5002 .1600 MSW Landfill

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FALL 2005 SEMI-ANNUAL WATER QUALITY MONITORING REPORT

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JACKSON COUNTY MUNICIPAL SOLID WASTE LANDFILL
JACKSON COUNTY, NORTH CAROLINA

Prepared for
Jackson County MSWLF

January 17, 2006

Prepared by
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TRANSMITTAL LETTER

To: Mr. Ethan Brown

From: Zan Price

Date: January 17, 2006

cc:

Subject: Jackson County Municipal Solid Waste Landfill

Contents:

1. A copy of the Fall 2005 Semiannual Water Quality Monitoring Report for the Jackson County Municipal Solid Waste Landfill prepared by Altamont Environmental, Inc., dated January 17, 2006.

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1.0 INTRODUCTION

The Jackson County Solid Waste Department maintains a closed Municipal Solid Waste Landfill (MSWLF) located approximately three-quarters of a mile west of Dillsboro, North Carolina, north of Old Dillsboro Road (Old U.S. 74). The approximate location of the landfill is shown in Figure 1. The landfill permit requires semiannual monitoring of groundwater and surface water quality.

This report serves as the second semiannual groundwater and surface water monitoring report for 2005 and is being submitted in accordance with requirements stipulated in the North Carolina Department of Environment and Natural Resources (DENR) Solid Waste Management Rules 15A North Carolina Administrative Code (NCAC) 13B. The data and report also comply with the subsequent memorandum regarding Appendix II monitoring from DENR, dated April 21, 1995. This report provides an evaluation of the groundwater and surface water quality. Statistical analyses of groundwater data and groundwater flow information are also provided.

This report contains the following items:

- Groundwater level measurements and corresponding elevations for the landfill monitoring wells;
- An illustration of groundwater and surface water sampling locations;
- Generalized groundwater flow direction map;
- Summary of groundwater and surface water analytical results;
- Statistical analyses for metals and VOCs;
- Sampling logs; and
- Groundwater and surface water quality analytical results with chain-of-custody forms.

2.0 SEMIANNUAL MONITORING

2.1 GROUNDWATER, SURFACE WATER, AND DOMESTIC WELL SAMPLING

The closed MSWLF monitoring wells (MW-01, MW-02, MW-03, MW-04, and MW-06) and surface water sample locations (SW-01 and SW-02) were sampled on October 27, 2005 by Altamont Environmental, Inc. (Altamont). MW-5 was not sampled due to an obstruction in the well casing. The monitoring well and surface water sample locations are shown on Figure 2. Altamont also sampled two domestic wells adjacent to the landfill (DW-1 (Wilkie Well) and DW-2 (Bulla Well)). The domestic wells were initially analyzed using EPA Method 8260 instead of the appropriate EPA Method 524.2, which has a lower detection limit. Therefore, the domestic wells were resampled on December 8, 2005 and analyzed for Volatile Organic Compounds (VOCs) using EPA Method 524.2.

Prior to sampling the groundwater, the static water level in each well and well depth were measured. Each well was then purged and sampled using a disposable bailer. Samples were obtained after a minimum of three well volumes had been purged and pH, specific conductivity, and temperature readings had stabilized to within ten percent of the previous reading. Oxygen reduction potential (ORP) and dissolved oxygen (DO) readings were also taken. A summary of field indicator parameters is included in Table 1 and copies of the Sampling Logs are included in Appendix A.

In correspondence dated November 19, 2002, the North Carolina Department of Environment and Natural Resources (DENR) agreed to modify the assessment monitoring requirements at the Jackson County closed landfill. Sampling and analysis for semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and pesticides are currently on a biennial basis. These parameters shall be analyzed in the October 2006 sampling event.

Groundwater and surface water samples were analyzed for the following parameters:

- Appendix II VOCs using EPA Method 8260
- Appendix II Metals using various EPA Methods from the 6010/7000 series
- Herbicides using EPA Method 8151

- Sulfide using EPA Method 376.2
- Cyanide using EPA Method 335.2

Domestic well samples were analyzed for VOCs using EPA Method 524.2.

The samples were analyzed by Pace Analytical Services, Inc. (Pace), a North Carolina certified laboratory, in Huntersville, North Carolina. Proper chain-of-custody documentation was followed during collection and transportation of each sample. A trip blank was also analyzed for VOCs. The analytical reports and chain-of-custody forms are included in Appendix B.

2.2 Analytical Results

Analytical results for the Appendix II metals and sulfide are shown in Table 2. Ten metals were detected in monitoring wells and three metals were detected in surface water samples. Barium was detected in MW-4 at a concentration greater than the respective North Carolina Administrative Code (NCAC), Title 15A, Subchapter 2L groundwater quality standard (2L Standard). No other metals were detected in monitoring wells or surface water samples at concentrations greater than the 2L Standards. Sulfide was detected in all monitoring wells sampled and both surface water samples.

The analytical results for detected VOCs are shown in Table 3. As shown in Table 3, the following VOCs were detected in one or more of the monitoring wells: 1,1-dichloroethane, 1,4-dichlorobenzene, benzene, chlorobenzene, cis-1,2-dichloroethene, methylene chloride, and o-xylene. Of the detected VOCs, 1,4-dichlorobenzene was found in MW-01, MW-03, MW-04, and MW-06 in excess of the 2L Standard. Benzene was found in MW-01 in excess of the 2L Standard. Methylene chloride was found in MW-06 in excess of the 2L Standard. No other VOCs were detected in the monitoring wells at concentrations greater than the 2L Standards. Analytical results for the domestic wells and surface water samples showed that no VOCs were detected.

Cyanide and herbicides were not detected in the monitoring wells or surface water samples. As a result, the data was not summarized in tables.

2.3 HYDROGEOLOGY

Groundwater at the MSWLF occurs in two aquifers, one in bedrock and the other in the shallow saprolite. Three bedrock wells MW-1, MW-2, and MW-6 are located in the northwest portion of the site. However, because these three wells are more or less in a linear pattern, a specific flow direction in bedrock in this area cannot be reliably ascertained.

Historically, the predominant groundwater flow direction in the shallow aquifer has been calculated from water level data collected from MW-3, MW-4, and MW-5. During the current sampling event, Altamont was unable to measure the water level for MW-5 due to an obstruction in the well casing. For previous sampling events, water level data collected from these wells indicated that the predominant groundwater flow direction in the shallow aquifer was to the southwest toward the Tuckasegee River. Figure 3 depicts the generalized groundwater flow direction based on the groundwater measurements made by Altamont on October 18, 2004.

2.4 STATISTICAL ANALYSES

Typically, the analysis of variance procedure is used to compare concentration data from several compliance wells with concentration data from background wells. However, as stated in a letter from Altamont to DENR on January 16, 2004, the MSWLF does not have an adequate background well. Monitoring well MW-1 was installed by a previous consultant in a location that was presumably thought to represent background water quality. However, the historical analytical results for samples from MW-1 suggest that water quality at MW-1 is not representative of background groundwater conditions. Therefore, an analysis of variance procedure is not feasible for this landfill.

In lieu of an analysis of variance procedure, Altamont performed the Student's t-test statistical procedure (t-test) to determine if concentrations of detected contaminants are statistically greater than their respective 2L Standard. The t-test is commonly used when comparing a time series of data (e.g., current and historic concentrations of a specific contaminant in a well) to one give value (e.g., the 2L Standard). The US Environmental Protection Agency (EPA) Maximum Contaminant Level (MCL) values were used for compounds that did not have a listed 2L Standard.

The t-test evaluates the null hypothesis that the mean concentration of each detected compound is less than or equal to the 2L Standard. If the mean for a particular compound is not statistically greater than its respective 2L Standard, then the null hypothesis is accepted. Conversely, if the mean for a particular constituent is statistically greater than the respective 2L Standard, then the null hypothesis is rejected and the mean concentration is acknowledged to be greater than the 2L Standard. This is determined by comparing the computed t-statistic to the tabulated t-statistic.

The computed t-statistic takes into account the mean, standard deviation, number of data points, and the 2L Standard, as shown in the following equation:

$$t_{computed} = \frac{\text{mean} - \text{2L Standard}}{\dfrac{\text{standard deviation}}{\sqrt{\text{sample size}}}}$$

The tabulated t-statistic is derived from a standard t-distribution table and is based on the sample size and a pre-determined sensitivity value (α). DENR, in Subchapter 13B, Section .1632(h)(2), established α as 0.01. If the tabulated t-statistic exceeds the computed t-statistic, then the null hypothesis is accepted. If the computed t-statistic exceeds the tabulated t-statistic, then the null hypothesis is rejected, and the alternate hypothesis is accepted.

Data for detected metals and VOCs from all available laboratory analyses performed to date were taken into account for the statistical evaluation. Compounds that were not detected at concentrations above the laboratory reporting limit were evaluated using the full reporting limit, unless the reporting limit was greater than the 2L Standard. Altamont consulted with Mr. Arthur Lubin, an environmental statistician with the US EPA, on January 9, 2004 concerning the use of values reported as "non-detectable". Mr. Lubin stated that a valid statistical comparison is not possible when a sample set contains non-detect values and the detection limit is greater than the groundwater standard. He stated that a qualitative analysis of the data is the only feasible option for this scenario.

The results of the statistical analysis are included as Appendix C. According to statistical analyses, none of the detected metal concentrations in the monitoring wells were statistically greater than their respective groundwater standard.

The statistical analyses also showed that the VOC 1,4-dichlorobenzene has been detected in MW-1, MW-3, MW-4, and MW-6 at concentrations statistically greater than the respective groundwater standard. Furthermore, the VOCs benzene and methylene chloride have been detected in MW-1 at concentrations statistically greater than the their respective groundwater standard. However, methylene chloride has only been detected once in MW-1 in the last 12 sampling events. This detection occurred in Spring 2002. The t-test statistical analysis for benzene in MW-2, MW-3, MW-4, and MW-6 and 1,4-dichlorobenzene in MW-2 is not valid since the sample sets contain non-detect values and the detection limit is greater than the groundwater standard.

3.0 CONCLUSIONS

The semiannual groundwater monitoring was conducted on October 27 and 28, November 2, and December 8, 2005 at the Jackson County MSWLF.

MW-5 was not sampled due to an obstruction in the well casing. This obstruction may be caused by a deformation of the casing. An Altamont engineer inspected the well on December 8, 2005 and confirmed that the well casing is bent. The cause is unknown.

Altamont proposes to sample PMW-01 in place of MW-5 for future sampling events. As illustrated on Figure 2, PMW-01 is located 120-feet south of MW-05 on the Jackson County maintenance building property. This well was installed by the previous property owner to monitor groundwater quality influences from the adjacent landfill property. PMW-1 will be incorporated into semi-annual monitoring during sampling conducted in April 2006. Altamont will continue to observe MW-5 for changes in its condition.

Metals

Analytical results indicate that ten metals were detected in monitoring wells and three metals were detected in surface water samples. Of the detected metals, barium was detected in MW-4 at a concentration greater than its respective 2L Standard. However, the statistical analyses showed that none of the detected metal concentrations in the monitoring wells were statistically greater than their respective groundwater standard. No other metals were detected in monitoring wells or surface water samples at concentrations greater than the 2L Standards.

Altamont will continue to monitor metals on a semi-annual basis at the Jackson County MSWLF. The next sampling event is scheduled for April 2006.

Volatile Organic Compounds

Analytical results indicate that seven VOCs were detected in monitoring wells and no VOCs were detected in surface water samples or domestic well samples. Of the detected VOCs, 1,4-dichlorobenzene

was detected in MW-01, MW-03, MW-04, and MW-06 at a concentration greater than its respective 2L Standard (**Note:** the 2L Standard for 1,4-dichlorobenzene decreased from 75 µg/L to 1.4 µg/L on April 1, 2005). Benzene was detected in MW-1 and methylene chloride was detected in MW-6 at concentrations greater than their respective 2L Standard.

Review of historical data since October 1996, indicates that the concentration of benzene has fluctuated from 2.5 µg/L to 14µg/L in MW-01. Methylene chloride concentrations in MW-06 have ranged from 5.7 µg/L to 21 µg/L since that well was installed in 2004. MW-01 and MW-06 are bedrock wells located in the northern portion of the landfill. In light of the indication that the bedrock aquifer is unconfined at the landfill, recharge to the bedrock is presumably from the overlying saprolite aquifer. The Tuckasegee River, which is located adjacent to the landfill to the southwest, represents a major drainage for this area, so it is likely that groundwater in the bedrock aquifer discharges to the river. Benzene and methylene chloride are volatile compounds that are easily attenuated; therefore it is probable that the concentrations of benzene and methylene chloride are significantly reduced by the time the groundwater discharges to the stream. Indeed, groundwater collected from the downgradient bedrock well, MW-2, did not contain concentrations of VOCs above the laboratory reporting limits. In addition, surface water samples did not contain concentrations of VOCs above the laboratory reporting limits.

Concentrations of other VOCs detected in groundwater samples were all well below their respective 2L Standard. Altamont will continue to monitor VOCs on a semi-annual basis at the Jackson County MSWLF. The next sampling event is scheduled for April 2006.

Appendix II Parameters

Cyanide and herbicides were not detected in the monitoring wells or surface water samples. Sulfide was detected in all monitoring wells sampled and both surface water samples. The 2L Standards do not contain an applicable standard for sulfide. Altamont will contain to monitor Appendix II parameters at the Jackson County MSWLF. The next Appendix II sampling event is scheduled for October 2006.

FIGURES

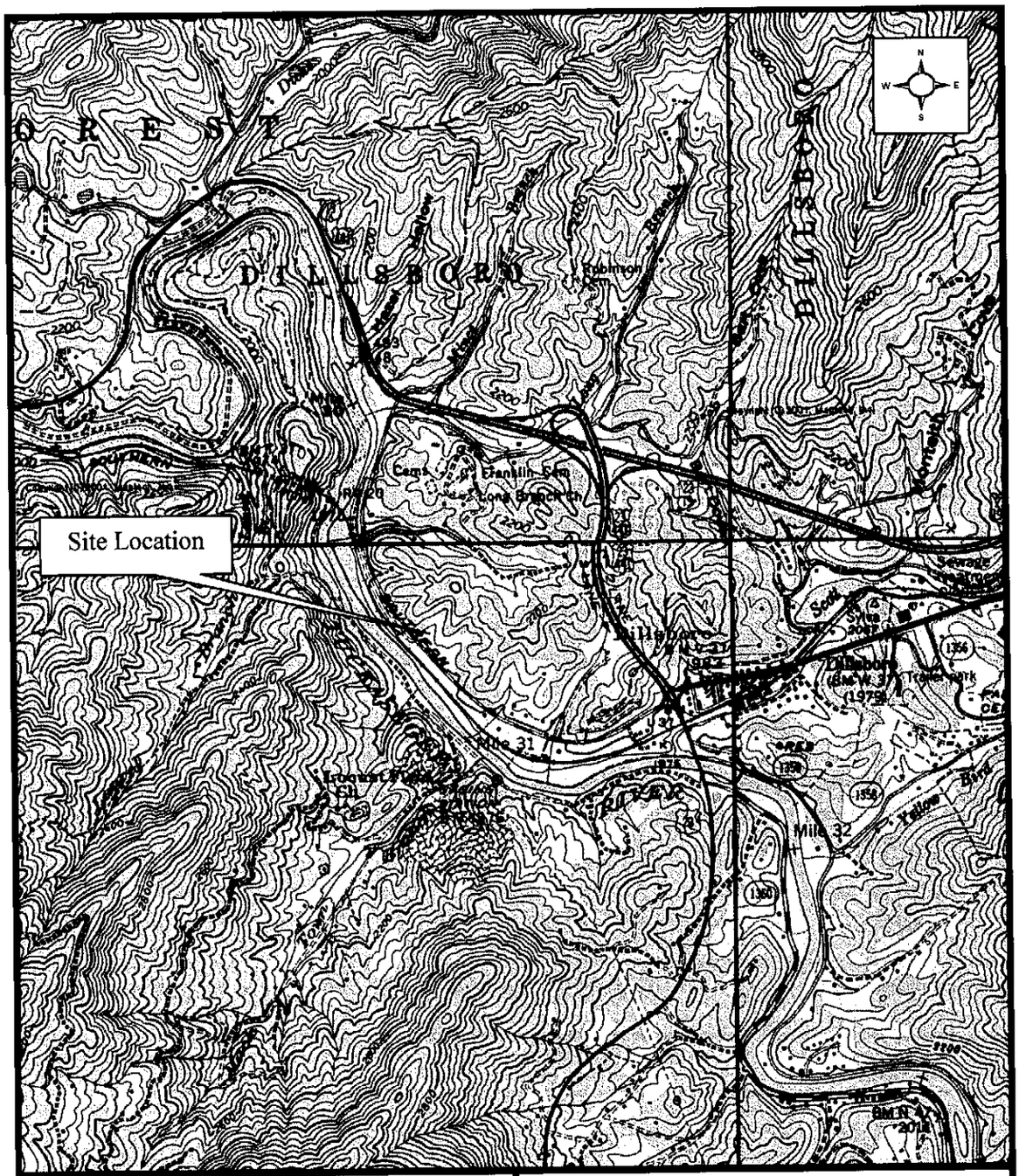

Figure 1
Site Location Map
January 16, 2005
USGS Greens Creek and Whittier Quadrangles

Scale 1 inch = 2000 feet

Jackson County MSW Landfill
Jackson County, North Carolina

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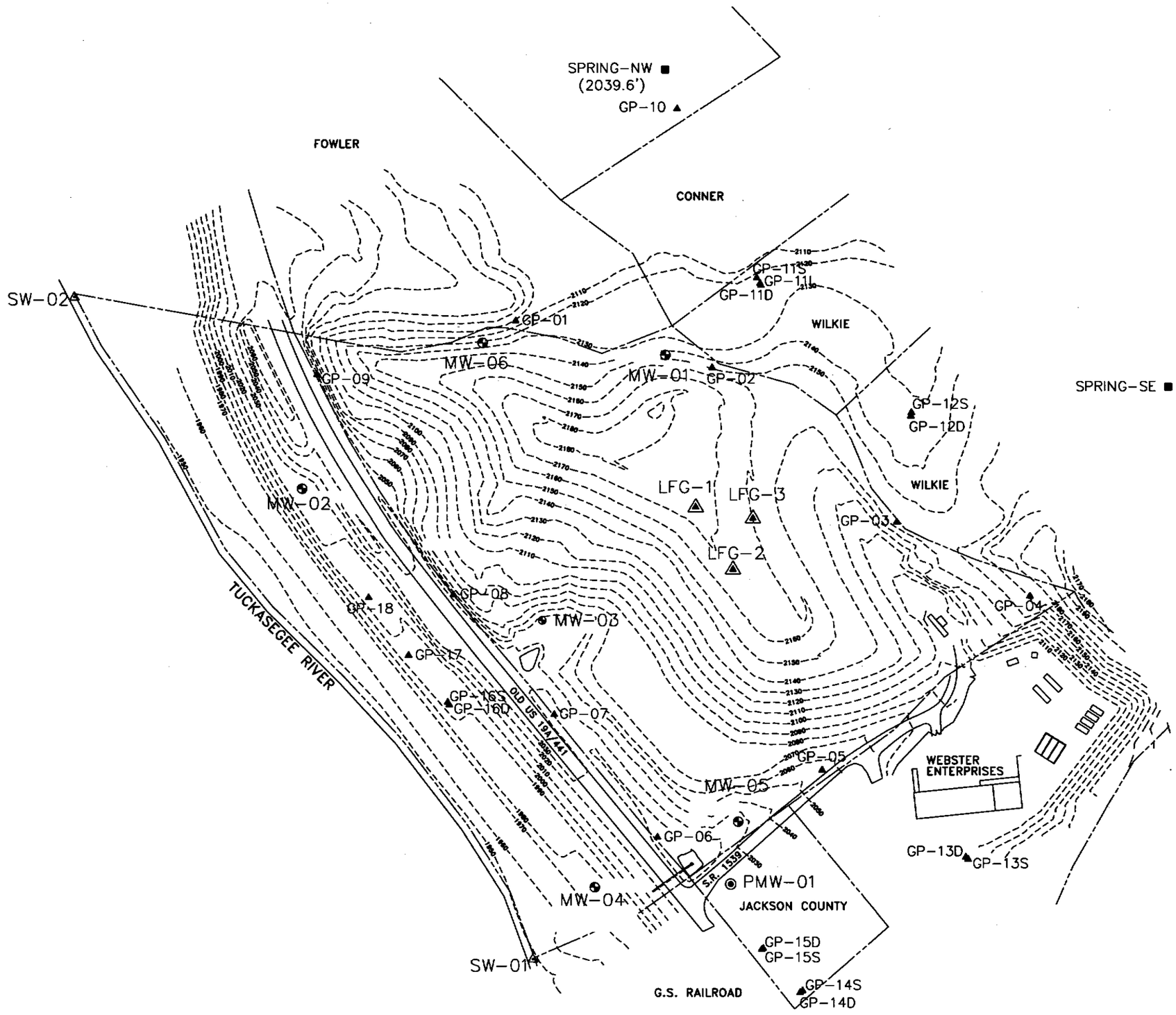
P:\Jackson County\Dillsboro GW\Figures\Miscellaneous\Figure 1 (10-2005).doc



NOTES:

1. TOPOGRAPHIC CONTOURS ARE FOR REPRESENTATIVE PURPOSES. CONTOURS OBTAINED FROM McGILL ASSOCIATES.

LEGEND:

- MW-1 MONITORING WELL LOCATION
- SW-1 SURFACE WATER SAMPLE LOCATION
- GP-1 GAS PROBE LOCATION
- PMV-1 PRIVATE MONITORING WELL LOCATION
- SPRING-NW SPRING LOCATION
- PROPERTY BOUNDARY

GRAPHIC SCALE (FEET)

200 0 100 200

REV.	DATE	DESCRIPTION	BY	CHK	APV
5	01-06-05	UPDATE	ZP	JSM	
4	06-18-04	UPDATE	ZP	JSM	
3	11-21-03	UPDATE	ZP	JSM	
2	05-13-02	UPDATE	SEX	JSM	
1	11-12-01	ORIGINAL	JMC	JPM	

DRAWN BY: JMC DATE: 11-12-01
PROJECT NUMBER: 2040.12
CADD DIRECTORY: P:\JACKSON\DILLSBORO GW\FIGURES
CADD FILENAME: FIGURE 2 LOCATION MAP

