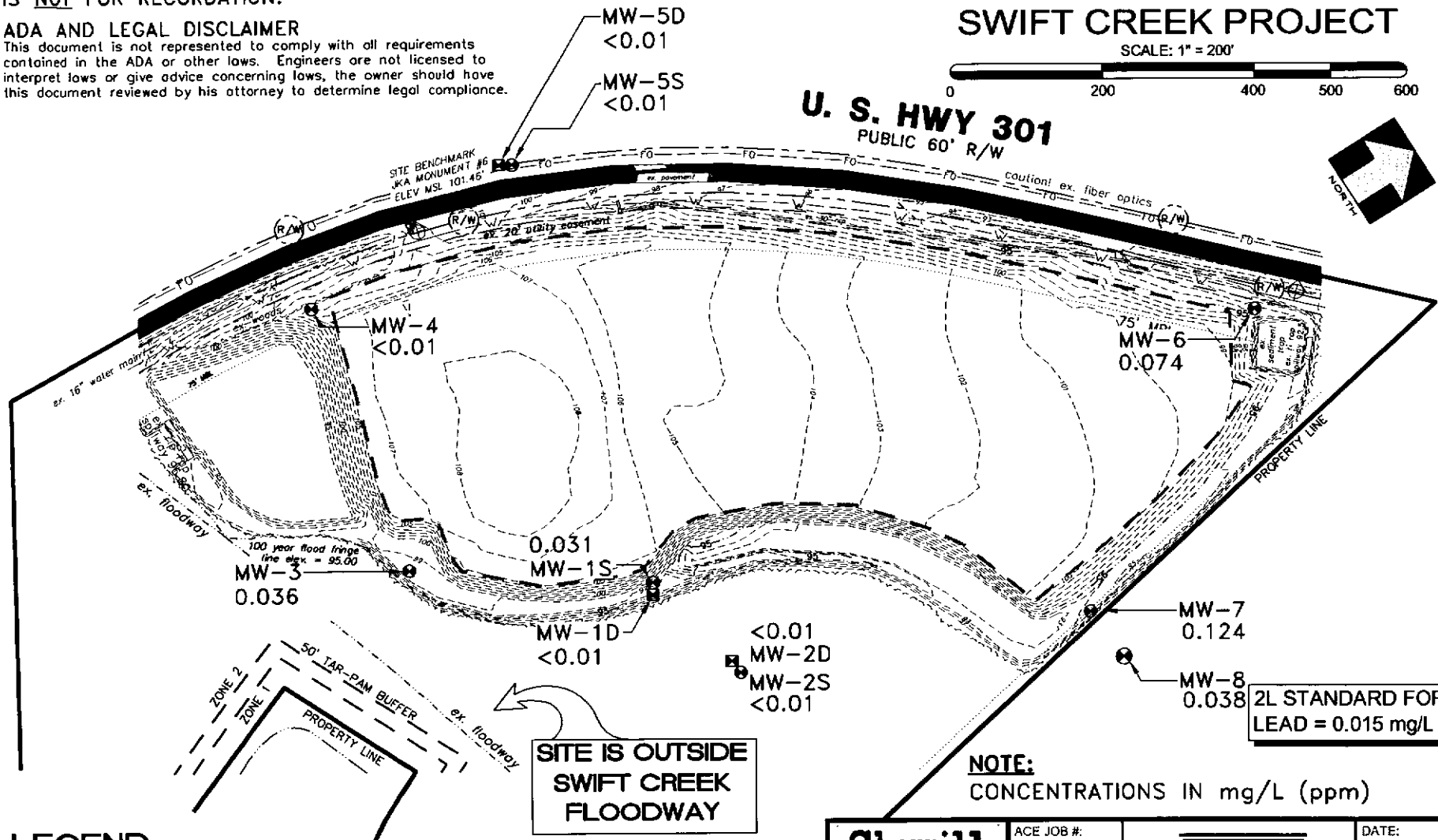
F:\Appian Projects - Shared Folders\01060-swiftcreek\01060-01-08.dwg <FIG-8> 01/10/2008 - 5:30:47 PM

BOUNDARY DESCRIPTION SHOWN IS NOT FOR RECORDATION.

ADA AND LEGAL DISCLAIMER
This document is not represented to comply with all requirements contained in the ADA or other laws. Engineers are not licensed to interpret laws or give advice concerning laws, the owner should have this document reviewed by his attorney to determine legal compliance.

REUSE TECHNOLOGY, INC.
SWIFT CREEK PROJECT

SCALE: 1" = 200'
0 200 400 500 600



2L STANDARD FOR LEAD = 0.015 mg/L

NOTE:
CONCENTRATIONS IN mg/L (ppm)

LEGEND

- SHALLOW MONITORING WELL (ALLUVIAL TERRACE)
- DEEP MONITORING WELL (MARINE SEDIMENTS)
- PIEZOMETER

FIGURE 8
LEAD CONCENTRATIONS IN GROUNDWATER SAMPLES 10/22/07

Sherrill Environmental, Inc.
3326 Rugby Rd.
Durham N.C. 27707
Phone (919) 493-6555
Fax (919) 493-6554
sherrill@nc.rr.com

ACE JOB #: 01-060
SCALE: 1"=200'
DATE: 1-10-08
SHEET #: 8 OF 9

Appian
APPIAN CONSULTING ENGINEERS, P.A.
CIVIL, MUNICIPAL & STRUCTURAL ENGINEERS
COMPREHENSIVE ENVIRONMENTAL SERVICES
P.O. Box 7966 / Rocky Mount, N.C. 27804
Phone: (252) 972-7703 / Fax: (252) 972-7638
www.appianengineers.com

GENESIS 1:1

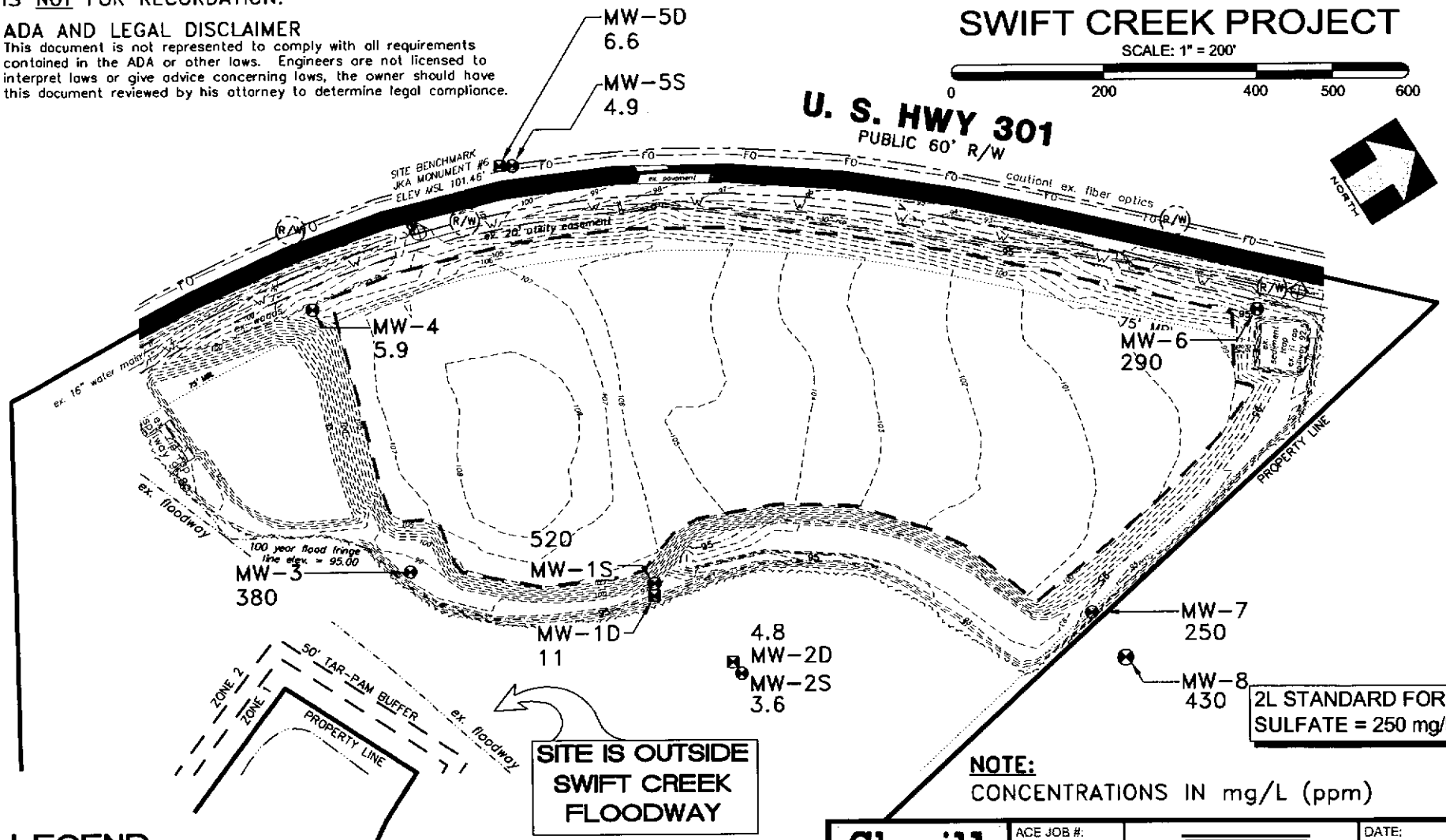
F:\Appian Projects – Shared Folders\01060-swiftcreek\01060-01-08.dwg <FIG-9> 01/10/2008 – 5:31:14 PM

BOUNDARY DESCRIPTION SHOWN IS NOT FOR RECORDATION.

ADA AND LEGAL DISCLAIMER
This document is not represented to comply with all requirements contained in the ADA or other laws. Engineers are not licensed to interpret laws or give advice concerning laws, the owner should have this document reviewed by his attorney to determine legal compliance.

REUSE TECHNOLOGY, INC.
SWIFT CREEK PROJECT

SCALE: 1" = 200'
0 200 400 500 600



2L STANDARD FOR SULFATE = 250 mg/L

NOTE:
CONCENTRATIONS IN mg/L (ppm)

LEGEND

- SHALLOW MONITORING WELL (ALLUVIAL TERRACE)
- DEEP MONITORING WELL (MARINE SEDIMENTS)
- PIEZOMETER

FIGURE 9
SULFATE CONCENTRATIONS IN GROUNDWATER SAMPLES
10/22/07

Sherrill Environmental, Inc.
3326 Rugby Rd.
Durham N.C. 27707
Phone (919) 493-6555
Fax (919) 493-6554
sherrill@nc.rr.com

ACE JOB #: 01-060
SCALE: 1"=200'
DATE: 1-10-08
SHEET #: 9 OF 9

Appian
APPIAN CONSULTING ENGINEERS, P.A.
CIVIL, MUNICIPAL & STRUCTURAL ENGINEERS
COMPREHENSIVE ENVIRONMENTAL SERVICES
P.O. Box 7966 / Rocky Mount, N.C. 27804
Phone: (252) 972-7703 / Fax: (252) 972-7638
www.appianengineers.com

GENESIS 1:1

APPENDIX

ENCO Laboratory Report

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515

www.encolabs.com

Monday, December 24, 2007

Sherrill Environmental, Inc. (SH004)

Attn: Jack Sherrill

3326 Rugby Road

Durham, NC 27707

RE: Laboratory Results for
Project Number: [none], Project Name/Desc: Swift Creek
ENCO Workorder: C714874

Dear Jack Sherrill,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Monday, October 22, 2007.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Stephanie Franz For Chuck Smith
Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 39.

www.encolabs.com

PROJECT NARRATIVE

Date: 24 December 2007
Client: Sherrill Environmental
Project: Swift Creek
Lab ID: C714874, C715711

Overview

This report is an amendment to the original reports dated 31 October 2007 and 26 November 2007 for work orders C714874 and C715711. This report was revised at the client's request to blend the two aforementioned work orders. A second revision was submitted, at the client's request to include re-analysis information for the Mercury analysis samples MS-1S and MW-7.

All samples submitted were analyzed by Environmental Conservation Laboratories, Inc. in accordance with the methods referenced in the laboratory report. Any particular difficulties encountered during sample handling by Environmental Conservation Laboratories, Inc. will be discussed in the QC Remarks section below.

Quality Control Samples

One of the Method Blanks for the 6010B analyses had low-level detections (less than half of the MRL) of Barium and Selenium. All of the associated samples with Barium detections had concentrations greater than ten times that of the Method Blank. None of the associated samples had any detections of Selenium.

Quality Control Remarks

Samples MS-1S and MW-7 were re-prepped and re-analyzed to reduce possible interferences, resulting in potentially high biased results. These two samples were re-prepped and re-analyzed outside of the EPA's recommended hold time and are thusly qualified (Q-flagged).

Other Comments

The analytical data presented in this report are consistent with the methods as referenced in the analytical report. Any exceptions or deviations are noted in the QC remarks section of this narrative.

Released By:
Environmental Conservation Laboratories, Inc.

Stephanie Franz
Project Manager

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: MW-1S Lab ID: C714874-01 Sampled: 10/22/07 10:55 Received: 10/22/07 17:55

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	11/19/07	10/25/07 11:17	10/25/2007 16:26

Client ID: MW-1D Lab ID: C714874-02 Sampled: 10/22/07 11:00 Received: 10/22/07 17:55

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	11/19/07	10/25/07 11:17	10/25/2007 16:44
EPA 6010B	04/19/08	10/24/07 09:09	10/30/2007 17:03
EPA 7470A	11/19/07	10/25/07 12:26	10/26/2007 11:51

Client ID: MW-2S Lab ID: C714874-03 Sampled: 10/22/07 11:10 Received: 10/22/07 17:55

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	11/19/07	10/25/07 11:17	10/25/2007 17:02
EPA 6010B	04/19/08	10/24/07 09:09	10/30/2007 17:10
EPA 7470A	11/19/07	10/25/07 12:26	10/26/2007 11:54

Client ID: MW-2D Lab ID: C714874-04 Sampled: 10/22/07 11:15 Received: 10/22/07 17:55

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	11/19/07	10/25/07 11:17	10/25/2007 17:20
EPA 6010B	04/19/08	10/24/07 09:09	10/30/2007 17:17
EPA 7470A	11/19/07	10/25/07 12:26	10/26/2007 11:57

Client ID: MW-3 Lab ID: C714874-05 Sampled: 10/22/07 10:45 Received: 10/22/07 17:55

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	11/19/07	10/25/07 11:17	10/25/2007 17:37

Client ID: MW-4 Lab ID: C714874-06 Sampled: 10/22/07 10:30 Received: 10/22/07 17:55

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	11/19/07	10/25/07 11:17	10/25/2007 17:55
EPA 6010B	04/19/08	10/24/07 09:09	10/30/2007 17:31
EPA 7470A	11/19/07	10/25/07 12:26	10/26/2007 12:02

Client ID: MW-5S Lab ID: C714874-07 Sampled: 10/22/07 10:20 Received: 10/22/07 17:55