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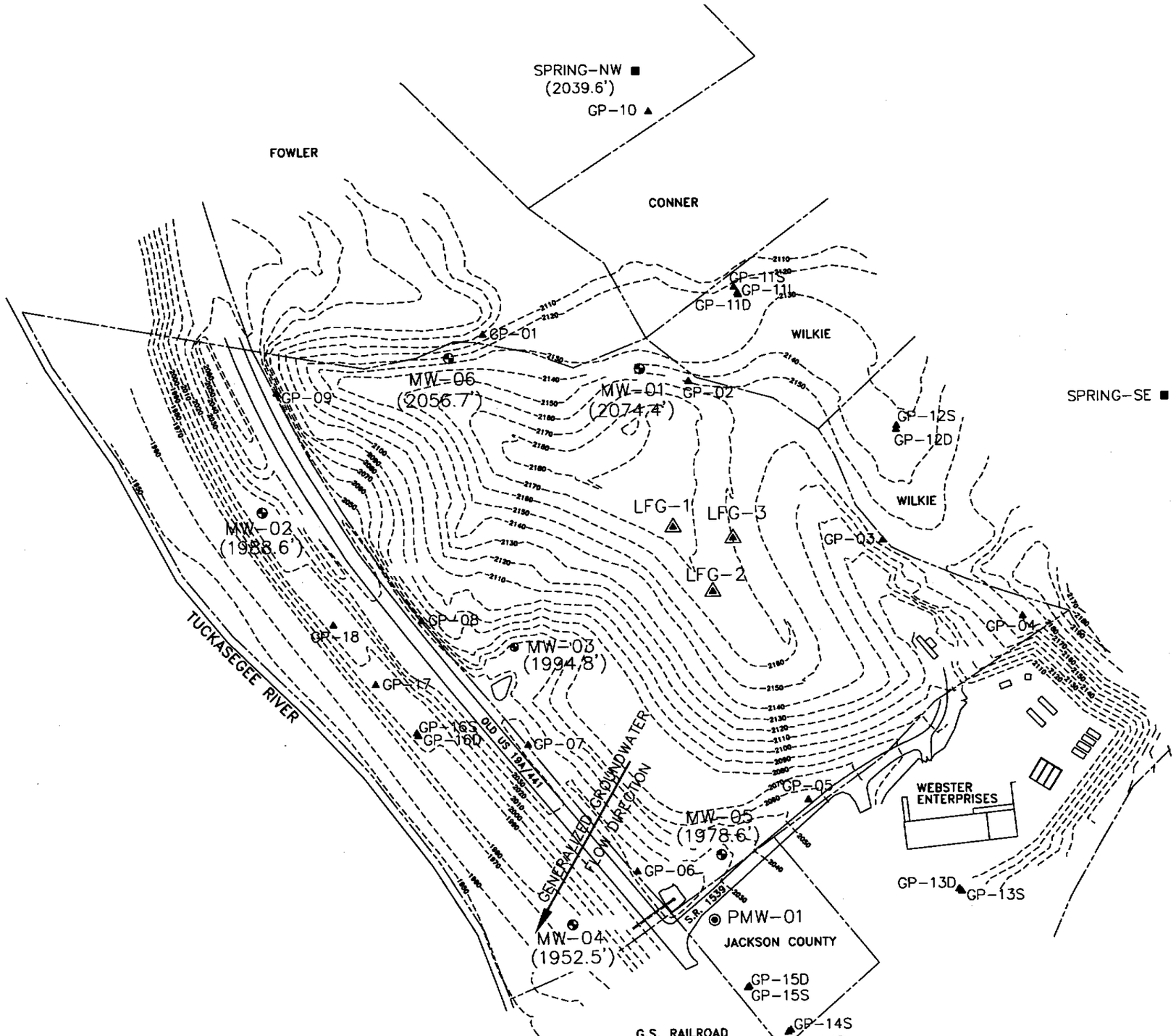
MONITORING WELL AND GAS PROBE LOCATION MAP

JACKSON COUNTY LANDFILL
JACKSON COUNTY, NORTH CAROLINA

FIGURE
2



NOTES:

1. TOPOGRAPHIC CONTOURS ARE FOR REPRESENTATIVE PURPOSES. CONTOURS OBTAINED FROM McGILL ASSOCIATES.
2. GROUNDWATER FLOW DIRECTION BASED ON GROUNDWATER ELEVATIONS MEASURED ON OCTOBER 18, 2004 IN MW-3, MW-4, AND MW-5 (WATER TABLE WELLS).

LEGEND:

- MW-1 MONITORING WELL LOCATION
- GP-1 GAS PROBE LOCATION
- PMV-1 PRIVATE MONITORING WELL LOCATION
- SPRING-NW SPRING LOCATION
- PROPERTY BOUNDARY

GRAPHIC SCALE (FEET)

200 0 100 200

REV.	DATE	DESCRIPTION	BY	CHK	APV
5	01-08-05	UPDATE	ZP	JSM	
4	06-18-04	UPDATE	ZP	RH	
3	11-21-03	UPDATE	ZP	JSM	
2	05-13-02	UPDATE	SCK	JSM	
1	11-12-01	ORIGINAL	JMC	JPM	

DRAWN BY: JMC DATE: 11-12-01
PROJECT NUMBER: 2040.15
CADD DIRECTORY: P:\JACKSON\DILLSBORO GW\FIGURES
CADD FILENAME: FIGURE 3 FLOW DIRECTION.dwg

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GENERALIZED GROUNDWATER FLOW DIRECTION–SAPROLITE AND PARTIALLY WEATHERED BEDROCK ZONE

JACKSON COUNTY LANDFILL
JACKSON COUNTY, NORTH CAROLINA

FIGURE
3

TABLES

Table 1
Water Quality Field Parameters
Jackson County MSWLF
Jackson County, North Carolina
October and December 2005

Well ID	Date	Sample Collection Time	Depth to Groundwater (feet)	pH (SU)	Temperature (°C)	Specific Conductivity (µS)
MW-01	10/27/2005	10:45	96.40	5.52	14.1	174.6
MW-02	10/27/2005	13:30	25.63	5.89	14.2	166.0
MW-03	10/27/2005	15:30	51.47	5.64	15.9	421
MW-04	10/27/2005	14:30	29.20	5.42	15.0	615
MW-05	10/27/2005	NS	NS	NS	NS	NS
MW-06	10/27/2005	11:30	80.99	5.12	14.9	79.4
SW-01	10/27/2005	14:45	NA	7.07	12.1	46.5
SW-02	10/27/2005	13:45	NA	7.15	12.1	44.3
DW-01	12/8/2005	11:30	NA	7.19	12.2	83.0
DW-02	12/8/2005	11:50	NA	6.16	12.3	29.2

Notes:

1. µS means micro-siemen.
2. Depth to Water measured from top of casing.
3. pH is measured in Standard Units.
4. NA means Not Applicable.
5. NS indicates the well was Not Sampled due to an obstruction in the casing.

Table 2
Summary of Analytical Results for Appendix II Metals and Sulfide
Jackson County MSWLF
Jackson County, North Carolina
October 27, 2005

Compound	MW-01	MW-02	MW-03	MW-04	MW-05	MW-06	SW-01	SW-02	NC 2L Standard
Antimony	<0.0050	<0.0050	<0.0050	<0.0050	NS	0.0063	<0.0050	<0.0050	NL
Barium	0.13	0.048	0.16	**6.1**	NS	0.066	0.022	0.014	2.0
Chromium	<0.0020	<0.0020	<0.0020	0.012	NS	<0.0020	<0.0020	<0.0020	0.05
Cobalt	0.12	<0.0050	0.11	0.0062	NS	0.014	<0.0050	<0.0050	NL
Copper	0.0034	<0.0020	<0.0020	0.011	NS	0.0057	<0.0020	<0.0020	1.0
Lead	<0.0050	<0.0050	<0.0050	0.0058	NS	<0.0050	<0.0050	<0.0050	0.015
Mercury	<0.00020	0.00026	<0.00020	0.00040	NS	0.00027	<0.00020	0.00025	0.00105
Nickel	0.011	0.0065	0.0093	0.0094	NS	<0.0050	<0.0050	<0.0050	0.1
Vanadium	<0.0050	<0.0050	<0.0050	0.014	NS	<0.0050	<0.0050	<0.0050	NL
Zinc	0.018	0.010	0.015	0.051	NS	0.024	<0.010	0.016	1.05
Sulfide	0.069	0.069	0.069	0.087	NS	0.069	0.0690	0.069	NL

Notes:

1. Concentrations are in milligrams per liter (mg/L).
2. < indicates compound not detected at or above the concentration shown (Pace detection limit).
3. NC 2L Standard comes from the "North Carolina Administrative Code, Title 15A: Department of Environment, Health, and Natural Resources, Subchapter 2L - Groundwater Classifications and Standards," April 1, 2005.
4. **Bold** indicates exceedance of 2L Standard in monitoring wells.
5. Only compounds detected above laboratory detection limits are shown. For a complete list of analyses and dection limits, refer to the analytical laboratory reports.
6. NL indicates the compound does not have an applicable 2L Standard.
7. NS indicates the well was Not Sampled due to an obstruction in the casing.

Table 3
Summary of Analytical Results for Appendix II VOCs
Jackson County MSWLF
Jackson County, North Carolina
October and December 2005

Compound	MW-01	MW-02	MW-03	MW-04	MW-05	MW-06	SW-01	SW-02	DW-01	DW-02	NC 2L Standard
1,1-Dichloroethane	9.5	<5.0	6.3	<5.0	NS	7.9	<5.0	<5.0	<0.5	<0.5	70
1,4-Dichlorobenzene	**13**	<5.0	**19**	**8.9**	NS	**11**	<5.0	<5.0	<0.5	<0.5	1.4
Benzene	**7.6**	<5.0	<5.0	<5.0	NS	<5.0	<5.0	<5.0	<0.5	<0.5	1
Chlorobenzene	<5.0	<5.0	9.7	7.0	NS	<5.0	<5.0	<5.0	<0.5	<0.5	50
cis-1,2-Dichloroethene	18	<5.0	7.3	14	NS	16	<5.0	<5.0	<0.5	<0.5	70
Methylene Chloride	<5.0	<5.0	<5.0	<5.0	NS	**9.5**	<5.0	<5.0	<0.5	<0.5	4.6
o-Xylene	33	<5.0	<5.0	<5.0	NS	9.6	<5.0	<5.0	<0.5	<0.5	NL
Xylenes (Total)	38	<5.0	<5.0	<5.0	NS	9.6	<5.0	<5.0	<0.5	<0.5	530

Notes:

1. Concentrations are in micrograms per liter (µg/L).
2. < indicates compound not detected at or above the concentration shown (Pace detection limit).
3. NC 2L Standard comes from the "North Carolina Administrative Code, Title 15A: Department of Environment, Health, and Natural Resources, Subchapter 2L - Groundwater Classifications and Standards," April 1, 2005.
4. **Bold** numbers indicate exceedance of 2L Standard in monitoring wells.
5. Only compounds detected above laboratory detection limits are shown. For a complete list of analyses and detection limits, refer to the analytical laboratory reports.
6. NL indicates the compound is Not Listed in the 2L Standard.
7. NS indicates the well was not sampled due to an obstruction in the casing.

Table 4
Well Construction Details and Corresponding Elevations
Jackson County MSWLF
Jackson County, North Carolina
October 27, 2005

Well ID	Ground Surface Elevation	TOC Elevation	Depth To Water (from TOC)	Groundwater Elevation	Depth to Bedrock	Bedrock Elevation	Screened Interval	Elevation of Screened Interval
MW-1	2169.40	2171.42	96.40	2075.02	83.0	2086.40	95 to 110	2074.4 to 2059.4
MW-2	2013.15	2015.38	25.63	1989.75	13.0	2000.15	45 to 60	1968.2 to 1953.2
MW-3	2044.16	2045.53	51.47	1994.06	57.0	1987.16	48.5 to 63.5	1995.7 to 1980.7
MW-4	1978.68	1980.77	29.20	1951.57	NA	NA	25 to 40	1951.7 to 1936.7
MW-5	2027.38	2028.97	NM	NA	NA	NA	50 to 60	1977.4 to 1967.4
MW-6	2136.58	2139.57	80.99	2058.58	47.6	2089.0	84.6 to 94.6	2052.0 to 2042.0

Notes:

1. All elevations are in feet, measured relative to mean sea level, and are based on a survey completed on April 9, 1999 by Davenport & Assoc., Inc.
2. TOC means Top of Casing
3. NA means Not Applicable
4. Depth to Bedrock and Screened Interval taken from boring logs completed on April 21, 22, and 23, 1992 by S&ME.
   Except MW-6 which is from an Altamont boring log completed 3/23/04.
5. NM indicates the well was Not Measured due to an obstruction in the casing.

APPENDICES

APPENDIX A

SAMPLING LOGS

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Well Sampling Log

FACILITY NAME: Jackson Co. Sampling Event	DATE: October ~~25~~ 27, 2005
LOCATION: Dillsboro, NC	SAMPLING TIME: 10:45
SAMPLING PERSONNEL: Evan Coward/Jon Hazinski	WEATHER: Overcast, 45°

WELL NUMBER: MW-01	WELL DEPTH IN FEET (WD): 113.38	DATE: 10/~~25~~27
WELL DIAMETER: 2"	WATER LEVEL IN FEET (WL): 96.40	DATE: 10/~~25~~27 TIME: 10:15
TYPE OF CASING: PVC	LENGTH OF WATER COLUMN : 16.98	FEET
MEASURING POINT: ✓	(WD) - (WL) = (LWC)	
FLUSH MOUNT / STICK UP	ONE CASING VOLUME: 2.88	GALLONS
COMMENTS:	(LWC) x (WCV)	
	THREE CASING VOLUMES: 8.66	GALLONS
	ACTUAL VOLUME PURGED:	GALLONS

WELL CASING VOLUMES (WCV)

2" = 0.17 Gal/Ft 3" = 0.38 Gal/Ft 4" = 0.66 Gal/Ft 6" = 1.5 Gal/Ft 8" = 2.6 Gal/Ft 12" = 5.8 Gal/Ft

PURGE METHOD: BAILER-TEFLON BAILER-DISP. DEDICATED PUMP WHALE PUMP GRUNDFOS OTHER:

SAMPLE METHOD: BAILER-TEFLON BAILER-DISP. DEDICATED PUMP WHALE PUMP GRUNDFOS OTHER:

READING	GALLONS PURGED	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	COLOR AND TURBIDITY	COMMENTS
1	initial	5.57	179.3	13.0	1.88	112	clear-low	
2	2.88	5.49	180.0	14.2	1.85	115	clear-low	
3	5.76	5.55	173.6	14.5	1.50	116	clear-low	
4	8.66	5.52	174.6	14.1	1.51	117		
5								
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	2	Sulfide, Metals
40 ml GLASS	4	VOCs 8260 Appendix IX
1 L GLASS	2	Herbicides
OTHER	1	Cyanide

PROTECTIVE CASING: ✓ PAD: ✓ LOCK: X VEGETATION: ✓ ACCESS: GOOD / POOR

Sampling Personnel Signature: [signature] **Date:** 10-27-05

Notes: µS = micro-Siemen
mV = millivolt
mg/L = milligrams per liter
C° = degrees Celcius

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Well Sampling Log

FACILITY NAME: Jackson Co. Sampling Event
DATE: ~~October 25, 2005~~ Oct 27, 2005
LOCATION: Dillsboro, NC
SAMPLING TIME: 1330
SAMPLING PERSONNEL: Evan Coward/Jon Hazinski
WEATHER:

WELL NUMBER: MW-02
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: TOC
FLUSH MOUNT / STICK-UP
COMMENTS:

WELL DEPTH IN FEET (WD): 62.54 DATE: ~~10/25~~ 10/27
WATER LEVEL IN FEET (WL): 25.63 DATE: ~~10/25~~ TIME: 1230
LENGTH OF WATER COLUMN: 36.91 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 6 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 18 GALLONS
ACTUAL VOLUME PURGED: 18 GALLONS

WELL CASING VOLUMES (WCV)
2" = 0.17 Gal/Ft 3" = 0.38 Gal/Ft 4" = 0.66 Gal/Ft 6" = 1.5 Gal/Ft 8" = 2.6 Gal/Ft 12" = 5.8 Gal/Ft

PURGE METHOD: BAILER-TEFLON BAILER-DISP. DEDICATED PUMP WHALE PUMP GRUNDFOS OTHER:
SAMPLE METHOD: BAILER-TEFLON BAILER-DISP. DEDICATED PUMP WHALE PUMP GRUNDFOS OTHER:

READING	GALLONS PURGED	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	COLOR AND TURBIDITY	COMMENTS
1	Initial	5.95	171.8	15.9	5.42	194	low slight	Biege
2	6	5.89	173.8	14.8	6.13	136	"	
3	12	5.88	165.6	14.3	3.77	204	"	
4	18	5.89	166.0	14.2	3.88	196		
5								
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	2	Sulfides, metals
40 ml GLASS	4	VOCs 8260
1 L GLASS	2	Herbicides
OTHER	1	Cyanide

PROTECTIVE CASING: ✓ PAD: ✓ LOCK: ✓ VEGETATION: ✓ ACCESS: GOOD / POOR

Sampling Personnel Signature: [signature] **Date:** 10/27/05

Notes: µS = micro-Siemen
mV = millivolt
mg/L = milligrams per liter
C° = degrees Celcius

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Well Sampling Log

FACILITY NAME: Jackson Co. Sampling Event	DATE: October ~~26~~ 27, 2005
LOCATION: Dillsboro, NC	SAMPLING TIME: 15:30
SAMPLING PERSONNEL: Evan Coward/Jon Hazinski	WEATHER: Sunny 65°

WELL NUMBER: MW-03	WELL DEPTH IN FEET (WD): 62.50	DATE: 10/~~26~~ 27
WELL DIAMETER: 2"	WATER LEVEL IN FEET (WL): 51.47	DATE: 10/~~26~~ 27 TIME:
TYPE OF CASING: PVC	LENGTH OF WATER COLUMN : 11.03	FEET
MEASURING POINT: ✓	(WD) - (WL) = (LWC)	
FLUSH MOUNT / STICK-UP	ONE CASING VOLUME: 1.87	GALLONS
COMMENTS:	(LWC) x (WCV)	
	THREE CASING VOLUMES: 5.6	GALLONS
	ACTUAL VOLUME PURGED:	GALLONS

WELL CASING VOLUMES (WCV)
2" = 0.17 Gal/Ft 3" = 0.38 Gal/Ft 4" = 0.66 Gal/Ft 6" = 1.5 Gal/Ft 8" = 2.6 Gal/Ft 12" = 5.8 Gal/Ft

PURGE METHOD: BAILER-TEFLON BAILER-DISP. DEDICATED PUMP WHALE PUMP GRUNDFOS OTHER:
SAMPLE METHOD: BAILER-TEFLON BAILER-DISP. DEDICATED PUMP WHALE PUMP GRUNDFOS OTHER:

READING	GALLONS PURGED	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	COLOR AND TURBIDITY	COMMENTS
1	1.87	5.64	417	16.1	2.15	208	clear-low	
2	1.87	5.67	418	15.9	2.26	185	" "	
3	3.74	5.65	427	15.9	2.18	174	" "	
4	5.60	5.64	421	15.9	2.16	168	" "	Sample
5								
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	2	Sulfides, Metals
40 ml GLASS	4	VOC's 8260, Appendix IX
1 L GLASS	2	Herbicides
OTHER	1	Cyanide

PROTECTIVE CASING: ✓ PAD: ✓ LOCK: X VEGETATION: X ACCESS: GOOD / POOR

Sampling Personnel Signature: [signature] **Date:** 10-27-05

Notes: µS = micro-Siemen
mV = millivolt
mg/L = milligrams per liter
C° = degrees Celcius

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Well Sampling Log

FACILITY NAME: Jackson Co. Sampling Event	DATE: October ~~26~~ 27, 2005
LOCATION: Dillsboro, NC	SAMPLING TIME: 14:30
SAMPLING PERSONNEL: Evan Coward/Jon Hazinski	WEATHER:

WELL NUMBER: MW-04
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: ✓
FLUSH MOUNT / STICK-UP
COMMENTS:

WELL DEPTH IN FEET (WD): 42.48 DATE: 10/~~26~~27
WATER LEVEL IN FEET (WL): 29.20 DATE: 10/~~26~~27 TIME: 14:00
LENGTH OF WATER COLUMN: 13.28 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 2.25 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 6.77 GALLONS
ACTUAL VOLUME PURGED: GALLONS

WELL CASING VOLUMES (WCV)
2" = 0.17 Gal/Ft 3" = 0.38 Gal/Ft 4" = 0.66 Gal/Ft 6" = 1.5 Gal/Ft 8" = 2.6 Gal/Ft 12" = 5.8 Gal/Ft

PURGE METHOD: BAILER-TEFLON BAILER-DISP. DEDICATED PUMP WHALE PUMP GRUNDFOS OTHER:
SAMPLE METHOD: BAILER-TEFLON BAILER-DISP. DEDICATED PUMP WHALE PUMP GRUNDFOS OTHER:

READING	GALLONS PURGED	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	COLOR AND TURBIDITY	COMMENTS
1	initial	5.36	615	15.0	1.46	278	Clear-low	
2	2.25	5.42	639	15.3	2.03	330	Clear-low	
3	4.50	5.40	628	15.1	2.23	345	clear-low	
4	6.75	5.42	615	15.0	2.50	360	clear-low	
5								
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	2	Sulfide, Metals
40 ml GLASS	4	VOC's Appendix II, 8260
1 L GLASS	2	Herbicides
OTHER	1	Cyanide

PROTECTIVE CASING: ✓ PAD: ✓ LOCK: X VEGETATION: ✓ ACCESS: GOOD / POOR

Sampling Personnel Signature: [signature] **Date:** 10-27-05

Notes: µS = micro-Siemen
mV = millivolt
mg/L = milligrams per liter
C° = degrees Celcius

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Well Sampling Log

FACILITY NAME: Jackson Co. Sampling Event
DATE: October ~~28~~ 27, 2005
LOCATION: Dillsboro, NC
SAMPLING TIME: 11:30
SAMPLING PERSONNEL: Evan Coward/Jon Hazinski
WEATHER: Sunny, 55°

WELL NUMBER: MW-06
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: ✓
FLUSH MOUNT / STICK-UP
COMMENTS:

WELL DEPTH IN FEET (WD): 96.96 DATE: 10/~~28~~ 27
WATER LEVEL IN FEET (WL): 80.99 DATE: 10/~~28~~ 27 TIME:
LENGTH OF WATER COLUMN : 15.97 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 2.71 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 8.14 GALLONS
ACTUAL VOLUME PURGED: GALLONS

WELL CASING VOLUMES (WCV)
2" = 0.17 Gal/Ft 3" = 0.38 Gal/Ft 4" = 0.66 Gal/Ft 6" = 1.5 Gal/Ft 8" = 2.6 Gal/Ft 12" = 5.8 Gal/Ft

PURGE METHOD: BAILER-TEFLON BAILER-DISP. DEDICATED PUMP WHALE PUMP GRUNDFOS OTHER:
SAMPLE METHOD: BAILER-TEFLON BAILER-DISP. DEDICATED PUMP WHALE PUMP GRUNDFOS OTHER:

READING	GALLONS PURGED	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	COLOR AND TURBIDITY	COMMENTS
1	initial	5.17	79.9	14.2	2.33	170	clear-low	
2	2.71	5.17	79.2	14.7	3.00	186	clear-low	
3	5.42	5.15	80.4	14.7	2.55	196	clear-low	
4	8.14	5.12	79.4	14.9	2.66	206	clear-low	Sample
5								
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	2	Sulfides, Metals
40 ml GLASS	4	VOC's 8260
1 L GLASS	2	Herbacides
OTHER	1	Cyanide

PROTECTIVE CASING: ✓ PAD: ✓ LOCK: X VEGETATION: ✓ ACCESS: GOOD / POOR

Sampling Personnel Signature: [signature] **Date:** 10-27-05

Notes: µS = micro-Siemen
mV = millivolt
mg/L = milligrams per liter
C° = degrees Celcius

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Well Sampling Log 27

FACILITY NAME: Jackson Co. Sampling Event	DATE: October ~~28~~, 2005
LOCATION: Dillsboro, NC	SAMPLING TIME: 1445
SAMPLING PERSONNEL: Evan Coward/Jon Hazinski	WEATHER: Sunny, 60°

WELL NUMBER: SW-01	WELL DEPTH IN FEET (WD):	DATE: 10/~~25~~27
WELL DIAMETER:	WATER LEVEL IN FEET (WL):	DATE: 10/~~25~~27 TIME:
TYPE OF CASING:	LENGTH OF WATER COLUMN :	FEET
MEASURING POINT:	(WD) - (WL) = (LWC)	
FLUSH MOUNT / STICK-UP	ONE CASING VOLUME:	GALLONS
COMMENTS:	(LWC) x (WCV)	
	THREE CASING VOLUMES:	GALLONS
	ACTUAL VOLUME PURGED:	GALLONS

WELL CASING VOLUMES (WCV)
2" = 0.17 Gal/Ft 3" = 0.38 Gal/Ft 4" = 0.66 Gal/Ft 6" = 1.5 Gal/Ft 8" = 2.6 Gal/Ft 12" = 5.8 Gal/Ft

PURGE METHOD: BAILER-TEFLON BAILER-DISP. DEDICATED PUMP WHALE PUMP GRUNDFOS OTHER:
SAMPLE METHOD: BAILER-TEFLON BAILER-DISP. DEDICATED PUMP WHALE PUMP GRUNDFOS OTHER:

READING	GALLONS PURGED	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	COLOR AND TURBIDITY	COMMENTS
1	0	7.07	46.5	12.1	10.31	267		Sample
2								
3								
4								
5								
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	2	Sulfides, Metals
40 ml GLASS	4	VOC's 8260 Appendix II
1 L GLASS	2	Herbicides
OTHER	1	Cyanide

PROTECTIVE CASING: ✓ PAD: ✓ LOCK: ✓ VEGETATION: ✓ ACCESS: (GOOD) / POOR

Sampling Personnel Signature: [signature] **Date:** 10-27-05

Notes: µS = micro-Siemen
mV = millivolt
mg/L = milligrams per liter
C° = degrees Celcius

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Well Sampling Log

27 68

FACILITY NAME: Jackson Co. Sampling Event	DATE: October ~~25~~, 2005
LOCATION: Dillsboro, NC	SAMPLING TIME: 1345
SAMPLING PERSONNEL: Evan Coward/Jon Hazinski	WEATHER:

WELL NUMBER: SW-02	WELL DEPTH IN FEET (WD):	DATE: 10/25
WELL DIAMETER:	WATER LEVEL IN FEET (WL):	DATE: 10/25 TIME:
TYPE OF CASING:	LENGTH OF WATER COLUMN :	FEET
MEASURING POINT:	(WD) - (WL) = (LWC)	
FLUSH MOUNT / STICK-UP	ONE CASING VOLUME:	GALLONS
COMMENTS:	(LWC) x (WCV)	
	THREE CASING VOLUMES:	GALLONS
	ACTUAL VOLUME PURGED:	GALLONS

WELL CASING VOLUMES (WCV)
2" = 0.17 Gal/Ft 3" = 0.38 Gal/Ft 4" = 0.66 Gal/Ft 6" = 1.5 Gal/Ft 8" = 2.6 Gal/Ft 12" = 5.8 Gal/Ft

PURGE METHOD: BAILER-TEFLON BAILER-DISP. DEDICATED PUMP WHALE PUMP GRUNDFOS OTHER:
SAMPLE METHOD: BAILER-TEFLON BAILER-DISP. DEDICATED PUMP WHALE PUMP GRUNDFOS OTHER:

READING	GALLONS PURGED	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	COLOR AND TURBIDITY	COMMENTS
1	Sample	7.15	44.3	12.1	13.63	159		
2								
3								
4								
5								
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	2	Sulfide, metals
40 ml GLASS	4	8260 VOCs
1 L GLASS	2	Herbicides
OTHER	1	cyanide

PROTECTIVE CASING:_____ PAD:_____ LOCK:_____ VEGETATION:_____ ACCESS: GOOD / POOR

Sampling Personnel Signature: [signature] **Date:** 10-27-05

Notes: µS = micro-Siemen
mV = millivolt
mg/L = milligrams per liter
C° = degrees Celcius

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Well Sampling Log

FACILITY NAME: Sackson Co. GW
DATE: 12/8/05
LOCATION: Sackson County, NC
SAMPLING TIME: 1130
SAMPLING PERSONNEL: ZC/JM
WEATHER: cloudy - 40s

WELL NUMBER: OW-1 (Wilkie)
WELL DIAMETER: N/A
TYPE OF CASING:
MEASURING POINT:
FLUSH MOUNT / STICK-UP
COMMENTS: spigot on side of house

WELL DEPTH IN FEET (WD): N/A — DATE:
WATER LEVEL IN FEET (WL): — DATE: TIME:
LENGTH OF WATER COLUMN : — FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: — GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: — GALLONS
ACTUAL VOLUME PURGED: ~~30~~ 22 GALLONS

WELL CASING VOLUMES (WCV)
2" = 0.17 Gal/Ft 3" = 0.38 Gal/Ft 4" = 0.66 Gal/Ft 6" = 1.5 Gal/Ft 8" = 2.6 Gal/Ft 12" = 5.8 Gal/Ft

PURGE METHOD: BAILER-TEFLON BAILER-DISP. DEDICATED PUMP WHALE PUMP GRUNDFOS OTHER:
SAMPLE METHOD: BAILER-TEFLON BAILER-DISP. DEDICATED PUMP WHALE PUMP GRUNDFOS OTHER:

READING	GALLONS PURGED	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	COLOR AND TURBIDITY	COMMENTS
1	0	7.32	88.1	7.8	6.20	DNM	clear	
2	5	7.08	97.8	11.9	5.43	DNM	clear	
3	10	7.16	89.7	12.1	4.70	DNM	clear	
4	20	7.19	83.0	12.2	7.70	DNM	clear	
5								
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC		
40 ml GLASS	3	VOC 524.2
1 L GLASS		
OTHER		

PROTECTIVE CASING: N/A PAD: N/A LOCK: N/A VEGETATION: N/A ACCESS: GOOD / POOR

Sampling Personnel Signature: [signature] **Date:** 12/8/05

Notes: µS = micro-Siemen
mV = millivolt
mg/L = milligrams per liter
C° = degrees Celcius

Did Not measure - DNM
sample @ purging 22 gallons - temp, pH, spec cond. stabilized after

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Well Sampling Log

FACILITY NAME: Jackson LF
LOCATION: Jackson Co.
SAMPLING PERSONNEL: ZP/SM

DATE: 12/8/05
SAMPLING TIME: 1150
WEATHER: cloudy 40°

WELL NUMBER: DW-2 Bulla
WELL DIAMETER: N/A
TYPE OF CASING:
MEASURING POINT:
FLUSH MOUNT / STICK-UP
COMMENTS: Kitchen sink

WELL DEPTH IN FEET (WD): N/A DATE:
WATER LEVEL IN FEET (WL): / DATE: TIME:
LENGTH OF WATER COLUMN : FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: GALLONS
ACTUAL VOLUME PURGED: 19 GALLONS

WELL CASING VOLUMES (WCV)
2" = 0.17 Gal/Ft 3" = 0.38 Gal/Ft 4" = 0.66 Gal/Ft 6" = 1.5 Gal/Ft 8" = 2.6 Gal/Ft 12" = 5.8 Gal/Ft

PURGE METHOD: BAILER-TEFLON BAILER-DISP. DEDICATED PUMP WHALE PUMP GRUNDFOS OTHER:
SAMPLE METHOD: BAILER-TEFLON BAILER-DISP. DEDICATED PUMP WHALE PUMP GRUNDFOS OTHER:

READING	GALLONS PURGED	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	COLOR AND TURBIDITY	COMMENTS
1	0	6.70	49.0	16.8	5.45	DNM	clear	
2	5	6.34	30.2	11.9	8.60	DNM	clear	
3	10	6.32	29.8	12.1	8.20	DNM	clear	
4	15	6.17	29.9	12.4	8.05	DNM	clear	
5	19	6.16	29.2	12.3	7.95	DNM	clear	
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC		
40 ml GLASS	3	VOCs 524.2
1 L GLASS		
OTHER		

PROTECTIVE CASING: N/A PAD: N/A LOCK: N/A VEGETATION: NA ACCESS: GOOD / POOR

Sampling Personnel Signature: Zam Prin **Date:** 12/8/05

Notes: µS = micro-Siemen
mV = millivolt
mg/L = milligrams per liter
C° = degrees Celcius

Did Not Measure - DNM
sample after purging 19 gallons.

APPENDIX B

LABORATORY ANALYTICAL REPORTS

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

Pace Analytical Services, Inc.
2225 Riverside Drive
Asheville, NC 28804
Phone: 828.254.7176
Fax: 828.252.4618

December 20, 2005

Mr. Zan Price
Altamont Environmental
50 College Street
Asheville, NC 28801

RE: Lab Project Number: 92109096
Client Project ID: Jackson Co. LF 2040.12

Dear Mr. Price:

Enclosed are the analytical results for sample(s) received by the laboratory on December 8, 2005. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals Analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Charlotte laboratory unless otherwise footnoted.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Lorri Patton
lorri.patton@pacelabs.com
Project Manager

Enclosures

Asheville Certification IDs

NC Wastewater	40
NC Drinking Water	37712
SC	99030
FL NELAP	E87648

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Charlotte Certification IDs

NC Wastewater	12
NC Drinking Water	37706
SC	99006
FL NELAP	E87627

Research & Analytical Laboratories, Inc.

Analytical/Process Consultations

Volatile Organic Analysis from Selected Sampling Locations Identified as 92109096
(A Pace Analytical Services, Inc. Project #92109096, collected 08 December 2005)

I. Volatile Organics EPA Method 524.2 Parameter	Quantitation Limit (mg/L)	926424607 (mg/L)	926424615 (mg/L)
EDB	0.0005	BQL	BQL
1,1-Dichloroethane	0.0005	BQL	BQL
2,2-Dichloropropane	0.0005	BQL	BQL
Chloroform	0.0005	BQL	BQL
1,1,1-Trichloroethane	0.0005	BQL	BQL
1,1-Dichloropropene	0.0005	BQL	BQL
Carbon Tetrachloride	0.0005	BQL	BQL
Benzene	0.0005	BQL	BQL
1,2-Dichloroethane	0.0005	BQL	BQL
Trichloroethene	0.0005	BQL	BQL
1,2-Dichloropropane	0.0005	BQL	BQL
Dibromomethane	0.0005	BQL	BQL
Toluene	0.0005	BQL	BQL
1,1,2-Trichloroethane	0.0005	BQL	BQL
1,3-Dichloropropane	0.0005	BQL	BQL
Tetrachloroethene	0.0005	BQL	BQL
1,1,1,2-Tetrachloroethane	0.0005	BQL	BQL
1,1,2,2-Tetrachloroethane	0.0005	BQL	BQL
1,2,3-Trichloropropane	0.0005	BQL	BQL
Hexachlorobutadiene	0.0005	BQL	BQL
Bromobenzene	0.0005	BQL	BQL
Ethylbenzene	0.0005	BQL	BQL
Styrene	0.0005	BQL	BQL
Bromoform	0.0005	BQL	BQL
p-Isopropyltoluene	0.0005	BQL	BQL
N-Butylbenzene	0.0005	BQL	BQL
Naphthalene	0.0005	BQL	BQL
M-Xylene	0.0005	BQL	BQL
1,3,5-Trimethylbenzene	0.0005	BQL	BQL
1,2,4-Trimethylbenzene	0.0005	BQL	BQL
1,2,4-Trichlorobenzene	0.0005	BQL	BQL
1,2,3-Trichlorobenzene	0.0005	BQL	BQL
Chlorobenzene	0.0005	BQL	BQL
2-Chlorotoluene	0.0005	BQL	BQL
4-Chlorotoluene	0.0005	BQL	BQL
Tert-Butylbenzene	0.0005	BQL	BQL
Sec-Butylbenzene	0.0005	BQL	BQL
1,4-Dichlorobenzene	0.0005	BQL	BQL
1,2-Dichlorobenzene	0.0005	BQL	BQL
Total Xylenes	0.0005	BQL	BQL
I-Propylbenzene	0.0005	BQL	BQL
N-Propylbenzene	0.0005	BQL	BQL
1,3-Dichlorobenzene	0.0005	BQL	BQL
Dibromochloromethane	0.0005	BQL	BQL
Dichlorodifluoromethane	0.0005	BQL	BQL
Chloromethane	0.0005	BQL	BQL
Vinyl Chloride	0.0005	BQL	BQL
Bromomethane	0.0005	BQL	BQL
Chloroethane	0.0005	BQL	BQL
Trichlorofluoromethane	0.0005	BQL	BQL
1,1-Dichloroethene	0.0005	BQL	BQL
Methylene Chloride	0.0005	BQL	BQL
Trans-1,2-Dichloroethene	0.0005	BQL	BQL
Cis-1,2-Dichloroethene	0.0005	BQL	BQL
Bromodichloromethane	0.0005	BQL	BQL
Bromochloromethane	0.0005	BQL	BQL
Cis-1,3-Dichloropropene	0.0005	BQL	BQL
Trans-1,3-Dichloropropene	0.0005	BQL	BQL
Dilution Factor		1	1
Sample Number		549846	549847
Sample Date		12/08/05	12/08/05
Sample Time		1130	1130
Analyzed Date		12/12/05	12/12/05
Analyzed Time		2118	2146

(mg/L) = milligrams per Liter = parts per million (ppm)

BQL = Below Quantitation Limits

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The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

930246

Section A Required Client Information:

Company	Altamont Environmental
Address	50 College Street
	Asheville, NC 28806
Email To:	jmcfeldatt@altamontenvironmental.com
Phone	281-3350
Fax	281-3350
Requested Due Date/TAT:	12/22/05 - Standard

Section B Required Project Information:

Report To:	Jim McFeldatt
Copy To:	Zan Price
Purchase Order No.:	
Project Name:	Jackson Co LF
Project Number:	2040.12

Section C Invoice Information:

Attention:	Jan Lugaric
Company Name:	Same
Address:	
Pace Quote Reference:	
Pace Project Manager:	LJP
Pace Profile #:	42X34

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ Other_____

SITE LOCATION ☐GA ☐IL ☐IN ☐MI ☐MN ☒NC ☐OH ☐SC ☐WI ☐OTHER _____

Section D Required Client Information

SAMPLE ID

One Character per box. (A-Z, 0-9 / .-) Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: VOC 524.2	Residual Chlorine (Y/N)	Pace Project Number / Lab I.D
1	DW-1	DW	G			12/8/05	1130		3						X			Y			92642467
2	DW-2	DW	G			12/8/05	1150		3						X			Y			92642415
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Preservatives

109096 Pace Project Number

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Zan Price, Altamont	12/8/05	1510	[signature]	12/8/05	1510

SAMPLE CONDITION

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
3.5	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY)

SEE REVERSE SIDE FOR INSTRUCTIONS

ALLQ020rev.3,31 Mar05

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Fax: 828.252.4618

November 10, 2005

RECEIVED
NOV 14 2005

Mr. Jim McElduff
Altamont Environmental
50 College Street
Asheville, NC 28801

RE: Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

Dear Mr. McElduff:

Enclosed are the analytical results for sample(s) received by the laboratory on October 28, 2005. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals Analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Charlotte laboratory unless otherwise footnoted.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Lorri Patton
lorri.patton@pacelabs.com
Project Manager

Enclosures

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2225 Riverside Drive
Asheville, NC 28804
Phone: 828.254.7176
Fax: 828.252.4618

Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

Lab Sample No: 926276361 | Project Sample Number: 92106344-001 | Date Collected: 10/28/05 10:10
Client Sample ID: DW-01 | Matrix: Water | Date Received: 10/28/05 11:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010							
Antimony	ND	mg/l	0.0050	11/02/05 17:37	SAJ	7440-36-0		
Arsenic	ND	mg/l	0.0050	11/02/05 17:37	SAJ	7440-38-2		
Barium	0.0069	mg/l	0.0050	11/02/05 17:37	SAJ	7440-39-3		
Beryllium	ND	mg/l	0.0010	11/02/05 17:37	SAJ	7440-41-7		
Cadmium	ND	mg/l	0.0010	11/02/05 17:37	SAJ	7440-43-9		
Chromium	ND	mg/l	0.0020	11/02/05 17:37	SAJ	7440-47-3		
Cobalt	ND	mg/l	0.0050	11/02/05 17:37	SAJ	7440-48-4		
Copper	0.21	mg/l	0.0020	11/02/05 17:37	SAJ	7440-50-8		
Lead	ND	mg/l	0.0050	11/02/05 17:37	SAJ	7439-92-1		
Nickel	ND	mg/l	0.0050	11/02/05 17:37	SAJ	7440-02-0		
Selenium	ND	mg/l	0.0050	11/02/05 17:37	SAJ	7782-49-2		
Silver	ND	mg/l	0.0020	11/02/05 17:37	SAJ	7440-22-4		
Tin	ND	mg/l	0.0050	11/02/05 17:37	SAJ	7440-31-5		
Vanadium	ND	mg/l	0.0050	11/02/05 17:37	SAJ	7440-62-2		
Zinc	0.012	mg/l	0.010	11/02/05 17:37	SAJ	7440-66-6		
Date Digested	10/31/05 15:20			10/31/05 15:20				
Mercury, CVAAS, in Water	Method: EPA 7470							
Mercury	ND	mg/l	0.00020	11/01/05 01:11	ALV	7439-97-6		
Wet Chemistry								
Cyanide, Total, Water	Method: EPA 335.2							
Cyanide	ND	mg/l	0.0050	11/01/05 15:25	CD1	57-12-5		
Sulfide, Total	Method: EPA 376.2							
Sulfide	0.069	mg/l	0.050	11/01/05 20:00	CD1			
GC Semivolatiles								
Chlorinated Acid Herbicides	Prep/Method: EPA 3510 / EPA 8151							
2,4-D	ND	ug/l	2.0	11/09/05 08:36	JEM	94-75-7		
Dinoseb	ND	ug/l	1.0	11/09/05 08:36	JEM	88-85-7		
2,4,5-T	ND	ug/l	2.0	11/09/05 08:36	JEM	93-76-5		
2,4,5-TP (Silvex)	ND	ug/l	2.0	11/09/05 08:36	JEM	93-72-1		
2,4-DCPA (S)	78	%		11/09/05 08:36	JEM	19719-28-9		
Date Extracted	11/03/05			11/03/05				

Asheville Certification IDs

NC Wastewater	40
NC Drinking Water	37712
SC	99030
FL NELAP	E87648

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NC Wastewater	12
NC Drinking Water	37706
SC	99006
FL NELAP	E87627

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Asheville, NC 28804
Phone: 828.254.7176
Fax: 828.252.4618

Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

Lab Sample No: 926276361 | Project Sample Number: 92106344-001 | Date Collected: 10/28/05 10:10
Client Sample ID: DW-01 | Matrix: Water | Date Received: 10/28/05 11:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260							
Acetone	ND	ug/l	25.	11/02/05 08:15	DLK	67-64-1		
Acetonitrile	ND	ug/l	50.	11/02/05 08:15	DLK	75-05-8		
Acrolein	ND	ug/l	25.	11/02/05 08:15	DLK	107-02-8		
Acrylonitrile	ND	ug/l	25.	11/02/05 08:15	DLK	107-13-1		
Allyl chloride	ND	ug/l	50.	11/02/05 08:15	DLK	107-05-1		
Benzene	ND	ug/l	5.0	11/02/05 08:15	DLK	71-43-2		
Bromochloromethane	ND	ug/l	5.0	11/02/05 08:15	DLK	74-97-5		
Bromodichloromethane	ND	ug/l	5.0	11/02/05 08:15	DLK	75-27-4		
Bromoform	ND	ug/l	5.0	11/02/05 08:15	DLK	75-25-2		
Bromomethane	ND	ug/l	5.0	11/02/05 08:15	DLK	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.	11/02/05 08:15	DLK	78-93-3		
n-Butylbenzene	ND	ug/l	5.0	11/02/05 08:15	DLK	104-51-8		
Carbon disulfide	ND	ug/l	10.	11/02/05 08:15	DLK	75-15-0		
Carbon tetrachloride	ND	ug/l	5.0	11/02/05 08:15	DLK	56-23-5		
Chlorobenzene	ND	ug/l	5.0	11/02/05 08:15	DLK	108-90-7		
Chloroethane	ND	ug/l	10.	11/02/05 08:15	DLK	75-00-3		
Chloroform	ND	ug/l	5.0	11/02/05 08:15	DLK	67-66-3		
Chloromethane	ND	ug/l	5.0	11/02/05 08:15	DLK	74-87-3		
Chloroprene	ND	ug/l	5.0	11/02/05 08:15	DLK	126-99-8		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	11/02/05 08:15	DLK	96-12-8		
Dibromochloromethane	ND	ug/l	5.0	11/02/05 08:15	DLK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	11/02/05 08:15	DLK	106-93-4		
Dibromomethane	ND	ug/l	5.0	11/02/05 08:15	DLK	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	5.0	11/02/05 08:15	DLK	95-50-1		
1,3-Dichlorobenzene	ND	ug/l	5.0	11/02/05 08:15	DLK	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	5.0	11/02/05 08:15	DLK	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0	11/02/05 08:15	DLK	110-57-6		
Dichlorodifluoromethane	ND	ug/l	5.0	11/02/05 08:15	DLK	75-71-8		
1,1-Dichloroethane	ND	ug/l	5.0	11/02/05 08:15	DLK	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.0	11/02/05 08:15	DLK	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.0	11/02/05 08:15	DLK	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.0	11/02/05 08:15	DLK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.0	11/02/05 08:15	DLK	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.0	11/02/05 08:15	DLK	78-87-5		
1,3-Dichloropropane	ND	ug/l	5.0	11/02/05 08:15	DLK	142-28-9		
2,2-Dichloropropane	ND	ug/l	5.0	11/02/05 08:15	DLK	594-20-7		
1,1-Dichloropropene	ND	ug/l	5.0	11/02/05 08:15	DLK	563-58-6		