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	11/19/07	10/25/07 11:17	10/25/2007 18:13
EPA 6010B	04/19/08	10/24/07 09:09	10/30/2007 17:38
EPA 7470A	11/19/07	10/25/07 12:26	10/26/2007 12:05

www.encolabs.com

Client ID: MW-5D | **Lab ID: C714874-08** | **Sampled: 10/22/07 10:25** | **Received: 10/22/07 17:55**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	11/19/07	10/25/07 11:17	10/25/2007 19:06
EPA 6010B	04/19/08	10/24/07 09:09	10/30/2007 17:45
EPA 7470A	11/19/07	10/25/07 12:26	10/26/2007 12:08

Client ID: MW-6 | **Lab ID: C714874-09** | **Sampled: 10/22/07 12:30** | **Received: 10/22/07 17:55**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	11/19/07	10/25/07 11:17	10/25/2007 19:23

Client ID: MW-7 | **Lab ID: C714874-10** | **Sampled: 10/22/07 12:10** | **Received: 10/22/07 17:55**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	11/19/07	10/25/07 11:17	10/25/2007 19:41

Client ID: MW-8 | **Lab ID: C714874-11** | **Sampled: 10/22/07 11:50** | **Received: 10/22/07 17:55**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	11/19/07	10/25/07 11:17	10/25/2007 19:59

Client ID: SW-1 Swift Creek Bridge | **Lab ID: C714874-12** | **Sampled: 10/22/07 13:00** | **Received: 10/22/07 17:55**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	11/19/07	10/25/07 11:17	10/25/2007 20:16
EPA 6010B	04/19/08	10/24/07 09:09	10/30/2007 18:32
EPA 7470A	11/19/07	10/25/07 12:26	10/26/2007 12:24

Client ID: MW-1S | **Lab ID: C715711-01** | **Sampled: 11/15/07 10:30** | **Received: 11/15/07 14:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	05/13/08	11/16/07 07:49	11/21/2007 13:18

Client ID: MW-1S | **Lab ID: C715711-01RE2** | **Sampled: 11/15/07 10:30** | **Received: 11/15/07 14:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 7470A	12/13/07	11/19/07 14:16	12/20/2007 09:37

Client ID: MW-3 | **Lab ID: C715711-02** | **Sampled: 11/15/07 10:35** | **Received: 11/15/07 14:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	05/13/08	11/16/07 07:49	11/21/2007 13:41
EPA 7470A	12/13/07	11/19/07 14:16	11/20/2007 15:15

www.encolabs.com

Client ID: MW-6 | **Lab ID: C715711-03** | **Sampled: 11/15/07 11:20** | **Received: 11/15/07 14:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	05/13/08	11/16/07 07:49	11/21/2007 13:48
EPA 7470A	12/13/07	11/19/07 14:16	11/20/2007 15:18

Client ID: MW-7 | **Lab ID: C715711-04** | **Sampled: 11/15/07 10:45** | **Received: 11/15/07 14:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	05/13/08	11/16/07 07:49	11/21/2007 13:55

Client ID: MW-7 | **Lab ID: C715711-04RE2** | **Sampled: 11/15/07 10:45** | **Received: 11/15/07 14:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 7470A	12/13/07	11/19/07 14:16	12/20/2007 09:39

Client ID: MW-8 | **Lab ID: C715711-05** | **Sampled: 11/15/07 11:00** | **Received: 11/15/07 14:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	05/13/08	11/16/07 07:49	11/21/2007 14:02
EPA 7470A	12/13/07	11/19/07 14:16	11/20/2007 15:24

www.encolabs.com

SAMPLE DETECTION SUMMARY

Client ID: MW-1S — **Lab ID: C714874-01**

Analyte	Results	Flag	MRL	Units	Method	Notes
Sulfate	520	D	20	mg/L	EPA 300.0	

Client ID: MW-1D — **Lab ID: C714874-02**

Analyte	Results	Flag	MRL	Units	Method	Notes
Barium	365		10.0	ug/L	EPA 6010B	
Cadmium	0.70	J	1.00	ug/L	EPA 6010B	
Sulfate	11		2.0	mg/L	EPA 300.0	

Client ID: MW-2S — **Lab ID: C714874-03**

Analyte	Results	Flag	MRL	Units	Method	Notes
Barium	256		10.0	ug/L	EPA 6010B	
Sulfate	3.6		2.0	mg/L	EPA 300.0	

Client ID: MW-2D — **Lab ID: C714874-04**

Analyte	Results	Flag	MRL	Units	Method	Notes
Barium	273		10.0	ug/L	EPA 6010B	
Sulfate	4.8		2.0	mg/L	EPA 300.0	

Client ID: MW-3 — **Lab ID: C714874-05**

Analyte	Results	Flag	MRL	Units	Method	Notes
Sulfate	380	D	50	mg/L	EPA 300.0	

Client ID: MW-4 — **Lab ID: C714874-06**

Analyte	Results	Flag	MRL	Units	Method	Notes
Barium	147		10.0	ug/L	EPA 6010B	
Sulfate	5.9		2.0	mg/L	EPA 300.0	

Client ID: MW-5S — **Lab ID: C714874-07**

Analyte	Results	Flag	MRL	Units	Method	Notes
Barium	278		10.0	ug/L	EPA 6010B	
Sulfate	4.9		2.0	mg/L	EPA 300.0	

Client ID: MW-5D — **Lab ID: C714874-08**

Analyte	Results	Flag	MRL	Units	Method	Notes
Barium	258		10.0	ug/L	EPA 6010B	
Sulfate	6.6		2.0	mg/L	EPA 300.0	

Client ID: MW-6 — **Lab ID: C714874-09**

Analyte	Results	Flag	MRL	Units	Method	Notes
Sulfate	290	D	20	mg/L	EPA 300.0	

Client ID: MW-7 — **Lab ID: C714874-10**

Analyte	Results	Flag	MRL	Units	Method	Notes
Sulfate	250	D	20	mg/L	EPA 300.0	

Client ID: MW-8 — **Lab ID: C714874-11**

Analyte	Results	Flag	MRL	Units	Method	Notes

www.encolabs.com

Client ID: MW-8 **Lab ID: C714874-11**

Analyte	Results	Flag	MRL	Units	Method	Notes
Sulfate	430	D	20	mg/L	EPA 300.0	

Client ID: SW-1 Swift Creek Bridge **Lab ID: C714874-12**

Analyte	Results	Flag	MRL	Units	Method	Notes
Barium	39.5		10.0	ug/L	EPA 6010B	
Sulfate	3.8		2.0	mg/L	EPA 300.0	

Client ID: MW-1S **Lab ID: C715711-01**

Analyte	Results	Flag	MRL	Units	Method	Notes
Barium	529	B	10.0	ug/L	EPA 6010B	
Lead	30.7		10.0	ug/L	EPA 6010B	

Client ID: MW-1S **Lab ID: C715711-01RE2**

Analyte	Results	Flag	MRL	Units	Method	Notes
Mercury	0.89		0.20	ug/L	EPA 7470A	Q

Client ID: MW-3 **Lab ID: C715711-02**

Analyte	Results	Flag	MRL	Units	Method	Notes
Barium	133	B	10.0	ug/L	EPA 6010B	
Lead	36.3		10.0	ug/L	EPA 6010B	
Mercury	0.13	J	0.20	ug/L	EPA 7470A	

Client ID: MW-6 **Lab ID: C715711-03**

Analyte	Results	Flag	MRL	Units	Method	Notes
Arsenic	8.1	J	10.0	ug/L	EPA 6010B	
Barium	120	B	10.0	ug/L	EPA 6010B	
Lead	74.4		10.0	ug/L	EPA 6010B	
Mercury	0.26		0.20	ug/L	EPA 7470A	