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NC Wastewater 40
NC Drinking Water 37712
SC 99030
FL NELAP E87648

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NC Drinking Water 37706
SC 99006
FL NELAP E87627

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Pace Analytical Services, Inc.
2225 Riverside Drive
Asheville, NC 28804
Phone: 828.254.7176
Fax: 828.252.4618

Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

Lab Sample No: 926276361 | Project Sample Number: 92106344-001 | Date Collected: 10/28/05 10:10
Client Sample ID: DW-01 | Matrix: Water | Date Received: 10/28/05 11:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
cis-1,3-Dichloropropene	ND	ug/l	5.0	11/02/05 08:15	DLK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.0	11/02/05 08:15	DLK	10061-02-6		
Ethylbenzene	ND	ug/l	5.0	11/02/05 08:15	DLK	100-41-4		
Ethyl methacrylate	ND	ug/l	5.0	11/02/05 08:15	DLK	97-63-2		
2-Hexanone	ND	ug/l	10.	11/02/05 08:15	DLK	591-78-6		
Iodomethane	ND	ug/l	10.	11/02/05 08:15	DLK	74-88-4		
Isobutanol	ND	ug/l	100	11/02/05 08:15	DLK	78-83-1		
Methacrylonitrile	ND	ug/l	50.	11/02/05 08:15	DLK	126-98-7		
Methylene chloride	ND	ug/l	5.0	11/02/05 08:15	DLK	75-09-2		
Methyl methacrylate	ND	ug/l	5.0	11/02/05 08:15	DLK	80-62-6		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.	11/02/05 08:15	DLK	108-10-1		
Naphthalene	ND	ug/l	5.0	11/02/05 08:15	DLK	91-20-3		
Propionitrile	ND	ug/l	50.	11/02/05 08:15	DLK	107-12-0		
Styrene	ND	ug/l	5.0	11/02/05 08:15	DLK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	11/02/05 08:15	DLK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	11/02/05 08:15	DLK	79-34-5		
Tetrachloroethene	ND	ug/l	5.0	11/02/05 08:15	DLK	127-18-4		
Toluene	ND	ug/l	5.0	11/02/05 08:15	DLK	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.0	11/02/05 08:15	DLK	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.0	11/02/05 08:15	DLK	79-00-5		
Trichloroethene	ND	ug/l	5.0	11/02/05 08:15	DLK	79-01-6		
Trichlorofluoromethane	ND	ug/l	10.	11/02/05 08:15	DLK	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	5.0	11/02/05 08:15	DLK	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/l	5.0	11/02/05 08:15	DLK	76-13-1		
Vinyl acetate	ND	ug/l	10.	11/02/05 08:15	DLK	108-05-4		
Vinyl chloride	ND	ug/l	5.0	11/02/05 08:15	DLK	75-01-4		
Xylene (Total)	ND	ug/l	5.0	11/02/05 08:15	DLK	1330-20-7		
m&p-Xylene	ND	ug/l	10.	11/02/05 08:15	DLK			
o-Xylene	ND	ug/l	5.0	11/02/05 08:15	DLK	95-47-6		
Toluene-d8 (S)	103	%		11/02/05 08:15	DLK	2037-26-5		
4-Bromofluorobenzene (S)	98	%		11/02/05 08:15	DLK	460-00-4		
Dibromofluoromethane (S)	112	%		11/02/05 08:15	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	111	%		11/02/05 08:15	DLK	17060-07-0		

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2225 Riverside Drive
Asheville, NC 28804
Phone: 828.254.7176
Fax: 828.252.4618

Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

Lab Sample No: 926276379 | Project Sample Number: 92106344-002 | Date Collected: 10/27/05 15:30
Client Sample ID: MW-03 | Matrix: Water | Date Received: 10/28/05 11:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010							
Antimony	ND	mg/l	0.0050	11/02/05 17:42	SAJ	7440-36-0		
Arsenic	ND	mg/l	0.0050	11/02/05 17:42	SAJ	7440-38-2		
Barium	0.16	mg/l	0.0050	11/02/05 17:42	SAJ	7440-39-3		
Beryllium	ND	mg/l	0.0010	11/02/05 17:42	SAJ	7440-41-7		
Cadmium	ND	mg/l	0.0010	11/02/05 17:42	SAJ	7440-43-9		
Chromium	ND	mg/l	0.0020	11/02/05 17:42	SAJ	7440-47-3		
Cobalt	0.11	mg/l	0.0050	11/02/05 17:42	SAJ	7440-48-4		
Copper	ND	mg/l	0.0020	11/02/05 17:42	SAJ	7440-50-8		
Lead	ND	mg/l	0.0050	11/02/05 17:42	SAJ	7439-92-1		
Nickel	0.0093	mg/l	0.0050	11/02/05 17:42	SAJ	7440-02-0		
Selenium	ND	mg/l	0.0050	11/02/05 17:42	SAJ	7782-49-2		
Silver	ND	mg/l	0.0020	11/02/05 17:42	SAJ	7440-22-4		
Tin	ND	mg/l	0.0050	11/02/05 17:42	SAJ	7440-31-5		
Vanadium	ND	mg/l	0.0050	11/02/05 17:42	SAJ	7440-62-2		
Zinc	0.015	mg/l	0.010	11/02/05 17:42	SAJ	7440-66-6		
Date Digested	10/31/05 15:20			10/31/05 15:20				
Mercury, CVAAS, in Water	Method: EPA 7470							
Mercury	ND	mg/l	0.00020	11/01/05 01:11	ALV	7439-97-6		
Wet Chemistry								
Cyanide, Total, Water	Method: EPA 335.2							
Cyanide	ND	mg/l	0.0050	10/31/05 14:05	CD1	57-12-5		
Sulfide, Total	Method: EPA 376.2							
Sulfide	0.069	mg/l	0.050	11/01/05 20:00	CD1			
GC Semivolatiles								
Chlorinated Acid Herbicides	Prep/Method: EPA 3510 / EPA 8151							
2,4-D	ND	ug/l	2.0	11/09/05 06:10	JEM	94-75-7		
Dinoseb	ND	ug/l	1.0	11/09/05 06:10	JEM	88-85-7		
2,4,5-T	ND	ug/l	2.0	11/09/05 06:10	JEM	93-76-5		
2,4,5-TP (Silvex)	ND	ug/l	2.0	11/09/05 06:10	JEM	93-72-1		
2,4-DCPA (S)	74	%		11/09/05 06:10	JEM	19719-28-9		
Date Extracted	11/03/05			11/03/05				

Asheville Certification IDs
NC Wastewater 40
NC Drinking Water 37712
SC 99030
FL NELAP E87648

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Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

Lab Sample No: 926276379 | Project Sample Number: 92106344-002 | Date Collected: 10/27/05 15:30
Client Sample ID: MW-03 | Matrix: Water | Date Received: 10/28/05 11:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260							
Acetone	ND	ug/l	25.	11/02/05 08:34	DLK	67-64-1		
Acetonitrile	ND	ug/l	50.	11/02/05 08:34	DLK	75-05-8		
Acrolein	ND	ug/l	25.	11/02/05 08:34	DLK	107-02-8		
Acrylonitrile	ND	ug/l	25.	11/02/05 08:34	DLK	107-13-1		
Allyl chloride	ND	ug/l	50.	11/02/05 08:34	DLK	107-05-1		
Benzene	ND	ug/l	5.0	11/02/05 08:34	DLK	71-43-2		
Bromochloromethane	ND	ug/l	5.0	11/02/05 08:34	DLK	74-97-5		
Bromodichloromethane	ND	ug/l	5.0	11/02/05 08:34	DLK	75-27-4		
Bromoform	ND	ug/l	5.0	11/02/05 08:34	DLK	75-25-2		
Bromomethane	ND	ug/l	5.0	11/02/05 08:34	DLK	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.	11/02/05 08:34	DLK	78-93-3		
n-Butylbenzene	ND	ug/l	5.0	11/02/05 08:34	DLK	104-51-8		
Carbon disulfide	ND	ug/l	10.	11/02/05 08:34	DLK	75-15-0		
Carbon tetrachloride	ND	ug/l	5.0	11/02/05 08:34	DLK	56-23-5		
Chlorobenzene	9.7	ug/l	5.0	11/02/05 08:34	DLK	108-90-7		
Chloroethane	ND	ug/l	10.	11/02/05 08:34	DLK	75-00-3		
Chloroform	ND	ug/l	5.0	11/02/05 08:34	DLK	67-66-3		
Chloromethane	ND	ug/l	5.0	11/02/05 08:34	DLK	74-87-3		
Chloroprene	ND	ug/l	5.0	11/02/05 08:34	DLK	126-99-8		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	11/02/05 08:34	DLK	96-12-8		
Dibromochloromethane	ND	ug/l	5.0	11/02/05 08:34	DLK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	11/02/05 08:34	DLK	106-93-4		
Dibromomethane	ND	ug/l	5.0	11/02/05 08:34	DLK	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	5.0	11/02/05 08:34	DLK	95-50-1		
1,3-Dichlorobenzene	ND	ug/l	5.0	11/02/05 08:34	DLK	541-73-1		
1,4-Dichlorobenzene	19.	ug/l	5.0	11/02/05 08:34	DLK	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0	11/02/05 08:34	DLK	110-57-6		
Dichlorodifluoromethane	ND	ug/l	5.0	11/02/05 08:34	DLK	75-71-8		
1,1-Dichloroethane	6.3	ug/l	5.0	11/02/05 08:34	DLK	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.0	11/02/05 08:34	DLK	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.0	11/02/05 08:34	DLK	75-35-4		
cis-1,2-Dichloroethene	7.3	ug/l	5.0	11/02/05 08:34	DLK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.0	11/02/05 08:34	DLK	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.0	11/02/05 08:34	DLK	78-87-5		
1,3-Dichloropropane	ND	ug/l	5.0	11/02/05 08:34	DLK	142-28-9		
2,2-Dichloropropane	ND	ug/l	5.0	11/02/05 08:34	DLK	594-20-7		
1,1-Dichloropropene	ND	ug/l	5.0	11/02/05 08:34	DLK	563-58-6		

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Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

Lab Sample No: 926276379
Client Sample ID: MW-03

Project Sample Number: 92106344-002
Matrix: Water

Date Collected: 10/27/05 15:30
Date Received: 10/28/05 11:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
cis-1,3-Dichloropropene	ND	ug/l	5.0	11/02/05 08:34	DLK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.0	11/02/05 08:34	DLK	10061-02-6		
Ethylbenzene	ND	ug/l	5.0	11/02/05 08:34	DLK	100-41-4		
Ethyl methacrylate	ND	ug/l	5.0	11/02/05 08:34	DLK	97-63-2		
2-Hexanone	ND	ug/l	10.	11/02/05 08:34	DLK	591-78-6		
Iodomethane	ND	ug/l	10.	11/02/05 08:34	DLK	74-88-4		
Isobutanol	ND	ug/l	100	11/02/05 08:34	DLK	78-83-1		
Methacrylonitrile	ND	ug/l	50.	11/02/05 08:34	DLK	126-98-7		
Methylene chloride	ND	ug/l	5.0	11/02/05 08:34	DLK	75-09-2		
Methyl methacrylate	ND	ug/l	5.0	11/02/05 08:34	DLK	80-62-6		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.	11/02/05 08:34	DLK	108-10-1		
Naphthalene	ND	ug/l	5.0	11/02/05 08:34	DLK	91-20-3		
Propionitrile	ND	ug/l	50.	11/02/05 08:34	DLK	107-12-0		
Styrene	ND	ug/l	5.0	11/02/05 08:34	DLK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	11/02/05 08:34	DLK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	11/02/05 08:34	DLK	79-34-5		
Tetrachloroethene	ND	ug/l	5.0	11/02/05 08:34	DLK	127-18-4		
Toluene	ND	ug/l	5.0	11/02/05 08:34	DLK	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.0	11/02/05 08:34	DLK	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.0	11/02/05 08:34	DLK	79-00-5		
Trichloroethene	ND	ug/l	5.0	11/02/05 08:34	DLK	79-01-6		
Trichlorofluoromethane	ND	ug/l	10.	11/02/05 08:34	DLK	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	5.0	11/02/05 08:34	DLK	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/l	5.0	11/02/05 08:34	DLK	76-13-1		
Vinyl acetate	ND	ug/l	10.	11/02/05 08:34	DLK	108-05-4		
Vinyl chloride	ND	ug/l	5.0	11/02/05 08:34	DLK	75-01-4		
Xylene (Total)	ND	ug/l	5.0	11/02/05 08:34	DLK	1330-20-7		
m&p-Xylene	ND	ug/l	10.	11/02/05 08:34	DLK			
o-Xylene	ND	ug/l	5.0	11/02/05 08:34	DLK	95-47-6		
Toluene-d8 (S)	100	%		11/02/05 08:34	DLK	2037-26-5		
4-Bromofluorobenzene (S)	94	%		11/02/05 08:34	DLK	460-00-4		
Dibromofluoromethane (S)	104	%		11/02/05 08:34	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	106	%		11/02/05 08:34	DLK	17060-07-0		

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Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

Lab Sample No: 926276387 | Project Sample Number: 92106344-003 | Date Collected: 10/27/05 14:45
Client Sample ID: SW-01 | Matrix: Water | Date Received: 10/28/05 11:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010							
Antimony	ND	mg/l	0.0050	11/02/05 17:46	SAJ	7440-36-0		
Arsenic	ND	mg/l	0.0050	11/02/05 17:46	SAJ	7440-38-2		
Barium	0.022	mg/l	0.0050	11/02/05 17:46	SAJ	7440-39-3		
Beryllium	ND	mg/l	0.0010	11/02/05 17:46	SAJ	7440-41-7		
Cadmium	ND	mg/l	0.0010	11/02/05 17:46	SAJ	7440-43-9		
Chromium	ND	mg/l	0.0020	11/02/05 17:46	SAJ	7440-47-3		
Cobalt	ND	mg/l	0.0050	11/02/05 17:46	SAJ	7440-48-4		
Copper	ND	mg/l	0.0020	11/02/05 17:46	SAJ	7440-50-8		
Lead	ND	mg/l	0.0050	11/02/05 17:46	SAJ	7439-92-1		
Nickel	ND	mg/l	0.0050	11/02/05 17:46	SAJ	7440-02-0		
Selenium	ND	mg/l	0.0050	11/02/05 17:46	SAJ	7782-49-2		
Silver	ND	mg/l	0.0020	11/02/05 17:46	SAJ	7440-22-4		
Tin	ND	mg/l	0.0050	11/02/05 17:46	SAJ	7440-31-5		
Vanadium	ND	mg/l	0.0050	11/02/05 17:46	SAJ	7440-62-2		
Zinc	ND	mg/l	0.010	11/02/05 17:46	SAJ	7440-66-6		
Date Digested	10/31/05 15:20			10/31/05 15:20				
Mercury, CVAAS, in Water	Method: EPA 7470							
Mercury	ND	mg/l	0.00020	11/01/05 01:11	ALV	7439-97-6		
Wet Chemistry								
Cyanide, Total, Water	Method: EPA 335.2							
Cyanide	ND	mg/l	0.0050	10/31/05 14:05	CD1	57-12-5		
Sulfide, Total	Method: EPA 376.2							
Sulfide	0.069	mg/l	0.050	11/01/05 20:00	CD1			
GC Semivolatiles								
Chlorinated Acid Herbicides	Prep/Method: EPA 3510 / EPA 8151							
2,4-D	ND	ug/l	2.0	11/09/05 06:31	JEM	94-75-7		
Dinoseb	ND	ug/l	1.0	11/09/05 06:31	JEM	88-85-7		
2,4,5-T	ND	ug/l	2.0	11/09/05 06:31	JEM	93-76-5		
2,4,5-TP (Silvex)	ND	ug/l	2.0	11/09/05 06:31	JEM	93-72-1		
2,4-DCPA (S)	75	%		11/09/05 06:31	JEM	19719-28-9		
Date Extracted	11/03/05			11/03/05				

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Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

Lab Sample No: 926276387 | Project Sample Number: 92106344-003 | Date Collected: 10/27/05 14:45
Client Sample ID: SW-01 | Matrix: Water | Date Received: 10/28/05 11:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260							
Acetone	ND	ug/l	25.	11/02/05 08:54	DLK	67-64-1		
Acetonitrile	ND	ug/l	50.	11/02/05 08:54	DLK	75-05-8		
Acrolein	ND	ug/l	25.	11/02/05 08:54	DLK	107-02-8		
Acrylonitrile	ND	ug/l	25.	11/02/05 08:54	DLK	107-13-1		
Allyl chloride	ND	ug/l	50.	11/02/05 08:54	DLK	107-05-1		
Benzene	ND	ug/l	5.0	11/02/05 08:54	DLK	71-43-2		
Bromochloromethane	ND	ug/l	5.0	11/02/05 08:54	DLK	74-97-5		
Bromodichloromethane	ND	ug/l	5.0	11/02/05 08:54	DLK	75-27-4		
Bromoform	ND	ug/l	5.0	11/02/05 08:54	DLK	75-25-2		
Bromomethane	ND	ug/l	5.0	11/02/05 08:54	DLK	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.	11/02/05 08:54	DLK	78-93-3		
n-Butylbenzene	ND	ug/l	5.0	11/02/05 08:54	DLK	104-51-8		
Carbon disulfide	ND	ug/l	10.	11/02/05 08:54	DLK	75-15-0		
Carbon tetrachloride	ND	ug/l	5.0	11/02/05 08:54	DLK	56-23-5		
Chlorobenzene	ND	ug/l	5.0	11/02/05 08:54	DLK	108-90-7		
Chloroethane	ND	ug/l	10.	11/02/05 08:54	DLK	75-00-3		
Chloroform	ND	ug/l	5.0	11/02/05 08:54	DLK	67-66-3		
Chloromethane	ND	ug/l	5.0	11/02/05 08:54	DLK	74-87-3		
Chloroprene	ND	ug/l	5.0	11/02/05 08:54	DLK	126-99-8		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	11/02/05 08:54	DLK	96-12-8		
Dibromochloromethane	ND	ug/l	5.0	11/02/05 08:54	DLK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	11/02/05 08:54	DLK	106-93-4		
Dibromomethane	ND	ug/l	5.0	11/02/05 08:54	DLK	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	5.0	11/02/05 08:54	DLK	95-50-1		
1,3-Dichlorobenzene	ND	ug/l	5.0	11/02/05 08:54	DLK	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	5.0	11/02/05 08:54	DLK	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0	11/02/05 08:54	DLK	110-57-6		
Dichlorodifluoromethane	ND	ug/l	5.0	11/02/05 08:54	DLK	75-71-8		
1,1-Dichloroethane	ND	ug/l	5.0	11/02/05 08:54	DLK	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.0	11/02/05 08:54	DLK	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.0	11/02/05 08:54	DLK	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.0	11/02/05 08:54	DLK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.0	11/02/05 08:54	DLK	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.0	11/02/05 08:54	DLK	78-87-5		
1,3-Dichloropropane	ND	ug/l	5.0	11/02/05 08:54	DLK	142-28-9		
2,2-Dichloropropane	ND	ug/l	5.0	11/02/05 08:54	DLK	594-20-7		
1,1-Dichloropropene	ND	ug/l	5.0	11/02/05 08:54	DLK	563-58-6		

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Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

Lab Sample No: 926276387 | Project Sample Number: 92106344-003 | Date Collected: 10/27/05 14:45
Client Sample ID: SW-01 | Matrix: Water | Date Received: 10/28/05 11:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
cis-1,3-Dichloropropene	ND	ug/l	5.0	11/02/05 08:54	DLK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.0	11/02/05 08:54	DLK	10061-02-6		
Ethylbenzene	ND	ug/l	5.0	11/02/05 08:54	DLK	100-41-4		
Ethyl methacrylate	ND	ug/l	5.0	11/02/05 08:54	DLK	97-63-2		
2-Hexanone	ND	ug/l	10.	11/02/05 08:54	DLK	591-78-6		
Iodomethane	ND	ug/l	10.	11/02/05 08:54	DLK	74-88-4		
Isobutanol	ND	ug/l	100	11/02/05 08:54	DLK	78-83-1		
Methacrylonitrile	ND	ug/l	50.	11/02/05 08:54	DLK	126-98-7		
Methylene chloride	ND	ug/l	5.0	11/02/05 08:54	DLK	75-09-2		
Methyl methacrylate	ND	ug/l	5.0	11/02/05 08:54	DLK	80-62-6		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.	11/02/05 08:54	DLK	108-10-1		
Naphthalene	ND	ug/l	5.0	11/02/05 08:54	DLK	91-20-3		
Propionitrile	ND	ug/l	50.	11/02/05 08:54	DLK	107-12-0		
Styrene	ND	ug/l	5.0	11/02/05 08:54	DLK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	11/02/05 08:54	DLK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	11/02/05 08:54	DLK	79-34-5		
Tetrachloroethene	ND	ug/l	5.0	11/02/05 08:54	DLK	127-18-4		
Toluene	ND	ug/l	5.0	11/02/05 08:54	DLK	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.0	11/02/05 08:54	DLK	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.0	11/02/05 08:54	DLK	79-00-5		
Trichloroethene	ND	ug/l	5.0	11/02/05 08:54	DLK	79-01-6		
Trichlorofluoromethane	ND	ug/l	10.	11/02/05 08:54	DLK	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	5.0	11/02/05 08:54	DLK	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/l	5.0	11/02/05 08:54	DLK	76-13-1		
Vinyl acetate	ND	ug/l	10.	11/02/05 08:54	DLK	108-05-4		
Vinyl chloride	ND	ug/l	5.0	11/02/05 08:54	DLK	75-01-4		
Xylene (Total)	ND	ug/l	5.0	11/02/05 08:54	DLK	1330-20-7		
m&p-Xylene	ND	ug/l	10.	11/02/05 08:54	DLK			
o-Xylene	ND	ug/l	5.0	11/02/05 08:54	DLK	95-47-6		
Toluene-d8 (S)	103	%		11/02/05 08:54	DLK	2037-26-5		
4-Bromofluorobenzene (S)	93	%		11/02/05 08:54	DLK	460-00-4		
Dibromofluoromethane (S)	111	%		11/02/05 08:54	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	109	%		11/02/05 08:54	DLK	17060-07-0		

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Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

Lab Sample No: 926276395 | Project Sample Number: 92106344-004 | Date Collected: 10/27/05 14:30
Client Sample ID: MW-04 | Matrix: Water | Date Received: 10/28/05 11:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010							
Antimony	ND	mg/l	0.0050	11/02/05 17:50	SAJ	7440-36-0		
Arsenic	ND	mg/l	0.0050	11/02/05 17:50	SAJ	7440-38-2		
Barium	6.1	mg/l	0.0050	11/02/05 17:50	SAJ	7440-39-3		
Beryllium	ND	mg/l	0.0010	11/02/05 17:50	SAJ	7440-41-7		
Cadmium	ND	mg/l	0.0010	11/02/05 17:50	SAJ	7440-43-9		
Chromium	0.012	mg/l	0.0020	11/02/05 17:50	SAJ	7440-47-3		
Cobalt	0.0062	mg/l	0.0050	11/02/05 17:50	SAJ	7440-48-4		
Copper	0.011	mg/l	0.0020	11/02/05 17:50	SAJ	7440-50-8		
Lead	0.0058	mg/l	0.0050	11/02/05 17:50	SAJ	7439-92-1		
Nickel	0.0094	mg/l	0.0050	11/02/05 17:50	SAJ	7440-02-0		
Selenium	ND	mg/l	0.0050	11/02/05 17:50	SAJ	7782-49-2		
Silver	ND	mg/l	0.0020	11/02/05 17:50	SAJ	7440-22-4		
Tin	ND	mg/l	0.0050	11/02/05 17:50	SAJ	7440-31-5		
Vanadium	0.014	mg/l	0.0050	11/02/05 17:50	SAJ	7440-62-2		
Zinc	0.051	mg/l	0.010	11/02/05 17:50	SAJ	7440-66-6		
Date Digested	10/31/05 15:20			10/31/05 15:20				
Mercury, CVAAS, in Water	Method: EPA 7470							
Mercury	0.00040	mg/l	0.00020	11/01/05 01:11	ALV	7439-97-6		
Wet Chemistry								
Cyanide, Total, Water	Method: EPA 335.2							
Cyanide	ND	mg/l	0.0050	10/31/05 14:05	CD1	57-12-5		
Sulfide, Total	Method: EPA 376.2							
Sulfide	0.087	mg/l	0.050	11/01/05 20:00	CD1			
GC Semivolatiles								
Chlorinated Acid Herbicides	Prep/Method: EPA 3510 / EPA 8151							
2,4-D	ND	ug/l	2.0	11/09/05 06:52	JEM	94-75-7		
Dinoseb	ND	ug/l	1.0	11/09/05 06:52	JEM	88-85-7		
2,4,5-T	ND	ug/l	2.0	11/09/05 06:52	JEM	93-76-5		
2,4,5-TP (Silvex)	ND	ug/l	2.0	11/09/05 06:52	JEM	93-72-1		
2,4-DCPA (S)	83	%		11/09/05 06:52	JEM	19719-28-9		
Date Extracted	11/03/05			11/03/05				

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Fax: 828.252.4618

Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

Lab Sample No: 926276395 | Project Sample Number: 92106344-004 | Date Collected: 10/27/05 14:30
Client Sample ID: MW-04 | Matrix: Water | Date Received: 10/28/05 11:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260							
Acetone	ND	ug/l	25.	11/02/05 09:13	DLK	67-64-1		
Acetonitrile	ND	ug/l	50.	11/02/05 09:13	DLK	75-05-8		
Acrolein	ND	ug/l	25.	11/02/05 09:13	DLK	107-02-8		
Acrylonitrile	ND	ug/l	25.	11/02/05 09:13	DLK	107-13-1		
Allyl chloride	ND	ug/l	50.	11/02/05 09:13	DLK	107-05-1		
Benzene	ND	ug/l	5.0	11/02/05 09:13	DLK	71-43-2		
Bromochloromethane	ND	ug/l	5.0	11/02/05 09:13	DLK	74-97-5		
Bromodichloromethane	ND	ug/l	5.0	11/02/05 09:13	DLK	75-27-4		
Bromoform	ND	ug/l	5.0	11/02/05 09:13	DLK	75-25-2		
Bromomethane	ND	ug/l	5.0	11/02/05 09:13	DLK	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.	11/02/05 09:13	DLK	78-93-3		
n-Butylbenzene	ND	ug/l	5.0	11/02/05 09:13	DLK	104-51-8		
Carbon disulfide	ND	ug/l	10.	11/02/05 09:13	DLK	75-15-0		
Carbon tetrachloride	ND	ug/l	5.0	11/02/05 09:13	DLK	56-23-5		
Chlorobenzene	7.0	ug/l	5.0	11/02/05 09:13	DLK	108-90-7		
Chloroethane	ND	ug/l	10.	11/02/05 09:13	DLK	75-00-3		
Chloroform	ND	ug/l	5.0	11/02/05 09:13	DLK	67-66-3		
Chloromethane	ND	ug/l	5.0	11/02/05 09:13	DLK	74-87-3		
Chloroprene	ND	ug/l	5.0	11/02/05 09:13	DLK	126-99-8		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	11/02/05 09:13	DLK	96-12-8		
Dibromochloromethane	ND	ug/l	5.0	11/02/05 09:13	DLK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	11/02/05 09:13	DLK	106-93-4		
Dibromomethane	ND	ug/l	5.0	11/02/05 09:13	DLK	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	5.0	11/02/05 09:13	DLK	95-50-1		
1,3-Dichlorobenzene	ND	ug/l	5.0	11/02/05 09:13	DLK	541-73-1		
1,4-Dichlorobenzene	8.9	ug/l	5.0	11/02/05 09:13	DLK	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0	11/02/05 09:13	DLK	110-57-6		
Dichlorodifluoromethane	ND	ug/l	5.0	11/02/05 09:13	DLK	75-71-8		
1,1-Dichloroethane	ND	ug/l	5.0	11/02/05 09:13	DLK	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.0	11/02/05 09:13	DLK	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.0	11/02/05 09:13	DLK	75-35-4		
cis-1,2-Dichloroethene	14.	ug/l	5.0	11/02/05 09:13	DLK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.0	11/02/05 09:13	DLK	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.0	11/02/05 09:13	DLK	78-87-5		
1,3-Dichloropropane	ND	ug/l	5.0	11/02/05 09:13	DLK	142-28-9		
2,2-Dichloropropane	ND	ug/l	5.0	11/02/05 09:13	DLK	594-20-7		
1,1-Dichloropropene	ND	ug/l	5.0	11/02/05 09:13	DLK	563-58-6		

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Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

Lab Sample No: 926276395
Client Sample ID: MW-04

Project Sample Number: 92106344-004
Matrix: Water

Date Collected: 10/27/05 14:30
Date Received: 10/28/05 11:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
cis-1,3-Dichloropropene	ND	ug/l	5.0	11/02/05 09:13	DLK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.0	11/02/05 09:13	DLK	10061-02-6		
Ethylbenzene	ND	ug/l	5.0	11/02/05 09:13	DLK	100-41-4		
Ethyl methacrylate	ND	ug/l	5.0	11/02/05 09:13	DLK	97-63-2		
2-Hexanone	ND	ug/l	10.	11/02/05 09:13	DLK	591-78-6		
Iodomethane	ND	ug/l	10.	11/02/05 09:13	DLK	74-88-4		
Isobutanol	ND	ug/l	100	11/02/05 09:13	DLK	78-83-1		
Methacrylonitrile	ND	ug/l	50.	11/02/05 09:13	DLK	126-98-7		
Methylene chloride	ND	ug/l	5.0	11/02/05 09:13	DLK	75-09-2		
Methyl methacrylate	ND	ug/l	5.0	11/02/05 09:13	DLK	80-62-6		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.	11/02/05 09:13	DLK	108-10-1		
Naphthalene	ND	ug/l	5.0	11/02/05 09:13	DLK	91-20-3		
Propionitrile	ND	ug/l	50.	11/02/05 09:13	DLK	107-12-0		
Styrene	ND	ug/l	5.0	11/02/05 09:13	DLK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	11/02/05 09:13	DLK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	11/02/05 09:13	DLK	79-34-5		
Tetrachloroethene	ND	ug/l	5.0	11/02/05 09:13	DLK	127-18-4		
Toluene	ND	ug/l	5.0	11/02/05 09:13	DLK	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.0	11/02/05 09:13	DLK	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.0	11/02/05 09:13	DLK	79-00-5		
Trichloroethene	ND	ug/l	5.0	11/02/05 09:13	DLK	79-01-6		
Trichlorofluoromethane	ND	ug/l	10.	11/02/05 09:13	DLK	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	5.0	11/02/05 09:13	DLK	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/l	5.0	11/02/05 09:13	DLK	76-13-1		
Vinyl acetate	ND	ug/l	10.	11/02/05 09:13	DLK	108-05-4		
Vinyl chloride	ND	ug/l	5.0	11/02/05 09:13	DLK	75-01-4		
Xylene (Total)	ND	ug/l	5.0	11/02/05 09:13	DLK	1330-20-7		
m&p-Xylene	ND	ug/l	10.	11/02/05 09:13	DLK			
o-Xylene	ND	ug/l	5.0	11/02/05 09:13	DLK	95-47-6		
Toluene-d8 (S)	101	%		11/02/05 09:13	DLK	2037-26-5		
4-Bromofluorobenzene (S)	99	%		11/02/05 09:13	DLK	460-00-4		
Dibromofluoromethane (S)	108	%		11/02/05 09:13	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	103	%		11/02/05 09:13	DLK	17060-07-0		

Date: 11/10/05

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Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

Lab Sample No: 926276403 | Project Sample Number: 92106344-005 | Date Collected: 10/27/05 13:45
Client Sample ID: SW-02 | Matrix: Water | Date Received: 10/28/05 11:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010							
Antimony	ND	mg/l	0.0050	11/02/05 17:54	SAJ	7440-36-0		
Arsenic	ND	mg/l	0.0050	11/02/05 17:54	SAJ	7440-38-2		
Barium	0.014	mg/l	0.0050	11/02/05 17:54	SAJ	7440-39-3		
Beryllium	ND	mg/l	0.0010	11/02/05 17:54	SAJ	7440-41-7		
Cadmium	ND	mg/l	0.0010	11/02/05 17:54	SAJ	7440-43-9		
Chromium	ND	mg/l	0.0020	11/02/05 17:54	SAJ	7440-47-3		
Cobalt	ND	mg/l	0.0050	11/02/05 17:54	SAJ	7440-48-4		
Copper	ND	mg/l	0.0020	11/02/05 17:54	SAJ	7440-50-8		
Lead	ND	mg/l	0.0050	11/02/05 17:54	SAJ	7439-92-1		
Nickel	ND	mg/l	0.0050	11/02/05 17:54	SAJ	7440-02-0		
Selenium	ND	mg/l	0.0050	11/02/05 17:54	SAJ	7782-49-2		
Silver	ND	mg/l	0.0020	11/02/05 17:54	SAJ	7440-22-4		
Tin	ND	mg/l	0.0050	11/02/05 17:54	SAJ	7440-31-5		
Vanadium	ND	mg/l	0.0050	11/02/05 17:54	SAJ	7440-62-2		
Zinc	0.016	mg/l	0.010	11/02/05 17:54	SAJ	7440-66-6		
Date Digested	10/31/05 15:20			10/31/05 15:20				
Mercury, CVAAS, in Water	Method: EPA 7470							
Mercury	0.00025	mg/l	0.00020	11/01/05 01:11	ALV	7439-97-6		
Wet Chemistry								
Cyanide, Total, Water	Method: EPA 335.2							
Cyanide	ND	mg/l	0.0050	11/01/05 15:25	CD1	57-12-5		
Sulfide, Total	Method: EPA 376.2							
Sulfide	0.069	mg/l	0.050	11/01/05 20:00	CD1			
GC Semivolatiles								
Chlorinated Acid Herbicides	Prep/Method: EPA 3510 / EPA 8151							
2,4-D	ND	ug/l	2.0	11/09/05 07:13	JEM	94-75-7		
Dinoseb	ND	ug/l	1.0	11/09/05 07:13	JEM	88-85-7		
2,4,5-T	ND	ug/l	2.0	11/09/05 07:13	JEM	93-76-5		
2,4,5-TP (Silvex)	ND	ug/l	2.0	11/09/05 07:13	JEM	93-72-1		
2,4-DCPA (S)	80	%		11/09/05 07:13	JEM	19719-28-9		
Date Extracted	11/03/05			11/03/05				

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Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

Lab Sample No: 926276403 | Project Sample Number: 92106344-005 | Date Collected: 10/27/05 13:45
Client Sample ID: SW-02 | Matrix: Water | Date Received: 10/28/05 11:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260							
Acetone	ND	ug/l	25.	11/02/05 09:33	DLK	67-64-1		
Acetonitrile	ND	ug/l	50.	11/02/05 09:33	DLK	75-05-8		
Acrolein	ND	ug/l	25.	11/02/05 09:33	DLK	107-02-8		
Acrylonitrile	ND	ug/l	25.	11/02/05 09:33	DLK	107-13-1		
Allyl chloride	ND	ug/l	50.	11/02/05 09:33	DLK	107-05-1		
Benzene	ND	ug/l	5.0	11/02/05 09:33	DLK	71-43-2		
Bromochloromethane	ND	ug/l	5.0	11/02/05 09:33	DLK	74-97-5		
Bromodichloromethane	ND	ug/l	5.0	11/02/05 09:33	DLK	75-27-4		
Bromoform	ND	ug/l	5.0	11/02/05 09:33	DLK	75-25-2		
Bromomethane	ND	ug/l	5.0	11/02/05 09:33	DLK	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.	11/02/05 09:33	DLK	78-93-3		
n-Butylbenzene	ND	ug/l	5.0	11/02/05 09:33	DLK	104-51-8		
Carbon disulfide	ND	ug/l	10.	11/02/05 09:33	DLK	75-15-0		
Carbon tetrachloride	ND	ug/l	5.0	11/02/05 09:33	DLK	56-23-5		
Chlorobenzene	ND	ug/l	5.0	11/02/05 09:33	DLK	108-90-7		
Chloroethane	ND	ug/l	10.	11/02/05 09:33	DLK	75-00-3		
Chloroform	ND	ug/l	5.0	11/02/05 09:33	DLK	67-66-3		
Chloromethane	ND	ug/l	5.0	11/02/05 09:33	DLK	74-87-3		
Chloroprene	ND	ug/l	5.0	11/02/05 09:33	DLK	126-99-8		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	11/02/05 09:33	DLK	96-12-8		
Dibromochloromethane	ND	ug/l	5.0	11/02/05 09:33	DLK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	11/02/05 09:33	DLK	106-93-4		
Dibromomethane	ND	ug/l	5.0	11/02/05 09:33	DLK	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	5.0	11/02/05 09:33	DLK	95-50-1		
1,3-Dichlorobenzene	ND	ug/l	5.0	11/02/05 09:33	DLK	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	5.0	11/02/05 09:33	DLK	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0	11/02/05 09:33	DLK	110-57-6		
Dichlorodifluoromethane	ND	ug/l	5.0	11/02/05 09:33	DLK	75-71-8		
1,1-Dichloroethane	ND	ug/l	5.0	11/02/05 09:33	DLK	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.0	11/02/05 09:33	DLK	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.0	11/02/05 09:33	DLK	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.0	11/02/05 09:33	DLK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.0	11/02/05 09:33	DLK	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.0	11/02/05 09:33	DLK	78-87-5		
1,3-Dichloropropane	ND	ug/l	5.0	11/02/05 09:33	DLK	142-28-9		
2,2-Dichloropropane	ND	ug/l	5.0	11/02/05 09:33	DLK	594-20-7		
1,1-Dichloropropene	ND	ug/l	5.0	11/02/05 09:33	DLK	563-58-6		

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Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

Lab Sample No: 926276403 | Project Sample Number: 92106344-005 | Date Collected: 10/27/05 13:45
Client Sample ID: SW-02 | Matrix: Water | Date Received: 10/28/05 11:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
cis-1,3-Dichloropropene	ND	ug/l	5.0	11/02/05 09:33	DLK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.0	11/02/05 09:33	DLK	10061-02-6		
Ethylbenzene	ND	ug/l	5.0	11/02/05 09:33	DLK	100-41-4		
Ethyl methacrylate	ND	ug/l	5.0	11/02/05 09:33	DLK	97-63-2		
2-Hexanone	ND	ug/l	10.	11/02/05 09:33	DLK	591-78-6		
Iodomethane	ND	ug/l	10.	11/02/05 09:33	DLK	74-88-4		
Isobutanol	ND	ug/l	100	11/02/05 09:33	DLK	78-83-1		
Methacrylonitrile	ND	ug/l	50.	11/02/05 09:33	DLK	126-98-7		
Methylene chloride	ND	ug/l	5.0	11/02/05 09:33	DLK	75-09-2		
Methyl methacrylate	ND	ug/l	5.0	11/02/05 09:33	DLK	80-62-6		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.	11/02/05 09:33	DLK	108-10-1		
Naphthalene	ND	ug/l	5.0	11/02/05 09:33	DLK	91-20-3		
Propionitrile	ND	ug/l	50.	11/02/05 09:33	DLK	107-12-0		
Styrene	ND	ug/l	5.0	11/02/05 09:33	DLK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	11/02/05 09:33	DLK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	11/02/05 09:33	DLK	79-34-5		
Tetrachloroethene	ND	ug/l	5.0	11/02/05 09:33	DLK	127-18-4		
Toluene	ND	ug/l	5.0	11/02/05 09:33	DLK	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.0	11/02/05 09:33	DLK	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.0	11/02/05 09:33	DLK	79-00-5		
Trichloroethene	ND	ug/l	5.0	11/02/05 09:33	DLK	79-01-6		
Trichlorofluoromethane	ND	ug/l	10.	11/02/05 09:33	DLK	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	5.0	11/02/05 09:33	DLK	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/l	5.0	11/02/05 09:33	DLK	76-13-1		
Vinyl acetate	ND	ug/l	10.	11/02/05 09:33	DLK	108-05-4		
Vinyl chloride	ND	ug/l	5.0	11/02/05 09:33	DLK	75-01-4		
Xylene (Total)	ND	ug/l	5.0	11/02/05 09:33	DLK	1330-20-7		
m&p-Xylene	ND	ug/l	10.	11/02/05 09:33	DLK			
o-Xylene	ND	ug/l	5.0	11/02/05 09:33	DLK	95-47-6		
Toluene-d8 (S)	103	%		11/02/05 09:33	DLK	2037-26-5		
4-Bromofluorobenzene (S)	96	%		11/02/05 09:33	DLK	460-00-4		
Dibromofluoromethane (S)	110	%		11/02/05 09:33	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	111	%		11/02/05 09:33	DLK	17060-07-0		

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Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

Lab Sample No: 926276411 | Project Sample Number: 92106344-006 | Date Collected: 10/27/05 13:30
Client Sample ID: MW-02 | Matrix: Water | Date Received: 10/28/05 11:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010							
Antimony	ND	mg/l	0.0050	11/02/05 17:59	SAJ	7440-36-0		
Arsenic	ND	mg/l	0.0050	11/02/05 17:59	SAJ	7440-38-2		
Barium	0.048	mg/l	0.0050	11/02/05 17:59	SAJ	7440-39-3		
Beryllium	ND	mg/l	0.0010	11/02/05 17:59	SAJ	7440-41-7		
Cadmium	ND	mg/l	0.0010	11/02/05 17:59	SAJ	7440-43-9		
Chromium	ND	mg/l	0.0020	11/02/05 17:59	SAJ	7440-47-3		
Cobalt	ND	mg/l	0.0050	11/02/05 17:59	SAJ	7440-48-4		
Copper	ND	mg/l	0.0020	11/02/05 17:59	SAJ	7440-50-8		
Lead	ND	mg/l	0.0050	11/02/05 17:59	SAJ	7439-92-1		
Nickel	0.0065	mg/l	0.0050	11/02/05 17:59	SAJ	7440-02-0		
Selenium	ND	mg/l	0.0050	11/02/05 17:59	SAJ	7782-49-2		
Silver	ND	mg/l	0.0020	11/02/05 17:59	SAJ	7440-22-4		
Tin	ND	mg/l	0.0050	11/02/05 17:59	SAJ	7440-31-5		
Vanadium	ND	mg/l	0.0050	11/02/05 17:59	SAJ	7440-62-2		
Zinc	0.010	mg/l	0.010	11/02/05 17:59	SAJ	7440-66-6		
Date Digested	10/31/05 15:20			10/31/05 15:20				
Mercury, CVAAS, in Water	Method: EPA 7470							
Mercury	0.00026	mg/l	0.00020	11/01/05 01:11	ALV	7439-97-6		
Wet Chemistry								
Cyanide, Total, Water	Method: EPA 335.2							
Cyanide	ND	mg/l	0.0050	11/01/05 15:25	CD1	57-12-5		
Sulfide, Total	Method: EPA 376.2							
Sulfide	0.069	mg/l	0.050	11/01/05 20:00	CD1			
GC Semivolatiles								
Chlorinated Acid Herbicides	Prep/Method: EPA 3510 / EPA 8151							
2,4-D	ND	ug/l	2.0	11/09/05 07:34	JEM	94-75-7		
Dinoseb	ND	ug/l	1.0	11/09/05 07:34	JEM	88-85-7		
2,4,5-T	ND	ug/l	2.0	11/09/05 07:34	JEM	93-76-5		
2,4,5-TP (Silvex)	ND	ug/l	2.0	11/09/05 07:34	JEM	93-72-1		
2,4-DCPA (S)	72	%		11/09/05 07:34	JEM	19719-28-9		
Date Extracted	11/03/05			11/03/05				

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Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