Client ID: MW-7 **Lab ID: C715711-04**

Analyte	Results	Flag	MRL	Units	Method	Notes
Arsenic	28.8		10.0	ug/L	EPA 6010B	
Barium	81.2	B	10.0	ug/L	EPA 6010B	
Lead	124		10.0	ug/L	EPA 6010B	

Client ID: MW-7 **Lab ID: C715711-04RE2**

Analyte	Results	Flag	MRL	Units	Method	Notes
Mercury	0.72		0.20	ug/L	EPA 7470A	Q

Client ID: MW-8 **Lab ID: C715711-05**

Analyte	Results	Flag	MRL	Units	Method	Notes
Arsenic	30.1		10.0	ug/L	EPA 6010B	
Barium	43.0	B	10.0	ug/L	EPA 6010B	
Lead	37.6		10.0	ug/L	EPA 6010B	

www.encolabs.com

ANALYTICAL RESULTS

Description: MW-1S
Matrix: Water
Project: Swift Creek

Lab Sample ID: C714874-01
Sampled: 10/22/07 10:55
Sampled By: Jack Sherrill

Received: 10/22/07 17:55
Work Order: C714874

Classical Chemistry Parameters

** - ENCO Orlando certified analyte [NC 424]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Sulfate [14808-79-8] *	**520**	D	mg/L	10	0.30	20	7J25011	EPA 300.0	10/25/07 16:26	RSA	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: MW-1D
Matrix: Water
Project: Swift Creek

Lab Sample ID: C714874-02
Sampled: 10/22/07 11:00
Sampled By: Jack Sherrill

Received: 10/22/07 17:55
Work Order: C714874

Metals by EPA 6000/7000 Series Methods

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] *	2.0	U	ug/L	1	2.0	10.0	7J24007	EPA 6010B	10/30/07 17:03	VLO	
Barium [7440-39-3] *	**365**		ug/L	1	0.20	10.0	7J24007	EPA 6010B	10/30/07 17:03	VLO	
Cadmium [7440-43-9] *	**0.70**	J	ug/L	1	0.50	1.00	7J24007	EPA 6010B	10/30/07 17:03	VLO	
Chromium [7440-47-3] *	2.0	U	ug/L	1	2.0	10.0	7J24007	EPA 6010B	10/30/07 17:03	VLO	
Lead [7439-92-1] *	2.0	U	ug/L	1	2.0	10.0	7J24007	EPA 6010B	10/30/07 17:03	VLO	
Mercury [7439-97-6] *	0.11	U	ug/L	1	0.11	0.20	7J25015	EPA 7470A	10/26/07 11:51	MPL	
Selenium [7782-49-2] *	2.0	U	ug/L	1	2.0	10.0	7J24007	EPA 6010B	10/30/07 17:03	VLO	
Silver [7440-22-4] *	2.0	U	ug/L	1	2.0	10.0	7J24007	EPA 6010B	10/30/07 17:03	VLO	

www.encolabs.com

Description: MW-1D
Matrix: Water
Project: Swift Creek

Lab Sample ID: C714874-02
Sampled: 10/22/07 11:00
Sampled By: Jack Sherrill

Received: 10/22/07 17:55
Work Order: C714874

Classical Chemistry Parameters

** - ENCO Orlando certified analyte [NC 424]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Sulfate [14808-79-8] *	**11**		mg/L	1	0.03	2.0	7J25011	EPA 300.0	10/25/07 16:44	RSA	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: MW-2S
Matrix: Water
Project: Swift Creek

Lab Sample ID: C714874-03
Sampled: 10/22/07 11:10
Sampled By: Jack Sherrill

Received: 10/22/07 17:55
Work Order: C714874

Metals by EPA 6000/7000 Series Methods

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] *	2.0	U	ug/L	1	2.0	10.0	7J24007	EPA 6010B	10/30/07 17:10	VLO	
Barium [7440-39-3] *	**256**		ug/L	1	0.20	10.0	7J24007	EPA 6010B	10/30/07 17:10	VLO	
Cadmium [7440-43-9] *	0.50	U	ug/L	1	0.50	1.00	7J24007	EPA 6010B	10/30/07 17:10	VLO	
Chromium [7440-47-3] *	2.0	U	ug/L	1	2.0	10.0	7J24007	EPA 6010B	10/30/07 17:10	VLO	
Lead [7439-92-1] *	2.0	U	ug/L	1	2.0	10.0	7J24007	EPA 6010B	10/30/07 17:10	VLO	
Mercury [7439-97-6] *	0.11	U	ug/L	1	0.11	0.20	7J25015	EPA 7470A	10/26/07 11:54	MPL	
Selenium [7782-49-2] *	2.0	U	ug/L	1	2.0	10.0	7J24007	EPA 6010B	10/30/07 17:10	VLO	
Silver [7440-22-4] *	2.0	U	ug/L	1	2.0	10.0	7J24007	EPA 6010B	10/30/07 17:10	VLO	

www.encolabs.com

Description: MW-2S
Matrix: Water
Project: Swift Creek

Lab Sample ID: C714874-03
Sampled: 10/22/07 11:10
Sampled By: Jack Sherrill

Received: 10/22/07 17:55
Work Order: C714874

Classical Chemistry Parameters

** - ENCO Orlando certified analyte [NC 424]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Sulfate [14808-79-8] *	**3.6**		mg/L	1	0.03	2.0	7J25011	EPA 300.0	10/25/07 17:02	RSA	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: MW-2D
Matrix: Water
Project: Swift Creek

Lab Sample ID: C714874-04
Sampled: 10/22/07 11:15
Sampled By: Jack Sherrill

Received: 10/22/07 17:55
Work Order: C714874

Metals by EPA 6000/7000 Series Methods

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] *	2.0	U	ug/L	1	2.0	10.0	7J24007	EPA 6010B	10/30/07 17:17	VLO	
Barium [7440-39-3] *	**273**		ug/L	1	0.20	10.0	7J24007	EPA 6010B	10/30/07 17:17	VLO	
Cadmium [7440-43-9] *	0.50	U	ug/L	1	0.50	1.00	7J24007	EPA 6010B	10/30/07 17:17	VLO	
Chromium [7440-47-3] *	2.0	U	ug/L	1	2.0	10.0	7J24007	EPA 6010B	10/30/07 17:17	VLO	
Lead [7439-92-1] *	2.0	U	ug/L	1	2.0	10.0	7J24007	EPA 6010B	10/30/07 17:17	VLO	
Mercury [7439-97-6] *	0.11	U	ug/L	1	0.11	0.20	7J25015	EPA 7470A	10/26/07 11:57	MPL	
Selenium [7782-49-2] *	2.0	U	ug/L	1	2.0	10.0	7J24007	EPA 6010B	10/30/07 17:17	VLO	
Silver [7440-22-4] *	2.0	U	ug/L	1	2.0	10.0	7J24007	EPA 6010B	10/30/07 17:17	VLO	

www.encolabs.com

Description: MW-2D
Matrix: Water
Project: Swift Creek

Lab Sample ID: C714874-04
Sampled: 10/22/07 11:15
Sampled By: Jack Sherrill

Received: 10/22/07 17:55
Work Order: C714874

Classical Chemistry Parameters

** - ENCO Orlando certified analyte [NC 424]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Sulfate [14808-79-8] *	**4.8**		mg/L	1	0.03	2.0	7J25011	EPA 300.0	10/25/07 17:20	RSA	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: MW-3
Matrix: Water
Project: Swift Creek

Lab Sample ID: C714874-05
Sampled: 10/22/07 10:45
Sampled By: Jack Sherrill

Received: 10/22/07 17:55
Work Order: C714874

Classical Chemistry Parameters

** - ENCO Orlando certified analyte [NC 424]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Sulfate [14808-79-8] *	**380**	D	mg/L	25	0.75	50	7J25011	EPA 300.0	10/25/07 17:37	RSA	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: MW-4
Matrix: Water
Project: Swift Creek

Lab Sample ID: C714874-06
Sampled: 10/22/07 10:30
Sampled By: Jack Sherrill

Received: 10/22/07 17:55
Work Order: C714874

Metals by EPA 6000/7000 Series Methods

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] *	2.0	U	ug/L	1	2.0	10.0	7J24007	EPA 6010B	10/30/07 17:31	VLO	
Barium [7440-39-3] *	**147**		ug/L	1	0.20	10.0	7J24007	EPA 6010B	10/30/07 17:31	VLO	
Cadmium [7440-43-9] *	0.50	U	ug/L	1	0.50	1.00	7J24007	EPA 6010B	10/30/07 17:31	VLO	
Chromium [7440-47-3] *	2.0	U	ug/L	1	2.0	10.0	7J24007	EPA 6010B	10/30/07 17:31	VLO	
Lead [7439-92-1] *	2.0	U	ug/L	1	2.0	10.0	7J24007	EPA 6010B	10/30/07 17:31	VLO	
Mercury [7439-97-6] *	0.11	U	ug/L	1	0.11	0.20	7J25015	EPA 7470A	10/26/07 12:02	MPL	
Selenium [7782-49-2] *	2.0	U	ug/L	1	2.0	10.0	7J24007	EPA 6010B	10/30/07 17:31	VLO	
Silver [7440-22-4] *	2.0	U	ug/L	1	2.0	10.0	7J24007	EPA 6010B	10/30/07 17:31	VLO	

www.encolabs.com

Description: MW-4
Matrix: Water
Project: Swift Creek

Lab Sample ID: C714874-06
Sampled: 10/22/07 10:30
Sampled By: Jack Sherrill

Received: 10/22/07 17:55
Work Order: C714874

Classical Chemistry Parameters

** - ENCO Orlando certified analyte [NC 424]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Sulfate [14808-79-8] *	**5.9**		mg/L	1	0.03	2.0	7J25011	EPA 300.0	10/25/07 17:55	RSA	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: MW-5S
Matrix: Water
Project: Swift Creek

Lab Sample ID: C714874-07
Sampled: 10/22/07 10:20
Sampled By: Jack Sherrill

Received: 10/22/07 17:55
Work Order: C714874

Metals by EPA 6000/7000 Series Methods

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] *	2.0	U	ug/L	1	2.0	10.0	7J24007	EPA 6010B	10/30/07 17:38	VLO	
Barium [7440-39-3] *	**278**		ug/L	1	0.20	10.0	7J24007	EPA 6010B	10/30/07 17:38	VLO	
Cadmium [7440-43-9] *	0.50	U	ug/L	1	0.50	1.00	7J24007	EPA 6010B	10/30/07 17:38	VLO	
Chromium [7440-47-3] *	2.0	U	ug/L	1	2.0	10.0	7J24007	EPA 6010B	10/30/07 17:38	VLO	
Lead [7439-92-1] *	2.0	U	ug/L	1	2.0	10.0	7J24007	EPA 6010B	10/30/07 17:38	VLO	
Mercury [7439-97-6] *	0.11	U	ug/L	1	0.11	0.20	7J25015	EPA 7470A	10/26/07 12:05	MPL	
Selenium [7782-49-2] *	2.0	U	ug/L	1	2.0	10.0	7J24007	EPA 6010B	10/30/07 17:38	VLO	
Silver [7440-22-4] *	2.0	U	ug/L	1	2.0	10.0	7J24007	EPA 6010B	10/30/07 17:38	VLO	

www.encolabs.com

Description: MW-5S
Matrix: Water
Project: Swift Creek

Lab Sample ID: C714874-07
Sampled: 10/22/07 10:20
Sampled By: Jack Sherrill

Received: 10/22/07 17:55
Work Order: C714874

Classical Chemistry Parameters

** - ENCO Orlando certified analyte [NC 424]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Sulfate [14808-79-8] *	**4.9**		mg/L	1	0.03	2.0	7J25011	EPA 300.0	10/25/07 18:13	RSA	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: MW-5D
Matrix: Water
Project: Swift Creek

Lab Sample ID: C714874-08
Sampled: 10/22/07 10:25
Sampled By: Jack Sherrill

Received: 10/22/07 17:55
Work Order: C714874

Metals by EPA 6000/7000 Series Methods

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] *	2.0	U	ug/L	1	2.0	10.0	7J24007	EPA 6010B	10/30/07 17:45	VLO	
Barium [7440-39-3] *	**258**		ug/L	1	0.20	10.0	7J24007	EPA 6010B	10/30/07 17:45	VLO	
Cadmium [7440-43-9] *	0.50	U	ug/L	1	0.50	1.00	7J24007	EPA 6010B	10/30/07 17:45	VLO	
Chromium [7440-47-3] *	2.0	U	ug/L	1	2.0	10.0	7J24007	EPA 6010B	10/30/07 17:45	VLO	
Lead [7439-92-1] *	2.0	U	ug/L	1	2.0	10.0	7J24007	EPA 6010B	10/30/07 17:45	VLO	
Mercury [7439-97-6] *	0.11	U	ug/L	1	0.11	0.20	7J25015	EPA 7470A	10/26/07 12:08	MPL	
Selenium [7782-49-2] *	2.0	U	ug/L	1	2.0	10.0	7J24007	EPA 6010B	10/30/07 17:45	VLO	
Silver [7440-22-4] *	2.0	U	ug/L	1	2.0	10.0	7J24007	EPA 6010B	10/30/07 17:45	VLO	

www.encolabs.com

Description: MW-5D
Matrix: Water
Project: Swift Creek

Lab Sample ID: C714874-08
Sampled: 10/22/07 10:25
Sampled By: Jack Sherrill

Received: 10/22/07 17:55
Work Order: C714874

Classical Chemistry Parameters

** - ENCO Orlando certified analyte [NC 424]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Sulfate [14808-79-8] *	**6.6**		mg/L	1	0.03	2.0	7J25011	EPA 300.0	10/25/07 19:06	RSA	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: MW-6
Matrix: Water
Project: Swift Creek

Lab Sample ID: C714874-09
Sampled: 10/22/07 12:30
Sampled By: Jack Sherrill

Received: 10/22/07 17:55
Work Order: C714874

Classical Chemistry Parameters

** - ENCO Orlando certified analyte [NC 424]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Sulfate [14808-79-8] *	**290**	D	mg/L	10	0.30	20	7J25011	EPA 300.0	10/25/07 19:23	RSA	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: MW-7
Matrix: Water
Project: Swift Creek

Lab Sample ID: C714874-10
Sampled: 10/22/07 12:10
Sampled By: Jack Sherrill

Received: 10/22/07 17:55
Work Order: C714874

Classical Chemistry Parameters

** - ENCO Orlando certified analyte [NC 424]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Sulfate [14808-79-8] *	**250**	D	mg/L	10	0.30	20	7J25011	EPA 300.0	10/25/07 19:41	RSA	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: MW-8
Matrix: Water
Project: Swift Creek

Lab Sample ID: C714874-11
Sampled: 10/22/07 11:50
Sampled By: Jack Sherrill

Received: 10/22/07 17:55
Work Order: C714874

Classical Chemistry Parameters

** - ENCO Orlando certified analyte [NC 424]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Sulfate [14808-79-8] *	**430**	D	mg/L	10	0.30	20	7J25011	EPA 300.0	10/25/07 19:59	RSA	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: SW-1 Swift Creek Bridge
Matrix: Water
Project: Swift Creek