Lab Sample No: 926276411 | Project Sample Number: 92106344-006 | Date Collected: 10/27/05 13:30
Client Sample ID: MW-02 | Matrix: Water | Date Received: 10/28/05 11:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260							
Acetone	ND	ug/l	25.	11/02/05 09:53	DLK	67-64-1		
Acetonitrile	ND	ug/l	50.	11/02/05 09:53	DLK	75-05-8		
Acrolein	ND	ug/l	25.	11/02/05 09:53	DLK	107-02-8		
Acrylonitrile	ND	ug/l	25.	11/02/05 09:53	DLK	107-13-1		
Allyl chloride	ND	ug/l	50.	11/02/05 09:53	DLK	107-05-1		
Benzene	ND	ug/l	5.0	11/02/05 09:53	DLK	71-43-2		
Bromochloromethane	ND	ug/l	5.0	11/02/05 09:53	DLK	74-97-5		
Bromodichloromethane	ND	ug/l	5.0	11/02/05 09:53	DLK	75-27-4		
Bromoform	ND	ug/l	5.0	11/02/05 09:53	DLK	75-25-2		
Bromomethane	ND	ug/l	5.0	11/02/05 09:53	DLK	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.	11/02/05 09:53	DLK	78-93-3		
n-Butylbenzene	ND	ug/l	5.0	11/02/05 09:53	DLK	104-51-8		
Carbon disulfide	ND	ug/l	10.	11/02/05 09:53	DLK	75-15-0		
Carbon tetrachloride	ND	ug/l	5.0	11/02/05 09:53	DLK	56-23-5		
Chlorobenzene	ND	ug/l	5.0	11/02/05 09:53	DLK	108-90-7		
Chloroethane	ND	ug/l	10.	11/02/05 09:53	DLK	75-00-3		
Chloroform	ND	ug/l	5.0	11/02/05 09:53	DLK	67-66-3		
Chloromethane	ND	ug/l	5.0	11/02/05 09:53	DLK	74-87-3		
Chloroprene	ND	ug/l	5.0	11/02/05 09:53	DLK	126-99-8		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	11/02/05 09:53	DLK	96-12-8		
Dibromochloromethane	ND	ug/l	5.0	11/02/05 09:53	DLK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	11/02/05 09:53	DLK	106-93-4		
Dibromomethane	ND	ug/l	5.0	11/02/05 09:53	DLK	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	5.0	11/02/05 09:53	DLK	95-50-1		
1,3-Dichlorobenzene	ND	ug/l	5.0	11/02/05 09:53	DLK	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	5.0	11/02/05 09:53	DLK	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0	11/02/05 09:53	DLK	110-57-6		
Dichlorodifluoromethane	ND	ug/l	5.0	11/02/05 09:53	DLK	75-71-8		
1,1-Dichloroethane	ND	ug/l	5.0	11/02/05 09:53	DLK	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.0	11/02/05 09:53	DLK	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.0	11/02/05 09:53	DLK	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.0	11/02/05 09:53	DLK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.0	11/02/05 09:53	DLK	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.0	11/02/05 09:53	DLK	78-87-5		
1,3-Dichloropropane	ND	ug/l	5.0	11/02/05 09:53	DLK	142-28-9		
2,2-Dichloropropane	ND	ug/l	5.0	11/02/05 09:53	DLK	594-20-7		
1,1-Dichloropropene	ND	ug/l	5.0	11/02/05 09:53	DLK	563-58-6		

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Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

Lab Sample No: 926276411 | Project Sample Number: 92106344-006 | Date Collected: 10/27/05 13:30
Client Sample ID: MW-02 | Matrix: Water | Date Received: 10/28/05 11:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
cis-1,3-Dichloropropene	ND	ug/l	5.0	11/02/05 09:53	DLK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.0	11/02/05 09:53	DLK	10061-02-6		
Ethylbenzene	ND	ug/l	5.0	11/02/05 09:53	DLK	100-41-4		
Ethyl methacrylate	ND	ug/l	5.0	11/02/05 09:53	DLK	97-63-2		
2-Hexanone	ND	ug/l	10.	11/02/05 09:53	DLK	591-78-6		
Iodomethane	ND	ug/l	10.	11/02/05 09:53	DLK	74-88-4		
Isobutanol	ND	ug/l	100	11/02/05 09:53	DLK	78-83-1		
Methacrylonitrile	ND	ug/l	50.	11/02/05 09:53	DLK	126-98-7		
Methylene chloride	ND	ug/l	5.0	11/02/05 09:53	DLK	75-09-2		
Methyl methacrylate	ND	ug/l	5.0	11/02/05 09:53	DLK	80-62-6		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.	11/02/05 09:53	DLK	108-10-1		
Naphthalene	ND	ug/l	5.0	11/02/05 09:53	DLK	91-20-3		
Propionitrile	ND	ug/l	50.	11/02/05 09:53	DLK	107-12-0		
Styrene	ND	ug/l	5.0	11/02/05 09:53	DLK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	11/02/05 09:53	DLK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	11/02/05 09:53	DLK	79-34-5		
Tetrachloroethene	ND	ug/l	5.0	11/02/05 09:53	DLK	127-18-4		
Toluene	ND	ug/l	5.0	11/02/05 09:53	DLK	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.0	11/02/05 09:53	DLK	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.0	11/02/05 09:53	DLK	79-00-5		
Trichloroethene	ND	ug/l	5.0	11/02/05 09:53	DLK	79-01-6		
Trichlorofluoromethane	ND	ug/l	10.	11/02/05 09:53	DLK	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	5.0	11/02/05 09:53	DLK	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/l	5.0	11/02/05 09:53	DLK	76-13-1		
Vinyl acetate	ND	ug/l	10.	11/02/05 09:53	DLK	108-05-4		
Vinyl chloride	ND	ug/l	5.0	11/02/05 09:53	DLK	75-01-4		
Xylene (Total)	ND	ug/l	5.0	11/02/05 09:53	DLK	1330-20-7		
m&p-Xylene	ND	ug/l	10.	11/02/05 09:53	DLK			
o-Xylene	ND	ug/l	5.0	11/02/05 09:53	DLK	95-47-6		
Toluene-d8 (S)	103	%		11/02/05 09:53	DLK	2037-26-5		
4-Bromofluorobenzene (S)	98	%		11/02/05 09:53	DLK	460-00-4		
Dibromofluoromethane (S)	109	%		11/02/05 09:53	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	105	%		11/02/05 09:53	DLK	17060-07-0		

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Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

Lab Sample No: 926276445 | Project Sample Number: 92106344-007 | Date Collected: 10/27/05 11:30
Client Sample ID: MW-06 | Matrix: Water | Date Received: 10/28/05 11:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010							
Antimony	0.0063	mg/l	0.0050	11/09/05 06:34	SAJ	7440-36-0		
Arsenic	ND	mg/l	0.0050	11/09/05 06:34	SAJ	7440-38-2		
Barium	0.066	mg/l	0.0050	11/09/05 06:34	SAJ	7440-39-3		
Beryllium	ND	mg/l	0.0010	11/09/05 06:34	SAJ	7440-41-7		
Cadmium	ND	mg/l	0.0010	11/09/05 06:34	SAJ	7440-43-9		
Chromium	ND	mg/l	0.0020	11/09/05 06:34	SAJ	7440-47-3		
Cobalt	0.014	mg/l	0.0050	11/09/05 06:34	SAJ	7440-48-4		
Copper	0.0057	mg/l	0.0020	11/09/05 06:34	SAJ	7440-50-8		
Lead	ND	mg/l	0.0050	11/09/05 06:34	SAJ	7439-92-1		
Nickel	ND	mg/l	0.0050	11/09/05 06:34	SAJ	7440-02-0		
Selenium	ND	mg/l	0.0050	11/09/05 06:34	SAJ	7782-49-2		
Silver	ND	mg/l	0.0020	11/09/05 06:34	SAJ	7440-22-4		
Vanadium	ND	mg/l	0.0050	11/09/05 06:34	SAJ	7440-62-2		
Zinc	0.024	mg/l	0.010	11/09/05 06:34	SAJ	7440-66-6		
Date Digested	11/01/05 14:00			11/01/05 14:00				
Mercury, CVAAS, in Water	Method: EPA 7470							
Mercury	0.00027	mg/l	0.00020	11/01/05 01:11	ALV	7439-97-6		
Wet Chemistry								
Cyanide, Total, Water	Method: EPA 335.2							
Cyanide	ND	mg/l	0.0050	11/01/05 15:25	CD1	57-12-5		
Sulfide, Total	Method: EPA 376.2							
Sulfide	0.069	mg/l	0.050	11/01/05 20:00	CD1			
GC Semivolatiles								
Chlorinated Acid Herbicides	Prep/Method: EPA 3510 / EPA 8151							
2,4-D	ND	ug/l	2.0	11/09/05 07:54	JEM	94-75-7		
Dinoseb	ND	ug/l	1.0	11/09/05 07:54	JEM	88-85-7		
2,4,5-T	ND	ug/l	2.0	11/09/05 07:54	JEM	93-76-5		
2,4,5-TP (Silvex)	ND	ug/l	2.0	11/09/05 07:54	JEM	93-72-1		
2,4-DCPA (S)	79	%		11/09/05 07:54	JEM	19719-28-9		
Date Extracted	11/03/05			11/03/05				
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260							

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Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

Lab Sample No: 926276445 | Project Sample Number: 92106344-007 | Date Collected: 10/27/05 11:30
Client Sample ID: MW-06 | Matrix: Water | Date Received: 10/28/05 11:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Acetone	ND	ug/l	25.	11/02/05 10:12	DLK	67-64-1		
Acetonitrile	ND	ug/l	50.	11/02/05 10:12	DLK	75-05-8		
Acrolein	ND	ug/l	25.	11/02/05 10:12	DLK	107-02-8		
Acrylonitrile	ND	ug/l	25.	11/02/05 10:12	DLK	107-13-1		
Allyl chloride	ND	ug/l	50.	11/02/05 10:12	DLK	107-05-1		
Benzene	ND	ug/l	5.0	11/02/05 10:12	DLK	71-43-2		
Bromochloromethane	ND	ug/l	5.0	11/02/05 10:12	DLK	74-97-5		
Bromodichloromethane	ND	ug/l	5.0	11/02/05 10:12	DLK	75-27-4		
Bromoform	ND	ug/l	5.0	11/02/05 10:12	DLK	75-25-2		
Bromomethane	ND	ug/l	5.0	11/02/05 10:12	DLK	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.	11/02/05 10:12	DLK	78-93-3		
n-Butylbenzene	ND	ug/l	5.0	11/02/05 10:12	DLK	104-51-8		
Carbon disulfide	ND	ug/l	10.	11/02/05 10:12	DLK	75-15-0		
Carbon tetrachloride	ND	ug/l	5.0	11/02/05 10:12	DLK	56-23-5		
Chlorobenzene	ND	ug/l	5.0	11/02/05 10:12	DLK	108-90-7		
Chloroethane	ND	ug/l	10.	11/02/05 10:12	DLK	75-00-3		
Chloroform	ND	ug/l	5.0	11/02/05 10:12	DLK	67-66-3		
Chloromethane	ND	ug/l	5.0	11/02/05 10:12	DLK	74-87-3		
Chloroprene	ND	ug/l	5.0	11/02/05 10:12	DLK	126-99-8		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	11/02/05 10:12	DLK	96-12-8		
Dibromochloromethane	ND	ug/l	5.0	11/02/05 10:12	DLK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	11/02/05 10:12	DLK	106-93-4		
Dibromomethane	ND	ug/l	5.0	11/02/05 10:12	DLK	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	5.0	11/02/05 10:12	DLK	95-50-1		
1,3-Dichlorobenzene	ND	ug/l	5.0	11/02/05 10:12	DLK	541-73-1		
1,4-Dichlorobenzene	11.	ug/l	5.0	11/02/05 10:12	DLK	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0	11/02/05 10:12	DLK	110-57-6		
Dichlorodifluoromethane	ND	ug/l	5.0	11/02/05 10:12	DLK	75-71-8		
1,1-Dichloroethane	7.9	ug/l	5.0	11/02/05 10:12	DLK	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.0	11/02/05 10:12	DLK	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.0	11/02/05 10:12	DLK	75-35-4		
cis-1,2-Dichloroethene	16.	ug/l	5.0	11/02/05 10:12	DLK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.0	11/02/05 10:12	DLK	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.0	11/02/05 10:12	DLK	78-87-5		
1,3-Dichloropropane	ND	ug/l	5.0	11/02/05 10:12	DLK	142-28-9		
2,2-Dichloropropane	ND	ug/l	5.0	11/02/05 10:12	DLK	594-20-7		
1,1-Dichloropropene	ND	ug/l	5.0	11/02/05 10:12	DLK	563-58-6		
cis-1,3-Dichloropropene	ND	ug/l	5.0	11/02/05 10:12	DLK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.0	11/02/05 10:12	DLK	10061-02-6		

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Fax: 828.252.4618

Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

Lab Sample No: 926276445 | Project Sample Number: 92106344-007 | Date Collected: 10/27/05 11:30
Client Sample ID: MW-06 | Matrix: Water | Date Received: 10/28/05 11:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Ethylbenzene	ND	ug/l	5.0	11/02/05 10:12	DLK	100-41-4		
Ethyl methacrylate	ND	ug/l	5.0	11/02/05 10:12	DLK	97-63-2		
2-Hexanone	ND	ug/l	10.	11/02/05 10:12	DLK	591-78-6		
Iodomethane	ND	ug/l	10.	11/02/05 10:12	DLK	74-88-4		
Isobutanol	ND	ug/l	100	11/02/05 10:12	DLK	78-83-1		
Methacrylonitrile	ND	ug/l	50.	11/02/05 10:12	DLK	126-98-7		
Methylene chloride	9.5	ug/l	5.0	11/02/05 10:12	DLK	75-09-2		
Methyl methacrylate	ND	ug/l	5.0	11/02/05 10:12	DLK	80-62-6		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.	11/02/05 10:12	DLK	108-10-1		
Naphthalene	ND	ug/l	5.0	11/02/05 10:12	DLK	91-20-3		
Propionitrile	ND	ug/l	50.	11/02/05 10:12	DLK	107-12-0		
Styrene	ND	ug/l	5.0	11/02/05 10:12	DLK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	11/02/05 10:12	DLK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	11/02/05 10:12	DLK	79-34-5		
Tetrachloroethene	ND	ug/l	5.0	11/02/05 10:12	DLK	127-18-4		
Toluene	ND	ug/l	5.0	11/02/05 10:12	DLK	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.0	11/02/05 10:12	DLK	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.0	11/02/05 10:12	DLK	79-00-5		
Trichloroethene	ND	ug/l	5.0	11/02/05 10:12	DLK	79-01-6		
Trichlorofluoromethane	ND	ug/l	10.	11/02/05 10:12	DLK	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	5.0	11/02/05 10:12	DLK	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/l	5.0	11/02/05 10:12	DLK	76-13-1		
Vinyl acetate	ND	ug/l	10.	11/02/05 10:12	DLK	108-05-4		
Vinyl chloride	ND	ug/l	5.0	11/02/05 10:12	DLK	75-01-4		
Xylene (Total)	9.6	ug/l	5.0	11/02/05 10:12	DLK	1330-20-7		
m&p-Xylene	ND	ug/l	10.	11/02/05 10:12	DLK			
o-Xylene	9.6	ug/l	5.0	11/02/05 10:12	DLK	95-47-6		
Toluene-d8 (S)	102	%		11/02/05 10:12	DLK	2037-26-5		
4-Bromofluorobenzene (S)	97	%		11/02/05 10:12	DLK	460-00-4		
Dibromofluoromethane (S)	106	%		11/02/05 10:12	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	104	%		11/02/05 10:12	DLK	17060-07-0		

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Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

Lab Sample No: 926276452 | Project Sample Number: 92106344-008 | Date Collected: 10/27/05 10:45
Client Sample ID: MW-01 | Matrix: Water | Date Received: 10/28/05 11:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010							
Antimony	ND	mg/l	0.0050	11/09/05 06:37	SAJ	7440-36-0		
Arsenic	ND	mg/l	0.0050	11/09/05 06:37	SAJ	7440-38-2		
Barium	0.13	mg/l	0.0050	11/09/05 06:37	SAJ	7440-39-3		
Beryllium	ND	mg/l	0.0010	11/09/05 06:37	SAJ	7440-41-7		
Cadmium	ND	mg/l	0.0010	11/09/05 06:37	SAJ	7440-43-9		
Chromium	ND	mg/l	0.0020	11/09/05 06:37	SAJ	7440-47-3		
Cobalt	0.12	mg/l	0.0050	11/09/05 06:37	SAJ	7440-48-4		
Copper	0.0034	mg/l	0.0020	11/09/05 06:37	SAJ	7440-50-8		
Lead	ND	mg/l	0.0050	11/09/05 06:37	SAJ	7439-92-1		
Nickel	0.011	mg/l	0.0050	11/09/05 06:37	SAJ	7440-02-0		
Selenium	ND	mg/l	0.0050	11/09/05 06:37	SAJ	7782-49-2		
Silver	ND	mg/l	0.0020	11/09/05 06:37	SAJ	7440-22-4		
Vanadium	ND	mg/l	0.0050	11/09/05 06:37	SAJ	7440-62-2		
Zinc	0.018	mg/l	0.010	11/09/05 06:37	SAJ	7440-66-6		
Date Digested	11/01/05 14:00			11/01/05 14:00				
Mercury, CVAAS, in Water	Method: EPA 7470							
Mercury	ND	mg/l	0.00020	11/01/05 01:11	ALV	7439-97-6		
Wet Chemistry								
Cyanide, Total, Water	Method: EPA 335.2							
Cyanide	ND	mg/l	0.0050	11/01/05 15:25	CD1	57-12-5		
Sulfide, Total	Method: EPA 376.2							
Sulfide	0.069	mg/l	0.050	11/01/05 20:00	CD1			
GC Semivolatiles								
Chlorinated Acid Herbicides	Prep/Method: EPA 3510 / EPA 8151							
2,4-D	ND	ug/l	2.0	11/09/05 08:15	JEM	94-75-7		
Dinoseb	ND	ug/l	1.0	11/09/05 08:15	JEM	88-85-7		
2,4,5-T	ND	ug/l	2.0	11/09/05 08:15	JEM	93-76-5		
2,4,5-TP (Silvex)	ND	ug/l	2.0	11/09/05 08:15	JEM	93-72-1		
2,4-DCPA (S)	76	%		11/09/05 08:15	JEM	19719-28-9		
Date Extracted	11/03/05			11/03/05				
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260							

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Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

Lab Sample No: 926276452 | Project Sample Number: 92106344-008 | Date Collected: 10/27/05 10:45
Client Sample ID: MW-01 | Matrix: Water | Date Received: 10/28/05 11:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Acetone	ND	ug/l	25.	11/02/05 10:32	DLK	67-64-1		
Acetonitrile	ND	ug/l	50.	11/02/05 10:32	DLK	75-05-8		
Acrolein	ND	ug/l	25.	11/02/05 10:32	DLK	107-02-8		
Acrylonitrile	ND	ug/l	25.	11/02/05 10:32	DLK	107-13-1		
Allyl chloride	ND	ug/l	50.	11/02/05 10:32	DLK	107-05-1		
Benzene	7.6	ug/l	5.0	11/02/05 10:32	DLK	71-43-2		
Bromochloromethane	ND	ug/l	5.0	11/02/05 10:32	DLK	74-97-5		
Bromodichloromethane	ND	ug/l	5.0	11/02/05 10:32	DLK	75-27-4		
Bromoform	ND	ug/l	5.0	11/02/05 10:32	DLK	75-25-2		
Bromomethane	ND	ug/l	5.0	11/02/05 10:32	DLK	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.	11/02/05 10:32	DLK	78-93-3		
n-Butylbenzene	ND	ug/l	5.0	11/02/05 10:32	DLK	104-51-8		
Carbon disulfide	ND	ug/l	10.	11/02/05 10:32	DLK	75-15-0		
Carbon tetrachloride	ND	ug/l	5.0	11/02/05 10:32	DLK	56-23-5		
Chlorobenzene	ND	ug/l	5.0	11/02/05 10:32	DLK	108-90-7		
Chloroethane	ND	ug/l	10.	11/02/05 10:32	DLK	75-00-3		
Chloroform	ND	ug/l	5.0	11/02/05 10:32	DLK	67-66-3		
Chloromethane	ND	ug/l	5.0	11/02/05 10:32	DLK	74-87-3		
Chloroprene	ND	ug/l	5.0	11/02/05 10:32	DLK	126-99-8		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	11/02/05 10:32	DLK	96-12-8		
Dibromochloromethane	ND	ug/l	5.0	11/02/05 10:32	DLK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	11/02/05 10:32	DLK	106-93-4		
Dibromomethane	ND	ug/l	5.0	11/02/05 10:32	DLK	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	5.0	11/02/05 10:32	DLK	95-50-1		
1,3-Dichlorobenzene	ND	ug/l	5.0	11/02/05 10:32	DLK	541-73-1		
1,4-Dichlorobenzene	13.	ug/l	5.0	11/02/05 10:32	DLK	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0	11/02/05 10:32	DLK	110-57-6		
Dichlorodifluoromethane	ND	ug/l	5.0	11/02/05 10:32	DLK	75-71-8		
1,1-Dichloroethane	9.5	ug/l	5.0	11/02/05 10:32	DLK	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.0	11/02/05 10:32	DLK	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.0	11/02/05 10:32	DLK	75-35-4		
cis-1,2-Dichloroethene	18.	ug/l	5.0	11/02/05 10:32	DLK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.0	11/02/05 10:32	DLK	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.0	11/02/05 10:32	DLK	78-87-5		
1,3-Dichloropropane	ND	ug/l	5.0	11/02/05 10:32	DLK	142-28-9		
2,2-Dichloropropane	ND	ug/l	5.0	11/02/05 10:32	DLK	594-20-7		
1,1-Dichloropropene	ND	ug/l	5.0	11/02/05 10:32	DLK	563-58-6		
cis-1,3-Dichloropropene	ND	ug/l	5.0	11/02/05 10:32	DLK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.0	11/02/05 10:32	DLK	10061-02-6		

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Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