Lab Sample ID: C714874-12
Sampled: 10/22/07 13:00
Sampled By: Jack Sherrill

Received: 10/22/07 17:55
Work Order: C714874

Metals by EPA 6000/7000 Series Methods

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] *	2.0	U	ug/L	1	2.0	10.0	7J24007	EPA 6010B	10/30/07 18:32	VLO	
Barium [7440-39-3] *	**39.5**		ug/L	1	0.20	10.0	7J24007	EPA 6010B	10/30/07 18:32	VLO	
Cadmium [7440-43-9] *	0.50	U	ug/L	1	0.50	1.00	7J24007	EPA 6010B	10/30/07 18:32	VLO	
Chromium [7440-47-3] *	2.0	U	ug/L	1	2.0	10.0	7J24007	EPA 6010B	10/30/07 18:32	VLO	
Lead [7439-92-1] *	2.0	U	ug/L	1	2.0	10.0	7J24007	EPA 6010B	10/30/07 18:32	VLO	
Mercury [7439-97-6] *	0.11	U	ug/L	1	0.11	0.20	7J25015	EPA 7470A	10/26/07 12:24	MPL	
Selenium [7782-49-2] *	2.0	U	ug/L	1	2.0	10.0	7J24007	EPA 6010B	10/30/07 18:32	VLO	
Silver [7440-22-4] *	2.0	U	ug/L	1	2.0	10.0	7J24007	EPA 6010B	10/30/07 18:32	VLO	

www.encolabs.com

Description: SW-1 Swift Creek Bridge
Matrix: Water
Project: Swift Creek

Lab Sample ID: C714874-12
Sampled: 10/22/07 13:00
Sampled By: Jack Sherrill

Received: 10/22/07 17:55
Work Order: C714874

Classical Chemistry Parameters

** - ENCO Orlando certified analyte [NC 424]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Sulfate [14808-79-8] *	**3.8**		mg/L	1	0.03	2.0	7J25011	EPA 300.0	10/25/07 20:16	RSA	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: MW-1S
Matrix: Ground Water
Project: Swift Creek-Resample

Lab Sample ID: C715711-01
Sampled: 11/15/07 10:30
Sampled By: John Sherrill

Received: 11/15/07 14:30
Work Order: C715711

Metals by EPA 6000/7000 Series Methods

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] *	2.0	U	ug/L	1	2.0	10.0	7K16001	EPA 6010B	11/21/07 13:18	VLO	
Barium [7440-39-3] *	**529**	B	ug/L	1	0.20	10.0	7K16001	EPA 6010B	11/21/07 13:18	VLO	
Cadmium [7440-43-9] *	0.50	U	ug/L	1	0.50	1.00	7K16001	EPA 6010B	11/21/07 13:18	VLO	
Chromium [7440-47-3] *	2.0	U	ug/L	1	2.0	10.0	7K16001	EPA 6010B	11/21/07 13:18	VLO	
Lead [7439-92-1] *	**30.7**		ug/L	1	2.0	10.0	7K16001	EPA 6010B	11/21/07 13:18	VLO	
Mercury [7439-97-6] *	**0.89**		ug/L	1	0.11	0.20	7L19001	EPA 7470A	12/20/07 09:37	MPL	Q
Selenium [7782-49-2] *	2.0	U	ug/L	1	2.0	10.0	7K16001	EPA 6010B	11/21/07 13:18	VLO	
Silver [7440-22-4] *	2.0	U	ug/L	1	2.0	10.0	7K16001	EPA 6010B	11/21/07 13:18	VLO	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: MW-3
Matrix: Ground Water
Project: Swift Creek-Resample

Lab Sample ID: C715711-02
Sampled: 11/15/07 10:35
Sampled By: John Sherrill

Received: 11/15/07 14:30
Work Order: C715711

Metals by EPA 6000/7000 Series Methods

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] *	2.0	U	ug/L	1	2.0	10.0	7K16001	EPA 6010B	11/21/07 13:41	VLO	
Barium [7440-39-3] *	**133**	B	ug/L	1	0.20	10.0	7K16001	EPA 6010B	11/21/07 13:41	VLO	
Cadmium [7440-43-9] *	0.50	U	ug/L	1	0.50	1.00	7K16001	EPA 6010B	11/21/07 13:41	VLO	
Chromium [7440-47-3] *	2.0	U	ug/L	1	2.0	10.0	7K16001	EPA 6010B	11/21/07 13:41	VLO	
Lead [7439-92-1] *	**36.3**		ug/L	1	2.0	10.0	7K16001	EPA 6010B	11/21/07 13:41	VLO	
Mercury [7439-97-6] *	**0.13**	J	ug/L	1	0.11	0.20	7K19023	EPA 7470A	11/20/07 15:15	MPL	
Selenium [7782-49-2] *	2.0	U	ug/L	1	2.0	10.0	7K16001	EPA 6010B	11/21/07 13:41	VLO	
Silver [7440-22-4] *	2.0	U	ug/L	1	2.0	10.0	7K16001	EPA 6010B	11/21/07 13:41	VLO	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: MW-6
Matrix: Ground Water
Project: Swift Creek-Resample

Lab Sample ID: C715711-03
Sampled: 11/15/07 11:20
Sampled By: John Sherrill

Received: 11/15/07 14:30
Work Order: C715711

Metals by EPA 6000/7000 Series Methods

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] *	**8.1**	J	ug/L	1	2.0	10.0	7K16001	EPA 6010B	11/21/07 13:48	VLO	
Barium [7440-39-3] *	**120**	B	ug/L	1	0.20	10.0	7K16001	EPA 6010B	11/21/07 13:48	VLO	
Cadmium [7440-43-9] *	0.50	U	ug/L	1	0.50	1.00	7K16001	EPA 6010B	11/21/07 13:48	VLO	
Chromium [7440-47-3] *	2.0	U	ug/L	1	2.0	10.0	7K16001	EPA 6010B	11/21/07 13:48	VLO	
Lead [7439-92-1] *	**74.4**		ug/L	1	2.0	10.0	7K16001	EPA 6010B	11/21/07 13:48	VLO	
Mercury [7439-97-6] *	**0.26**		ug/L	1	0.11	0.20	7K19023	EPA 7470A	11/20/07 15:18	MPL	
Selenium [7782-49-2] *	2.0	U	ug/L	1	2.0	10.0	7K16001	EPA 6010B	11/21/07 13:48	VLO	
Silver [7440-22-4] *	2.0	U	ug/L	1	2.0	10.0	7K16001	EPA 6010B	11/21/07 13:48	VLO	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: MW-7
Matrix: Ground Water
Project: Swift Creek-Resample

Lab Sample ID: C715711-04
Sampled: 11/15/07 10:45
Sampled By: John Sherrill

Received: 11/15/07 14:30
Work Order: C715711

Metals by EPA 6000/7000 Series Methods

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] *	**28.8**		ug/L	1	2.0	10.0	7K16001	EPA 6010B	11/21/07 13:55	VLO	
Barium [7440-39-3] *	**81.2**	B	ug/L	1	0.20	10.0	7K16001	EPA 6010B	11/21/07 13:55	VLO	
Cadmium [7440-43-9] *	0.50	U	ug/L	1	0.50	1.00	7K16001	EPA 6010B	11/21/07 13:55	VLO	
Chromium [7440-47-3] *	2.0	U	ug/L	1	2.0	10.0	7K16001	EPA 6010B	11/21/07 13:55	VLO	
Lead [7439-92-1] *	**124**		ug/L	1	2.0	10.0	7K16001	EPA 6010B	11/21/07 13:55	VLO	
Mercury [7439-97-6] *	**0.72**		ug/L	1	0.11	0.20	7L19001	EPA 7470A	12/20/07 09:39	MPL	Q
Selenium [7782-49-2] *	2.0	U	ug/L	1	2.0	10.0	7K16001	EPA 6010B	11/21/07 13:55	VLO	
Silver [7440-22-4] *	2.0	U	ug/L	1	2.0	10.0	7K16001	EPA 6010B	11/21/07 13:55	VLO	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