Lab Sample No: 926276452 | Project Sample Number: 92106344-008 | Date Collected: 10/27/05 10:45
Client Sample ID: MW-01 | Matrix: Water | Date Received: 10/28/05 11:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Ethylbenzene	ND	ug/l	5.0	11/02/05 10:32	DLK	100-41-4		
Ethyl methacrylate	ND	ug/l	5.0	11/02/05 10:32	DLK	97-63-2		
2-Hexanone	ND	ug/l	10.	11/02/05 10:32	DLK	591-78-6		
Iodomethane	ND	ug/l	10.	11/02/05 10:32	DLK	74-88-4		
Isobutanol	ND	ug/l	100	11/02/05 10:32	DLK	78-83-1		
Methacrylonitrile	ND	ug/l	50.	11/02/05 10:32	DLK	126-98-7		
Methylene chloride	ND	ug/l	5.0	11/02/05 10:32	DLK	75-09-2		
Methyl methacrylate	ND	ug/l	5.0	11/02/05 10:32	DLK	80-62-6		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.	11/02/05 10:32	DLK	108-10-1		
Naphthalene	ND	ug/l	5.0	11/02/05 10:32	DLK	91-20-3		
Propionitrile	ND	ug/l	50.	11/02/05 10:32	DLK	107-12-0		
Styrene	ND	ug/l	5.0	11/02/05 10:32	DLK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	11/02/05 10:32	DLK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	11/02/05 10:32	DLK	79-34-5		
Tetrachloroethene	ND	ug/l	5.0	11/02/05 10:32	DLK	127-18-4		
Toluene	ND	ug/l	5.0	11/02/05 10:32	DLK	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.0	11/02/05 10:32	DLK	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.0	11/02/05 10:32	DLK	79-00-5		
Trichloroethene	ND	ug/l	5.0	11/02/05 10:32	DLK	79-01-6		
Trichlorofluoromethane	ND	ug/l	10.	11/02/05 10:32	DLK	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	5.0	11/02/05 10:32	DLK	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/l	5.0	11/02/05 10:32	DLK	76-13-1		
Vinyl acetate	ND	ug/l	10.	11/02/05 10:32	DLK	108-05-4		
Vinyl chloride	ND	ug/l	5.0	11/02/05 10:32	DLK	75-01-4		
Xylene (Total)	38.	ug/l	5.0	11/02/05 10:32	DLK	1330-20-7		
m&p-Xylene	ND	ug/l	10.	11/02/05 10:32	DLK			
o-Xylene	33.	ug/l	5.0	11/02/05 10:32	DLK	95-47-6		
Toluene-d8 (S)	101	%		11/02/05 10:32	DLK	2037-26-5		
4-Bromofluorobenzene (S)	97	%		11/02/05 10:32	DLK	460-00-4		
Dibromofluoromethane (S)	106	%		11/02/05 10:32	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	103	%		11/02/05 10:32	DLK	17060-07-0		

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Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

Lab Sample No: 926276460 | Project Sample Number: 92106344-009 | Date Collected: 10/27/05 00:00
Client Sample ID: TRIP BLANK 10/27 | Matrix: Water | Date Received: 10/28/05 11:37

GC/MS Volatiles

GC/MS VOCs by 8260 — Method: EPA 8260

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Acetone	ND	ug/l	25.	11/02/05 04:58	DLK	67-64-1		
Acetonitrile	ND	ug/l	50.	11/02/05 04:58	DLK	75-05-8		
Acrolein	ND	ug/l	25.	11/02/05 04:58	DLK	107-02-8		
Acrylonitrile	ND	ug/l	25.	11/02/05 04:58	DLK	107-13-1		
Allyl chloride	ND	ug/l	50.	11/02/05 04:58	DLK	107-05-1		
Benzene	ND	ug/l	5.0	11/02/05 04:58	DLK	71-43-2		
Bromochloromethane	ND	ug/l	5.0	11/02/05 04:58	DLK	74-97-5		
Bromodichloromethane	ND	ug/l	5.0	11/02/05 04:58	DLK	75-27-4		
Bromoform	ND	ug/l	5.0	11/02/05 04:58	DLK	75-25-2		
Bromomethane	ND	ug/l	5.0	11/02/05 04:58	DLK	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.	11/02/05 04:58	DLK	78-93-3		
n-Butylbenzene	ND	ug/l	5.0	11/02/05 04:58	DLK	104-51-8		
Carbon disulfide	ND	ug/l	10.	11/02/05 04:58	DLK	75-15-0		
Carbon tetrachloride	ND	ug/l	5.0	11/02/05 04:58	DLK	56-23-5		
Chlorobenzene	ND	ug/l	5.0	11/02/05 04:58	DLK	108-90-7		
Chloroethane	ND	ug/l	10.	11/02/05 04:58	DLK	75-00-3		
Chloroform	ND	ug/l	5.0	11/02/05 04:58	DLK	67-66-3		
Chloromethane	ND	ug/l	5.0	11/02/05 04:58	DLK	74-87-3		
Chloroprene	ND	ug/l	5.0	11/02/05 04:58	DLK	126-99-8		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	11/02/05 04:58	DLK	96-12-8		
Dibromochloromethane	ND	ug/l	5.0	11/02/05 04:58	DLK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	11/02/05 04:58	DLK	106-93-4		
Dibromomethane	ND	ug/l	5.0	11/02/05 04:58	DLK	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	5.0	11/02/05 04:58	DLK	95-50-1		
1,3-Dichlorobenzene	ND	ug/l	5.0	11/02/05 04:58	DLK	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	5.0	11/02/05 04:58	DLK	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0	11/02/05 04:58	DLK	110-57-6		
Dichlorodifluoromethane	ND	ug/l	5.0	11/02/05 04:58	DLK	75-71-8		
1,1-Dichloroethane	ND	ug/l	5.0	11/02/05 04:58	DLK	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.0	11/02/05 04:58	DLK	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.0	11/02/05 04:58	DLK	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.0	11/02/05 04:58	DLK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.0	11/02/05 04:58	DLK	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.0	11/02/05 04:58	DLK	78-87-5		
1,3-Dichloropropane	ND	ug/l	5.0	11/02/05 04:58	DLK	142-28-9		
2,2-Dichloropropane	ND	ug/l	5.0	11/02/05 04:58	DLK	594-20-7		
1,1-Dichloropropene	ND	ug/l	5.0	11/02/05 04:58	DLK	563-58-6		

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Fax: 828.252.4618

Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

Lab Sample No: 926276460 | Project Sample Number: 92106344-009 | Date Collected: 10/27/05 00:00
Client Sample ID: TRIP BLANK 10/27 | Matrix: Water | Date Received: 10/28/05 11:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
cis-1,3-Dichloropropene	ND	ug/l	5.0	11/02/05 04:58	DLK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.0	11/02/05 04:58	DLK	10061-02-6		
Ethylbenzene	ND	ug/l	5.0	11/02/05 04:58	DLK	100-41-4		
Ethyl methacrylate	ND	ug/l	5.0	11/02/05 04:58	DLK	97-63-2		
2-Hexanone	ND	ug/l	10.	11/02/05 04:58	DLK	591-78-6		
Iodomethane	ND	ug/l	10.	11/02/05 04:58	DLK	74-88-4		
Isobutanol	ND	ug/l	100	11/02/05 04:58	DLK	78-83-1		
Methacrylonitrile	ND	ug/l	50.	11/02/05 04:58	DLK	126-98-7		
Methylene chloride	ND	ug/l	5.0	11/02/05 04:58	DLK	75-09-2		
Methyl methacrylate	ND	ug/l	5.0	11/02/05 04:58	DLK	80-62-6		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.	11/02/05 04:58	DLK	108-10-1		
Naphthalene	ND	ug/l	5.0	11/02/05 04:58	DLK	91-20-3		
Propionitrile	ND	ug/l	50.	11/02/05 04:58	DLK	107-12-0		
Styrene	ND	ug/l	5.0	11/02/05 04:58	DLK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	11/02/05 04:58	DLK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	11/02/05 04:58	DLK	79-34-5		
Tetrachloroethene	ND	ug/l	5.0	11/02/05 04:58	DLK	127-18-4		
Toluene	ND	ug/l	5.0	11/02/05 04:58	DLK	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.0	11/02/05 04:58	DLK	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.0	11/02/05 04:58	DLK	79-00-5		
Trichloroethene	ND	ug/l	5.0	11/02/05 04:58	DLK	79-01-6		
Trichlorofluoromethane	ND	ug/l	10.	11/02/05 04:58	DLK	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	5.0	11/02/05 04:58	DLK	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/l	5.0	11/02/05 04:58	DLK	76-13-1		
Vinyl acetate	ND	ug/l	10.	11/02/05 04:58	DLK	108-05-4		
Vinyl chloride	ND	ug/l	5.0	11/02/05 04:58	DLK	75-01-4		
Xylene (Total)	ND	ug/l	5.0	11/02/05 04:58	DLK	1330-20-7		
m&p-Xylene	ND	ug/l	10.	11/02/05 04:58	DLK			
o-Xylene	ND	ug/l	5.0	11/02/05 04:58	DLK	95-47-6		
Toluene-d8 (S)	100	%		11/02/05 04:58	DLK	2037-26-5		
4-Bromofluorobenzene (S)	98	%		11/02/05 04:58	DLK	460-00-4		
Dibromofluoromethane (S)	107	%		11/02/05 04:58	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	106	%		11/02/05 04:58	DLK	17060-07-0		

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Fax: 828.252.4618

Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

Lab Sample No: 926276478 | Project Sample Number: 92106344-010 | Date Collected: 10/28/05 00:00
Client Sample ID: TRIP BLANK 10/28 | Matrix: Water | Date Received: 10/28/05 11:37

GC/MS Volatiles

GC/MS VOCs by 8260 — Method: EPA 8260

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Acetone	ND	ug/l	25.	11/02/05 05:18	DLK	67-64-1		
Acetonitrile	ND	ug/l	50.	11/02/05 05:18	DLK	75-05-8		
Acrolein	ND	ug/l	25.	11/02/05 05:18	DLK	107-02-8		
Acrylonitrile	ND	ug/l	25.	11/02/05 05:18	DLK	107-13-1		
Allyl chloride	ND	ug/l	50.	11/02/05 05:18	DLK	107-05-1		
Benzene	ND	ug/l	5.0	11/02/05 05:18	DLK	71-43-2		
Bromochloromethane	ND	ug/l	5.0	11/02/05 05:18	DLK	74-97-5		
Bromodichloromethane	ND	ug/l	5.0	11/02/05 05:18	DLK	75-27-4		
Bromoform	ND	ug/l	5.0	11/02/05 05:18	DLK	75-25-2		
Bromomethane	ND	ug/l	5.0	11/02/05 05:18	DLK	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.	11/02/05 05:18	DLK	78-93-3		
n-Butylbenzene	ND	ug/l	5.0	11/02/05 05:18	DLK	104-51-8		
Carbon disulfide	ND	ug/l	10.	11/02/05 05:18	DLK	75-15-0		
Carbon tetrachloride	ND	ug/l	5.0	11/02/05 05:18	DLK	56-23-5		
Chlorobenzene	ND	ug/l	5.0	11/02/05 05:18	DLK	108-90-7		
Chloroethane	ND	ug/l	10.	11/02/05 05:18	DLK	75-00-3		
Chloroform	ND	ug/l	5.0	11/02/05 05:18	DLK	67-66-3		
Chloromethane	ND	ug/l	5.0	11/02/05 05:18	DLK	74-87-3		
Chloroprene	ND	ug/l	5.0	11/02/05 05:18	DLK	126-99-8		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	11/02/05 05:18	DLK	96-12-8		
Dibromochloromethane	ND	ug/l	5.0	11/02/05 05:18	DLK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	11/02/05 05:18	DLK	106-93-4		
Dibromomethane	ND	ug/l	5.0	11/02/05 05:18	DLK	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	5.0	11/02/05 05:18	DLK	95-50-1		
1,3-Dichlorobenzene	ND	ug/l	5.0	11/02/05 05:18	DLK	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	5.0	11/02/05 05:18	DLK	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0	11/02/05 05:18	DLK	110-57-6		
Dichlorodifluoromethane	ND	ug/l	5.0	11/02/05 05:18	DLK	75-71-8		
1,1-Dichloroethane	ND	ug/l	5.0	11/02/05 05:18	DLK	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.0	11/02/05 05:18	DLK	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.0	11/02/05 05:18	DLK	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.0	11/02/05 05:18	DLK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.0	11/02/05 05:18	DLK	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.0	11/02/05 05:18	DLK	78-87-5		
1,3-Dichloropropane	ND	ug/l	5.0	11/02/05 05:18	DLK	142-28-9		
2,2-Dichloropropane	ND	ug/l	5.0	11/02/05 05:18	DLK	594-20-7		
1,1-Dichloropropene	ND	ug/l	5.0	11/02/05 05:18	DLK	563-58-6		

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Fax: 828.252.4618

Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

Lab Sample No: 926276478 | Project Sample Number: 92106344-010 | Date Collected: 10/28/05 00:00
Client Sample ID: TRIP BLANK 10/28 | Matrix: Water | Date Received: 10/28/05 11:37

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
cis-1,3-Dichloropropene	ND	ug/l	5.0	11/02/05 05:18	DLK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.0	11/02/05 05:18	DLK	10061-02-6		
Ethylbenzene	ND	ug/l	5.0	11/02/05 05:18	DLK	100-41-4		
Ethyl methacrylate	ND	ug/l	5.0	11/02/05 05:18	DLK	97-63-2		
2-Hexanone	ND	ug/l	10.	11/02/05 05:18	DLK	591-78-6		
Iodomethane	ND	ug/l	10.	11/02/05 05:18	DLK	74-88-4		
Isobutanol	ND	ug/l	100	11/02/05 05:18	DLK	78-83-1		
Methacrylonitrile	ND	ug/l	50.	11/02/05 05:18	DLK	126-98-7		
Methylene chloride	ND	ug/l	5.0	11/02/05 05:18	DLK	75-09-2		
Methyl methacrylate	ND	ug/l	5.0	11/02/05 05:18	DLK	80-62-6		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.	11/02/05 05:18	DLK	108-10-1		
Naphthalene	ND	ug/l	5.0	11/02/05 05:18	DLK	91-20-3		
Propionitrile	ND	ug/l	50.	11/02/05 05:18	DLK	107-12-0		
Styrene	ND	ug/l	5.0	11/02/05 05:18	DLK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	11/02/05 05:18	DLK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	11/02/05 05:18	DLK	79-34-5		
Tetrachloroethene	ND	ug/l	5.0	11/02/05 05:18	DLK	127-18-4		
Toluene	ND	ug/l	5.0	11/02/05 05:18	DLK	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.0	11/02/05 05:18	DLK	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.0	11/02/05 05:18	DLK	79-00-5		
Trichloroethene	ND	ug/l	5.0	11/02/05 05:18	DLK	79-01-6		
Trichlorofluoromethane	ND	ug/l	10.	11/02/05 05:18	DLK	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	5.0	11/02/05 05:18	DLK	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/l	5.0	11/02/05 05:18	DLK	76-13-1		
Vinyl acetate	ND	ug/l	10.	11/02/05 05:18	DLK	108-05-4		
Vinyl chloride	ND	ug/l	5.0	11/02/05 05:18	DLK	75-01-4		
Xylene (Total)	ND	ug/l	5.0	11/02/05 05:18	DLK	1330-20-7		
m&p-Xylene	ND	ug/l	10.	11/02/05 05:18	DLK			
o-Xylene	ND	ug/l	5.0	11/02/05 05:18	DLK	95-47-6		
Toluene-d8 (S)	104	%		11/02/05 05:18	DLK	2037-26-5		
4-Bromofluorobenzene (S)	95	%		11/02/05 05:18	DLK	460-00-4		
Dibromofluoromethane (S)	105	%		11/02/05 05:18	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	104	%		11/02/05 05:18	DLK	17060-07-0		

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Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

PARAMETER FOOTNOTES

Method 9071B modified to use ASE.

All pH, Free Chlorine, Total Chlorine and Ferrous Iron analyses conducted outside of EPA recommended immediate hold time.

Depending on the moisture content the PRLs can be elevated for all soil samples reported on a dry weight basis.

2-Chloroethyl vinyl ether has been shown to degrade in the presence of acid.

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
(S)	Surrogate

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QUALITY CONTROL DATA

Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

QC Batch: 141781 — Analysis Method: EPA 8151
QC Batch Method: EPA 3510 — Analysis Description: Chlorinated Acid Herbicides
Associated Lab Samples: 926276361 926276379 926276387 926276395 926276403 926276411 926276445 926276452

METHOD BLANK: 926298761
Associated Lab Samples: 926276361 926276379 926276387 926276395 926276403 926276411 926276445 926276452

Parameter	Units	Blank Result	Reporting Limit	Footnotes
2,4-D	ug/l	ND	2.0	
Dinoseb	ug/l	ND	1.0	
2,4,5-T	ug/l	ND	2.0	
2,4,5-TP (Silvex)	ug/l	ND	2.0	
2,4-DCPA (S)	%	73		

LABORATORY CONTROL SAMPLE: 926298779

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
2,4-D	ug/l	5.000	3.672	73	
2,4,5-TP (Silvex)	ug/l	5.000	4.399	88	
2,4,5-T	ug/l	5.000	3.875	78	
Dinoseb	ug/l	5.000	1.151	23	
2,4-DCPA (S)				74	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 926299116 926299124

Parameter	Units	926276411 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
2,4-D	ug/l	0	5.000	2.706	2.964	54	59	9	
2,4,5-TP (Silvex)	ug/l	0	5.000	2.950	3.943	59	79	29	
2,4,5-T	ug/l	0	5.000	2.847	3.385	57	68	17	1,1
Dinoseb	ug/l	0	5.000	1.936	2.406	39	48	22	
2,4-DCPA (S)						54	73		

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QUALITY CONTROL DATA

Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

QC Batch: 141532 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: GC/MS VOCs by 8260
Associated Lab Samples: 926276361 926276379 926276387 926276395 926276403 926276411 926276445 926276452 926276460 926276478

METHOD BLANK: 926285198
Associated Lab Samples: 926276361 926276379 926276387 926276395 926276403 926276411 926276445 926276452 926276460 926276478

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Acetone	ug/l	ND	25.	
Acetonitrile	ug/l	ND	50.	
Acrolein	ug/l	ND	25.	
Acrylonitrile	ug/l	ND	25.	
Allyl chloride	ug/l	ND	50.	
Benzene	ug/l	ND	5.0	
Bromochloromethane	ug/l	ND	5.0	
Bromodichloromethane	ug/l	ND	5.0	
Bromoform	ug/l	ND	5.0	
Bromomethane	ug/l	ND	5.0	
2-Butanone (MEK)	ug/l	ND	10.	
n-Butylbenzene	ug/l	ND	5.0	
Carbon disulfide	ug/l	ND	10.	
Carbon tetrachloride	ug/l	ND	5.0	
Chlorobenzene	ug/l	ND	5.0	
Chloroethane	ug/l	ND	10.	
Chloroform	ug/l	ND	5.0	
Chloromethane	ug/l	ND	5.0	
Chloroprene	ug/l	ND	5.0	
1,2-Dibromo-3-chloropropane	ug/l	ND	5.0	
Dibromochloromethane	ug/l	ND	5.0	
1,2-Dibromoethane (EDB)	ug/l	ND	5.0	
Dibromomethane	ug/l	ND	5.0	
1,2-Dichlorobenzene	ug/l	ND	5.0	
1,3-Dichlorobenzene	ug/l	ND	5.0	
1,4-Dichlorobenzene	ug/l	ND	5.0	
trans-1,4-Dichloro-2-butene	ug/l	ND	5.0	
Dichlorodifluoromethane	ug/l	ND	5.0	
1,1-Dichloroethane	ug/l	ND	5.0	

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QUALITY CONTROL DATA

Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

METHOD BLANK: 926285198
Associated Lab Samples: 926276361 926276379 926276387 926276395 926276403 926276411 926276445 926276452 926276460 926276478

Parameter	Units	Blank Result	Reporting Limit	Footnotes
1,2-Dichloroethane	ug/l	ND	5.0	
1,1-Dichloroethene	ug/l	ND	5.0	
cis-1,2-Dichloroethene	ug/l	ND	5.0	
trans-1,2-Dichloroethene	ug/l	ND	5.0	
1,2-Dichloropropane	ug/l	ND	5.0	
1,3-Dichloropropane	ug/l	ND	5.0	
2,2-Dichloropropane	ug/l	ND	5.0	
1,1-Dichloropropene	ug/l	ND	5.0	
cis-1,3-Dichloropropene	ug/l	ND	5.0	
trans-1,3-Dichloropropene	ug/l	ND	5.0	
Ethylbenzene	ug/l	ND	5.0	
Ethyl methacrylate	ug/l	ND	5.0	
2-Hexanone	ug/l	ND	10.	
Iodomethane	ug/l	ND	10.	
Isobutanol	ug/l	ND	100	
Methacrylonitrile	ug/l	ND	50.	
Methylene chloride	ug/l	ND	5.0	
Methyl methacrylate	ug/l	ND	5.0	
4-Methyl-2-pentanone (MIBK)	ug/l	ND	10.	
Naphthalene	ug/l	ND	5.0	
Propionitrile	ug/l	ND	50.	
Styrene	ug/l	ND	5.0	
1,1,1,2-Tetrachloroethane	ug/l	ND	5.0	
1,1,2,2-Tetrachloroethane	ug/l	ND	5.0	
Tetrachloroethene	ug/l	ND	5.0	
Toluene	ug/l	ND	5.0	
1,1,1-Trichloroethane	ug/l	ND	5.0	
1,1,2-Trichloroethane	ug/l	ND	5.0	
Trichloroethene	ug/l	ND	5.0	
Trichlorofluoromethane	ug/l	ND	10.	
1,2,3-Trichloropropane	ug/l	ND	5.0	
1,1,2-Trichlorotrifluoroethane	ug/l	ND	5.0	
Vinyl acetate	ug/l	ND	10.	
Vinyl chloride	ug/l	ND	5.0	
Xylene (Total)	ug/l	ND	5.0	

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QUALITY CONTROL DATA

Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

METHOD BLANK: 926285198
Associated Lab Samples: 926276361 926276379 926276387 926276395 926276403 926276411 926276445 926276452 926276460 926276478

Parameter	Units	Blank Result	Reporting Limit	Footnotes
m&p-Xylene	ug/l	ND	10.	
o-Xylene	ug/l	ND	5.0	
Toluene-d8 (S)	%	102		
4-Bromofluorobenzene (S)	%	96		
Dibromofluoromethane (S)	%	102		
1,2-Dichloroethane-d4 (S)	%	102		

LABORATORY CONTROL SAMPLE: 926285206

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Acetone	ug/l	100.00	64.74	65	
Acrolein	ug/l	250.00	201.8	81	
Acrylonitrile	ug/l	250.00	218.6	87	
Benzene	ug/l	50.00	48.78	98	
Bromochloromethane	ug/l	50.00	44.81	90	
Bromodichloromethane	ug/l	50.00	45.58	91	
Bromoform	ug/l	50.00	33.49	67	
Bromomethane	ug/l	50.00	66.53	133	
2-Butanone (MEK)	ug/l	100.00	73.88	74	
n-Butylbenzene	ug/l	50.00	46.80	94	
Carbon disulfide	ug/l	100.00	88.26	88	
Carbon tetrachloride	ug/l	50.00	55.48	111	
Chlorobenzene	ug/l	50.00	47.80	96	
Chloroethane	ug/l	50.00	50.47	101	
Chloroform	ug/l	50.00	48.91	98	
Chloromethane	ug/l	50.00	39.78	80	
1,2-Dibromo-3-chloropropane	ug/l	50.00	43.11	86	
Dibromochloromethane	ug/l	50.00	46.14	92	
1,2-Dibromoethane (EDB)	ug/l	50.00	45.86	92	
Dibromomethane	ug/l	50.00	41.74	84	
1,2-Dichlorobenzene	ug/l	50.00	46.13	92	
1,3-Dichlorobenzene	ug/l	50.00	46.21	92	
1,4-Dichlorobenzene	ug/l	50.00	45.64	91	