Description: MW-8
Matrix: Ground Water
Project: Swift Creek-Resample

Lab Sample ID: C715711-05
Sampled: 11/15/07 11:00
Sampled By: John Sherrill

Received: 11/15/07 14:30
Work Order: C715711

Metals by EPA 6000/7000 Series Methods

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2] *	**30.1**		ug/L	1	2.0	10.0	7K16001	EPA 6010B	11/21/07 14:02	VLO	
Barium [7440-39-3] *	**43.0**	B	ug/L	1	0.20	10.0	7K16001	EPA 6010B	11/21/07 14:02	VLO	
Cadmium [7440-43-9] *	0.50	U	ug/L	1	0.50	1.00	7K16001	EPA 6010B	11/21/07 14:02	VLO	
Chromium [7440-47-3] *	2.0	U	ug/L	1	2.0	10.0	7K16001	EPA 6010B	11/21/07 14:02	VLO	
Lead [7439-92-1] *	**37.6**		ug/L	1	2.0	10.0	7K16001	EPA 6010B	11/21/07 14:02	VLO	
Mercury [7439-97-6] *	0.11	U	ug/L	1	0.11	0.20	7K19023	EPA 7470A	11/20/07 15:24	WinHg	
Selenium [7782-49-2] *	2.0	U	ug/L	1	2.0	10.0	7K16001	EPA 6010B	11/21/07 14:02	VLO	
Silver [7440-22-4] *	2.0	U	ug/L	1	2.0	10.0	7K16001	EPA 6010B	11/21/07 14:02	VLO	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

www.encolabs.com

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 7J24007 - EPA 3005A

Blank (7J24007-BLK1) Prepared: 10/24/2007 09:09 Analyzed: 10/30/2007 15:02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.0	U	10.0	ug/L							
Barium	0.20	U	10.0	ug/L							
Cadmium	0.50	U	1.00	ug/L							
Chromium	2.0	U	10.0	ug/L							
Lead	2.0	U	10.0	ug/L							
Selenium	2.0	U	10.0	ug/L							
Silver	2.0	U	10.0	ug/L							

LCS (7J24007-BS1) Prepared: 10/24/2007 09:09 Analyzed: 10/30/2007 15:28

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	517		10.0	ug/L	500		103	82-117			
Barium	525		10.0	ug/L	500		105	72-125			
Cadmium	248		1.00	ug/L	250		99	72-120			
Chromium	513		10.0	ug/L	500		103	78-119			
Lead	518		10.0	ug/L	500		104	72-121			
Selenium	579		10.0	ug/L	500		116	82-127			
Silver	48.1		10.0	ug/L	50.0		96	80-128			

Matrix Spike (7J24007-MS1) Prepared: 10/24/2007 09:09 Analyzed: 10/30/2007 15:46

Source: C713717-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	526		10.0	ug/L	500	2.7	105	64-126			
Barium	556		10.0	ug/L	500	25.3	106	74-119			
Cadmium	257		1.00	ug/L	250	1.20	102	68-121			
Chromium	514		10.0	ug/L	500	2.0 U	103	73-120			
Lead	531		10.0	ug/L	500	2.0 U	106	68-126			
Selenium	598		10.0	ug/L	500	2.0 U	120	65-129			
Silver	47.2		10.0	ug/L	50.0	2.0 U	94	69-121			

Matrix Spike Dup (7J24007-MSD1) Prepared: 10/24/2007 09:09 Analyzed: 10/30/2007 15:53

Source: C713717-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	526		10.0	ug/L	500	2.7	105	64-126	0.08	12	
Barium	560		10.0	ug/L	500	25.3	107	74-119	0.8	11	
Cadmium	258		1.00	ug/L	250	1.20	103	68-121	0.7	12	
Chromium	524		10.0	ug/L	500	2.0 U	105	73-120	2	10	
Lead	534		10.0	ug/L	500	2.0 U	107	68-126	0.6	19	
Selenium	603		10.0	ug/L	500	2.0 U	121	65-129	1	10	
Silver	49.5		10.0	ug/L	50.0	2.0 U	99	69-121	5	12	

Batch 7J25015 - EPA 7470A

Blank (7J25015-BLK1) Prepared: 10/25/2007 12:26 Analyzed: 10/26/2007 11:13

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 7J25015 - EPA 7470A

Blank (7J25015-BLK1) Continued Prepared: 10/25/2007 12:26 Analyzed: 10/26/2007 11:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.11	U	0.20	ug/L							

LCS (7J25015-BS1) Prepared: 10/25/2007 12:26 Analyzed: 10/26/2007 11:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.99		0.20	ug/L	5.00		100	87-123			

Matrix Spike (7J25015-MS1) Prepared: 10/25/2007 12:26 Analyzed: 10/26/2007 11:22
Source: C713717-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	6.06		0.20	ug/L	5.00	0.66	108	63-132			

Matrix Spike Dup (7J25015-MSD1) Prepared: 10/25/2007 12:26 Analyzed: 10/26/2007 11:24
Source: C713717-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.72		0.20	ug/L	5.00	0.66	101	63-132	6	10	

Post Spike (7J25015-PS1) Prepared: 10/25/2007 12:26 Analyzed: 10/26/2007 11:27
Source: C713717-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.47		0.20	ug/L	5.00	0.66	96	0-200			

Batch 7K16001 - EPA 3005A

Blank (7K16001-BLK1) Prepared: 11/16/2007 07:49 Analyzed: 11/21/2007 10:41

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.0	U	10.0	ug/L							
Barium	**0.20**	**J**	10.0	ug/L							
Cadmium	0.50	U	1.00	ug/L							
Chromium	2.0	U	10.0	ug/L							
Lead	2.0	U	10.0	ug/L							
Selenium	**3.1**	**J**	10.0	ug/L							
Silver	2.0	U	10.0	ug/L							

LCS (7K16001-BS1) Prepared: 11/16/2007 07:49 Analyzed: 11/21/2007 10:57

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	508		10.0	ug/L	500		102	82-117			
Barium	510	B	10.0	ug/L	500		102	72-125			
Cadmium	258		1.00	ug/L	250		103	72-120			
Chromium	500		10.0	ug/L	500		100	78-119			
Lead	497		10.0	ug/L	500		99	72-121			
Selenium	526	B	10.0	ug/L	500		105	82-127			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 7K16001 - EPA 3005A

LCS (7K16001-BS1) Continued Prepared: 11/16/2007 07:49 Analyzed: 11/21/2007 10:57

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Silver	43.9		10.0	ug/L	50.0		88	80-128			

Matrix Spike (7K16001-MS1) Prepared: 11/16/2007 07:49 Analyzed: 11/21/2007 11:11

Source: C715395-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	508		10.0	ug/L	500	2.0 U	102	64-126			
Barium	763	B	10.0	ug/L	500	253	102	74-119			
Cadmium	258		1.00	ug/L	250	0.50 U	103	68-121			
Chromium	498		10.0	ug/L	500	2.0 U	100	73-120			
Lead	497		10.0	ug/L	500	2.0 U	99	68-126			
Selenium	522	B	10.0	ug/L	500	2.0 U	104	65-129			
Silver	44.2		10.0	ug/L	50.0	2.0 U	88	69-121			

Matrix Spike Dup (7K16001-MSD1) Prepared: 11/16/2007 07:49 Analyzed: 11/21/2007 11:18

Source: C715395-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	509		10.0	ug/L	500	2.0 U	102	64-126	0.3	12	
Barium	767	B	10.0	ug/L	500	253	103	74-119	0.5	11	
Cadmium	261		1.00	ug/L	250	0.50 U	104	68-121	1	12	
Chromium	503		10.0	ug/L	500	2.0 U	101	73-120	1	10	
Lead	502		10.0	ug/L	500	2.0 U	100	68-126	1	19	
Selenium	525	B	10.0	ug/L	500	2.0 U	105	65-129	0.5	10	
Silver	44.9		10.0	ug/L	50.0	2.0 U	90	69-121	2	12	

Batch 7K19023 - EPA 7470A

Blank (7K19023-BLK1) Prepared: 11/19/2007 14:16 Analyzed: 11/20/2007 14:49

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.11	U	0.20	ug/L							

LCS (7K19023-BS1) Prepared: 11/19/2007 14:16 Analyzed: 11/20/2007 14:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.51		0.20	ug/L	5.00		110	87-123			

Matrix Spike (7K19023-MS1) Prepared: 11/19/2007 14:16 Analyzed: 11/20/2007 14:57

Source: C715711-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	6.77		0.20	ug/L	5.00	1.45	106	63-132			

Matrix Spike Dup (7K19023-MSD1) Prepared: 11/19/2007 14:16 Analyzed: 11/20/2007 15:01

Source: C715711-01

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 7K19023 - EPA 7470A

Matrix Spike Dup (7K19023-MSD1) Continued Prepared: 11/19/2007 14:16 Analyzed: 11/20/2007 15:01

Source: C715711-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	6.74		0.20	ug/L	5.00	1.45	106	63-132	0.5	10	

Post Spike (7K19023-PS1) Prepared: 11/19/2007 14:16 Analyzed: 11/20/2007 15:09

Source: C715711-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	6.78		0.20	ug/L	5.00	1.45	107	0-200			

Batch 7L19001 - EPA 7470A

Blank (7L19001-BLK1) Prepared: 12/19/2007 06:27 Analyzed: 12/20/2007 09:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.11	U	0.20	ug/L							

LCS (7L19001-BS1) Prepared: 12/19/2007 06:27 Analyzed: 12/20/2007 09:15

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.34		0.20	ug/L	5.00		107	87-123			

Matrix Spike (7L19001-MS1) Prepared: 12/19/2007 06:27 Analyzed: 12/20/2007 09:20

Source: C716507-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	2.90		0.20	ug/L	5.00	0.11 U	58	63-132			QM-07

Matrix Spike Dup (7L19001-MSD1) Prepared: 12/19/2007 06:27 Analyzed: 12/20/2007 09:23

Source: C716507-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	2.88		0.20	ug/L	5.00	0.11 U	58	63-132	0.8	10	QM-07

Post Spike (7L19001-PS1) Prepared: 12/19/2007 06:27 Analyzed: 12/20/2007 09:26

Source: C716507-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	2.65		0.20	ug/L	5.00	0.11 U	53	0-200			

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 7J25011 - NO PREP

Blank (7J25011-BLK1) Prepared: 10/25/2007 11:17 Analyzed: 10/25/2007 11:43

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 7J25011 - NO PREP

Blank (7J25011-BLK1) Continued Prepared: 10/25/2007 11:17 Analyzed: 10/25/2007 11:43

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate	0.03	U	2.0	mg/L							

LCS (7J25011-BS1) Prepared: 10/25/2007 11:17 Analyzed: 10/25/2007 12:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate	250		2.0	mg/L	250		101	90-115			

Matrix Spike (7J25011-MS1) Prepared: 10/25/2007 11:17 Analyzed: 10/25/2007 12:19

Source: A705934-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate	250		2.0	mg/L	255		99	90-115			

Matrix Spike Dup (7J25011-MSD1) Prepared: 10/25/2007 11:17 Analyzed: 10/25/2007 12:37

Source: A705934-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate	250		2.0	mg/L	255		100	90-115	0.6	10	

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
Q	Analysis performed outside of method - specified holding time.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 211
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

1015 Parsport Way
Cary, NC 27513
(919) 677-1669 Fax (919) 677-9646

Client Name: Sherrill Environmental, Inc. (SH004)	Project Number: [none]
Address: 3326 Rugby Road	Project Name/Desc: Swift Creek
City/ST/Zip: Durham, NC 27707	PO # / Billing Info:
Tel: (919) 493-6555 Fax: (919) 493-6554	Reporting Contact: Jack Sherrill
Sampler(s) Name, Affiliation (Print): John Sherrill	Billing Contact: Accounts Payable
Sampler(s) Signature: John Sherrill	Facility # (if required):

Requested Analyses: Ag,As,Ba,Cd,Cr,Hg,Pb,Se; Sulfate 375.4

Requested Turnaround Times
Note: Rush requests subject to acceptance by the facility
___ Standard
___ Expedited
Due ___/___/___

Lab Workorder: C714874

Preservative (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers			Sample Comments
	MW-1S	10/22/07	1055		Water	2	X	X	
	MW-1D		1100		Water	2	X	X	
	MW-2S		1110		Water	2	X	X	
	MW-2D		1115		Water	2	X	X	
	MW-3		1045		Water	2	X	X	
	MW-4		1030		Water	2	X	X	
	MW-5S	102	1020		Water	2	X	X	
	MW-5D		1025		Water	2	X	X	
	MW-6		1230		Water	2	X	X	
	MW-7		1210		Water	2	X	X	
	MW-8		1150		Water	2	X	X	
	SW-1 Suffolk Bridge		1300		Water	2	X	X	

<- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By: John Sherrill	Date/Time: 10/22/07 1700	Received By: [signature]	Date/Time: 10-22-07 17:55
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler # & Temp upon Receipt: 4.6		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

Matrix: GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: 1 Inc H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note: All samples submitted to ENCO Lab are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist.

www.encolabs.com

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-6314 Fax (407) 850-6945

4810 Executive Park Court, Suite 211
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

1015 Passport Way
Cary, NC 27513
(919) 677-1669 Fax (919) 677-9846

Page 1 of 1

Client Name	Sherrill Environmental, Inc. (SH004)
Project Number	[none]
Address	3326 Rugby Road
Project Name/Desc	Swift Creek-Resample
City/ST/Zip	Durham, NC 27707
PO # / Billing Info	
Tel	(919) 493-6555
Fax	(919) 493-6554
Reporting Contact	Jack Sherrill
Sampler(s) Name, Affiliation (Print)	John Sherrill
Billing Contact	Accounts Payable
Sampler(s) Signature	John Sherrill
Facility # (if required)	

Requested Analyses: Ag,As,Ba,Cd,Cr,Hg,Pb,Se

Requested Turnaround Times

Note: Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due __/__/__

Lab Workorder: C715711

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Ag,As,Ba,Cd,Cr,Hg,Pb,Se	Sample Comments
	MW-15	11/13/07	1030		Water	1	X	
	MW-3	↓	1035		Water	1	X	
	MW-6		1120		Water	1	X	
	MW 7		1045		Water	1	X	
	MW-8	↓	1100		Water	1	X	

<-- Total # of Containers

Sample Kit Prepared By: J. Box	Date/Time: 11/13/07 1700	Relinquished By: John Sherrill	Date/Time: 11/15/07 1300	Received By:	Date/Time:
Comments:		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Relinquished By:	Date/Time:	Received By: John Lowther	Date/Time: 11/15/07 1430
		Cooler #s & Temps on Receipt: C-385		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

Matrix: GW-Groundwater SD-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form unless your written agreements exist.

www.encolabs.com