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QUALITY CONTROL DATA

Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

LABORATORY CONTROL SAMPLE: 926285206

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
trans-1,4-Dichloro-2-butene	ug/l	50.00	41.50	83	
Dichlorodifluoromethane	ug/l	50.00	41.28	83	
1,1-Dichloroethane	ug/l	50.00	48.24	96	
1,2-Dichloroethane	ug/l	50.00	42.85	86	
1,1-Dichloroethene	ug/l	50.00	56.78	114	
cis-1,2-Dichloroethene	ug/l	50.00	47.16	94	
trans-1,2-Dichloroethene	ug/l	50.00	49.67	99	
1,2-Dichloropropane	ug/l	50.00	50.46	101	
1,3-Dichloropropane	ug/l	50.00	48.23	96	
2,2-Dichloropropane	ug/l	50.00	45.86	92	
1,1-Dichloropropene	ug/l	50.00	54.73	109	
cis-1,3-Dichloropropene	ug/l	50.00	48.32	97	
trans-1,3-Dichloropropene	ug/l	50.00	43.98	88	
Ethylbenzene	ug/l	50.00	48.80	98	
2-Hexanone	ug/l	100.00	75.33	75	
Iodomethane	ug/l	100.00	102.0	102	
Methylene chloride	ug/l	50.00	50.00	100	
4-Methyl-2-pentanone (MIBK)	ug/l	100.00	84.51	84	
Naphthalene	ug/l	50.00	35.56	71	
Styrene	ug/l	50.00	45.80	92	
1,1,1,2-Tetrachloroethane	ug/l	50.00	47.69	95	
1,1,2,2-Tetrachloroethane	ug/l	50.00	43.47	87	
Tetrachloroethene	ug/l	50.00	50.31	101	
Toluene	ug/l	50.00	45.49	91	
1,1,1-Trichloroethane	ug/l	50.00	47.42	95	
1,1,2-Trichloroethane	ug/l	50.00	45.23	90	
Trichloroethene	ug/l	50.00	49.56	99	
Trichlorofluoromethane	ug/l	50.00	50.11	100	
1,2,3-Trichloropropane	ug/l	50.00	42.66	85	
1,1,2-Trichlorotrifluoroethane	ug/l	50.00	47.30	95	
Vinyl acetate	ug/l	100.00	92.80	93	
Vinyl chloride	ug/l	50.00	42.96	86	
Xylene (Total)	ug/l	150.00	144.0	96	
m&p-Xylene	ug/l	100.00	98.64	99	
o-Xylene	ug/l	50.00	45.33	91	
Toluene-d8 (S)				100	
4-Bromofluorobenzene (S)				99	

Date: 11/10/05

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QUALITY CONTROL DATA

Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

LABORATORY CONTROL SAMPLE: 926285206

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Dibromofluoromethane (S)				90	
1,2-Dichloroethane-d4 (S)				89	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 926285214 926285222

Parameter	Units	926276361 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Benzene	ug/l	0	50.00	49.00	49.02	98	98	0	
Chlorobenzene	ug/l	0	50.00	49.35	49.40	99	99	0	
1,1-Dichloroethene	ug/l	0	50.00	65.80	67.75	132	136	3	
Toluene	ug/l	0	50.00	46.70	47.46	93	95	2	
Trichloroethene	ug/l	0	50.00	45.19	46.58	90	93	3	
Toluene-d8 (S)						97	100		
4-Bromofluorobenzene (S)						97	99		
Dibromofluoromethane (S)						96	97		
1,2-Dichloroethane-d4 (S)						93	94		

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QUALITY CONTROL DATA

Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

QC Batch: 141476 — Analysis Method: EPA 7470
QC Batch Method: EPA 7470 — Analysis Description: Mercury, CVAAS, in Water
Associated Lab Samples: 926276361 926276379 926276387 926276395 926276403 926276411 926276445 926276452

METHOD BLANK: 926283417
Associated Lab Samples: 926276361 926276379 926276387 926276395 926276403 926276411 926276445 926276452

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Mercury	mg/l	ND	0.0002	

LABORATORY CONTROL SAMPLE: 926283425

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Mercury	mg/l	0.0025	0.0024	96	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 926283433 926283441

Parameter	Units	926277195 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Mercury	mg/l	0.00025	0.0025	0.0031	0.0029	114	107	6	

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QUALITY CONTROL DATA

Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

QC Batch: 141425 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: Metals by Trace ICP
Associated Lab Samples: 926276361 926276379 926276387 926276395 926276403 926276411

METHOD BLANK: 926281809
Associated Lab Samples: 926276361 926276379 926276387 926276395 926276403 926276411

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Antimony	mg/l	ND	0.0050	
Arsenic	mg/l	ND	0.0050	
Barium	mg/l	ND	0.0050	
Beryllium	mg/l	ND	0.0010	
Cadmium	mg/l	ND	0.0010	
Chromium	mg/l	ND	0.0020	
Cobalt	mg/l	ND	0.0050	
Copper	mg/l	ND	0.0020	
Lead	mg/l	ND	0.0050	
Nickel	mg/l	ND	0.0050	
Selenium	mg/l	ND	0.0050	
Silver	mg/l	ND	0.0020	
Tin	mg/l	ND	0.0050	
Vanadium	mg/l	ND	0.0050	
Zinc	mg/l	ND	0.010	

LABORATORY CONTROL SAMPLE: 926281817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Antimony	mg/l	0.5000	0.5130	103	
Arsenic	mg/l	0.5000	0.5060	101	
Barium	mg/l	0.5000	0.5100	102	
Beryllium	mg/l	0.5000	0.4990	100	
Cadmium	mg/l	0.5000	0.5020	100	
Chromium	mg/l	0.5000	0.5120	102	
Cobalt	mg/l	0.5000	0.5000	100	
Copper	mg/l	0.5000	0.5170	103	
Lead	mg/l	0.5000	0.5030	101	

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QUALITY CONTROL DATA

Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

LABORATORY CONTROL SAMPLE: 926281817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Nickel	mg/l	0.5000	0.5070	101	
Selenium	mg/l	0.5000	0.5000	100	
Silver	mg/l	0.5000	0.5050	101	
Tin	mg/l	0.5000	0.5040	101	
Vanadium	mg/l	0.5000	0.5020	100	
Zinc	mg/l	0.5000	0.5240	105	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 926281825 926281833

Parameter	Units	926276130 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Antimony	mg/l	0.00046	0.5000	0.5000	0.5320	100	106	6	
Arsenic	mg/l	0.00087	0.5000	0.4970	0.5270	99	105	6	
Barium	mg/l	0.03910	0.5000	0.5300	0.5670	98	106	7	
Beryllium	mg/l	0.00233	0.5000	0.4710	0.4880	94	97	4	
Cadmium	mg/l	0	0.5000	0.4690	0.4940	94	99	5	
Chromium	mg/l	0.00077	0.5000	0.4820	0.5070	96	101	5	
Cobalt	mg/l	0.00063	0.5000	0.4690	0.4930	94	98	5	
Copper	mg/l	0.00073	0.5000	0.5080	0.5420	102	108	6	
Lead	mg/l	0.00082	0.5000	0.4760	0.5000	95	100	5	
Nickel	mg/l	0.00315	0.5000	0.4700	0.4940	93	98	5	
Selenium	mg/l	0.00168	0.5000	0.4860	0.5120	97	102	5	
Silver	mg/l	0.00191	0.5000	0.4950	0.5260	99	105	6	
Tin	mg/l	0	0.5000	0.4770	0.5070	95	101	6	
Vanadium	mg/l	0.00118	0.5000	0.4820	0.5090	96	102	5	
Zinc	mg/l	0.02050	0.5000	0.5280	0.5510	102	106	4	

SAMPLE DUPLICATE: 926281841

Parameter	Units	926277195 Result	DUP Result	RPD	Footnotes
Antimony	mg/l	0.05200	0.04900	6	
Arsenic	mg/l	ND	ND	NC	
Barium	mg/l	0.03800	0.03800	1	
Beryllium	mg/l	ND	ND	NC	

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QUALITY CONTROL DATA

Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

SAMPLE DUPLICATE: 926281841

Parameter	Units	926277195 Result	DUP Result	RPD	Footnotes
Cadmium	mg/l	ND	ND	NC	
Chromium	mg/l	0.01300	0.01300	0	
Cobalt	mg/l	ND	ND	NC	
Copper	mg/l	0.05800	0.05800	0	
Lead	mg/l	0.00570	0.00610	7	
Nickel	mg/l	0.03800	0.03800	0	
Selenium	mg/l	0.00500	ND	NC	
Silver	mg/l	0.00390	0.00360	9	
Tin	mg/l	0.00880	0.00800	10	
Vanadium	mg/l	ND	ND	NC	
Zinc	mg/l	0.1700	0.1700	2	

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QUALITY CONTROL DATA

Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

QC Batch: 141499 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: Metals by Trace ICP
Associated Lab Samples: 926276445 926276452

METHOD BLANK: 926283938
Associated Lab Samples: 926276445 926276452

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Antimony	mg/l	ND	0.0050	
Arsenic	mg/l	ND	0.0050	
Barium	mg/l	ND	0.0050	
Beryllium	mg/l	ND	0.0010	
Cadmium	mg/l	ND	0.0010	
Chromium	mg/l	ND	0.0020	
Cobalt	mg/l	ND	0.0050	
Copper	mg/l	ND	0.0020	
Lead	mg/l	ND	0.0050	
Nickel	mg/l	ND	0.0050	
Selenium	mg/l	ND	0.0050	
Silver	mg/l	ND	0.0020	
Vanadium	mg/l	ND	0.0050	
Zinc	mg/l	ND	0.010	

LABORATORY CONTROL SAMPLE: 926283946

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Antimony	mg/l	0.5000	0.5140	103	
Arsenic	mg/l	0.5000	0.4960	99	
Barium	mg/l	0.5000	0.4890	98	
Beryllium	mg/l	0.5000	0.4830	97	
Cadmium	mg/l	0.5000	0.4870	97	
Chromium	mg/l	0.5000	0.4890	98	
Cobalt	mg/l	0.5000	0.4860	97	
Copper	mg/l	0.5000	0.5070	101	
Lead	mg/l	0.5000	0.4820	96	
Nickel	mg/l	0.5000	0.4920	98	
Selenium	mg/l	0.5000	0.4860	97	

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QUALITY CONTROL DATA

Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

LABORATORY CONTROL SAMPLE: 926283946

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Silver	mg/l	0.5000	0.4960	99	
Vanadium	mg/l	0.5000	0.4820	96	
Zinc	mg/l	0.5000	0.4970	99	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 926283953 926283961

Parameter	Units	926276155 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Antimony	mg/l	0.00470	0.5000	0.5190	0.5190	103	103	0	
Arsenic	mg/l	0	0.5000	0.4990	0.4970	100	99	0	
Barium	mg/l	0.00259	0.5000	0.5000	0.4950	100	98	1	
Beryllium	mg/l	0.00030	0.5000	0.4750	0.4750	95	95	0	
Cadmium	mg/l	0	0.5000	0.4850	0.4820	97	96	1	
Chromium	mg/l	0.01710	0.5000	0.5030	0.5010	97	97	0	
Cobalt	mg/l	0	0.5000	0.4890	0.4860	98	97	1	
Copper	mg/l	0.02910	0.5000	0.5510	0.5480	104	104	1	
Lead	mg/l	0	0.5000	0.4910	0.4880	98	98	1	
Nickel	mg/l	0.00577	0.5000	0.4960	0.4950	98	98	0	
Selenium	mg/l	0.00324	0.5000	0.4890	0.4910	97	98	0	
Silver	mg/l	0.00012	0.5000	0.5090	0.5020	102	100	1	
Vanadium	mg/l	0.00027	0.5000	0.4840	0.4800	97	96	1	
Zinc	mg/l	0.09990	0.5000	0.6010	0.5980	100	100	1	

SAMPLE DUPLICATE: 926283979

Parameter	Units	926276205 Result	DUP Result	RPD	Footnotes
Antimony	mg/l	ND	ND	NC	
Arsenic	mg/l	ND	ND	NC	
Barium	mg/l	0.05900	0.06300	6	
Beryllium	mg/l	ND	ND	NC	
Cadmium	mg/l	ND	ND	NC	
Chromium	mg/l	ND	ND	NC	
Cobalt	mg/l	ND	ND	NC	
Copper	mg/l	0.03600	0.03900	7	

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2225 Riverside Drive
Asheville, NC 28804
Phone: 828.254.7176
Fax: 828.252.4618

QUALITY CONTROL DATA

Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

SAMPLE DUPLICATE: 926283979

Parameter	Units	926276205 Result	DUP Result	RPD	Footnotes
Lead	mg/l	ND	ND	NC	
Nickel	mg/l	ND	ND	NC	
Selenium	mg/l	ND	0.00730	0	
Silver	mg/l	0.00570	0.00270	71	2
Vanadium	mg/l	ND	ND	NC	
Zinc	mg/l	0.2200	0.2300	8	

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QUALITY CONTROL DATA

Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

QC Batch: 141479 — Analysis Method: EPA 376.2
QC Batch Method: EPA 376.2 — Analysis Description: Sulfide, Total
Associated Lab Samples: 926276361 926276379 926276387 926276395 926276403 926276411 926276445 926276452

METHOD BLANK: 926283532
Associated Lab Samples: 926276361 926276379 926276387 926276395 926276403 926276411 926276445 926276452

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Sulfide	mg/l	0.069	0.050	

LABORATORY CONTROL SAMPLE: 926283540

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Sulfide	mg/l	0.5000	0.4480	90	

MATRIX SPIKE: 926283557

Parameter	Units	926272568 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Sulfide	mg/l	0.06400	0.5000	0.4210	71	3

SAMPLE DUPLICATE: 926283565

Parameter	Units	926272113 Result	DUP Result	RPD	Footnotes
Sulfide	mg/l	0.07000	0.06900	1	

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QUALITY CONTROL DATA

Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

QC Batch: 141404 Analysis Method: EPA 335.2
QC Batch Method: EPA 335.2 Analysis Description: Cyanide, Total, Water
Associated Lab Samples: 926276379 926276387 926276395

METHOD BLANK: 926281379
Associated Lab Samples: 926276379 926276387 926276395

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Cyanide	mg/l	ND	0.0050	

LABORATORY CONTROL SAMPLE: 926281387

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Cyanide	mg/l	0.1000	0.0950	95	

SAMPLE DUPLICATE: 926281403

Parameter	Units	926268368 Result	DUP Result	RPD	Footnotes
Cyanide	mg/l	ND	ND	NC	

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QUALITY CONTROL DATA

Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

QC Batch: 141541 — Analysis Method: EPA 335.2
QC Batch Method: EPA 335.2 — Analysis Description: Cyanide, Total, Water
Associated Lab Samples: 926276361 926276403 926276411 926276445 926276452

METHOD BLANK: 926286113
Associated Lab Samples: 926276361 926276403 926276411 926276445 926276452

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Cyanide	mg/l	ND	0.0050	

LABORATORY CONTROL SAMPLE: 926286121

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Cyanide	mg/l	0.1000	0.0910	91	

MATRIX SPIKE: 926286600

Parameter	Units	926285438 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Cyanide	mg/l	0.00100	0.1000	0.1200	119	

SAMPLE DUPLICATE: 926286618

Parameter	Units	926285479 Result	DUP Result	RPD	Footnotes
Cyanide	mg/l	ND	ND	NC	

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Lab Project Number: 92106344
Client Project ID: Jackson County LF 2040.12

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
(S)	Surrogate
[1]	The surrogate and/or spike recovery was outside acceptance limits.
[2]	The calculated RPD was outside QC acceptance limits.
[3]	The spike recovery was outside acceptance limits for the MS and /or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

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Page: of 892228

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Altamont Environmental	Report To: Jim McElduff	Attention:
Address: 50 College St.	Copy To: Evan Gerard	Company Name:
Asheville, NC 28803		Address:
Email To: [illegible]	Purchase Order No.: 2040.12	Pace Quote Reference:
Phone: 828-281-3350 Fax: 828-281-3351	Project Name: Jackson Co. LF	Pace Project Manager:
Requested Due Date/TAT: Standard	Project Number: 2040.12	Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☑ GROUND WATER ☑ DRINKING WATER ☐ UST ☐ RCRA ☐ Other_____

SITE LOCATION: ☐GA ☐IL ☐IN ☐MI ☐MN ☑NC ☐OH ☐SC ☐WI ☐OTHER _____

Section D Required Client Information

Valid Matrix Codes: MATRIX / CODE — DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / ,-) Samples IDs MUST BE UNIQUE)	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analyses Test								Residual Chlorine (Y/N)	Pace Project Number / Lab I.D
1	DW-01	DW	G	10-28	1010	10-28	1010	14.2	9	2		1	4	2				✓	✓	✓	✓	✓					92616361
2	MW-03	WT	G	10-27	1530	10-27	1530	15.9	9	2		1	4	2				✓	✓	✓	✓	✓					92616379
3	SW-01	WT	G	10-27	1445	10-27	1445	12.1	9	2		1	4	2				✓	✓	✓	✓	✓					92616387
4	MW-04	WT	G	10-27	1430	10-27	1430	15.0	9	2		1	4	2				✓	✓	✓	✓	✓					92616395
5	SW-02	WT	G	10-27	1345	10-27	1345	12.1	9	2		1	4	2				✓	✓	✓	✓	✓					92616403
6	MW-02	WT	G	10-27	1330	10-27	1330	14.2	9	2		1	4	2				✓	✓	✓	✓	✓					92616411
7	MW-06	WT	G	10-27	1130	10-27	1130	14.9	9	2		1	4	2				✓	✓	✓	✓	✓					92616445
8	MW-01	WT	G	10-27	1045	10-27	1045	14.1	9	2		1	4	2				✓	✓	✓	✓	✓					92616452
9	Trip Blank			10/27														✓									92616460
10	Trip Blank			10/28														✓									92616478
11																											
12																											

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Evan C. Gerard	10-28	11:42	[illegible]	10/28/05	1137

SAMPLE CONDITION

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
1.7	Y/N (Y)	Y/N (Y)	Y/N (Y)
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Evan Gerard

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 10-28-05

SEE REVERSE SIDE FOR INSTRUCTIONS

ALLQ020rev.3,31Mar05

Research & Analytical Laboratories, Inc.

Analytical/Process Consultations

RESEARCH & ANALYTICAL LABS
SIDNEY L. CHAMPION
NO 037701
DIRECTOR
CERTIFIED ANALYSIS

November 7, 2005

Pace Analytical Services, Inc.
2225 Riverside Drive
Asheville, NC 28804
Attention: Lorri Patton

Chemical Analysis for Selected Parameters for Samples Identified as 92106344
(A Pace Analytical Services, Inc. Project #92106344, collected 27 and 28 October 2005)

Sample Identification	RAL Sample#	Date Collected	Time (hrs)	Total Thallium (mg/l)
926276361 DW-01	547233	10/28/05	1010	<0.001
926276379 MW-03	547234	10/27/05	1530	<0.001
926276387 SW-01	547235	10/27/05	1445	<0.001
926276395 MW-04	547236	10/27/05	1430	<0.001
926276403 SW-02	547237	10/27/05	1345	<0.001
926276411 MW-02	547238	10/27/05	1330	<0.001
926276445 MW-06	547239	10/27/05	1130	<0.001
926276452 MW-01	547240	10/27/05	1045	<0.001

< = Less than or Below Detection Limit

mg/l = milligrams per liter = parts per million (ppm)

--- = Not Available

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November 16, 2005

RECEIVED
NOV 21 2005

Mr. Jim McElduff
Altamont Environmental
50 College Street
Asheville, NC 28801

RE: Lab Project Number: 92106633
Client Project ID: Jackson County LF 2040.12

Dear Mr. McElduff:

Enclosed are the analytical results for sample(s) received by the laboratory on November 2, 2005. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals Analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Charlotte laboratory unless otherwise footnoted.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Lorri Patton

Lorri Patton
lorri.patton@pacelabs.com
Project Manager

Enclosures

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Lab Project Number: 92106633
Client Project ID: Jackson County LF 2040.12

Lab Sample No: 926292871 | Project Sample Number: 92106633-001 | Date Collected: 11/02/05 10:00
Client Sample ID: DW-02 | Matrix: Water | Date Received: 11/02/05 13:44

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
Metals								
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010							
Antimony	ND	mg/l	0.0050	11/08/05 15:12	SAJ	7440-36-0		
Arsenic	ND	mg/l	0.0050	11/08/05 15:12	SAJ	7440-38-2		
Barium	0.0084	mg/l	0.0050	11/08/05 15:12	SAJ	7440-39-3		
Beryllium	ND	mg/l	0.0010	11/08/05 15:12	SAJ	7440-41-7		
Cadmium	ND	mg/l	0.0010	11/08/05 15:12	SAJ	7440-43-9		
Chromium	ND	mg/l	0.0020	11/08/05 15:12	SAJ	7440-47-3		
Cobalt	ND	mg/l	0.0050	11/08/05 15:12	SAJ	7440-48-4		
Copper	0.012	mg/l	0.0020	11/08/05 15:12	SAJ	7440-50-8		
Lead	ND	mg/l	0.0050	11/08/05 15:12	SAJ	7439-92-1		
Nickel	ND	mg/l	0.0050	11/08/05 15:12	SAJ	7440-02-0		
Selenium	ND	mg/l	0.0050	11/08/05 15:12	SAJ	7782-49-2		
Silver	ND	mg/l	0.0020	11/08/05 15:12	SAJ	7440-22-4		
Tin	ND	mg/l	0.0050	11/08/05 15:12	SAJ	7440-31-5		
Vanadium	ND	mg/l	0.0050	11/08/05 15:12	SAJ	7440-62-2		
Zinc	0.013	mg/l	0.010	11/08/05 15:12	SAJ	7440-66-6		
Date Digested	11/03/05 14:45			11/03/05 14:45				
Mercury, CVAAS, in Water	Method: EPA 7470							
Mercury	ND	mg/l	0.00020	11/04/05 02:01	ALV	7439-97-6		
Wet Chemistry								
Cyanide, Total, Water	Method: EPA 335.2							
Cyanide	ND	mg/l	0.0050	11/03/05 21:45	CD1	57-12-5		
Sulfide, Total	Method: EPA 376.2							
Sulfide	ND	mg/l	0.050	11/05/05 17:00	TCM			
GC Semivolatiles								
Chlorinated Acid Herbicides	Prep/Method: EPA 3510 / EPA 8151							
2,4-D	ND	ug/l	2.0	11/09/05 22:58	JEM	94-75-7		
Dinoseb	ND	ug/l	1.0	11/09/05 22:58	JEM	88-85-7		
2,4,5-T	ND	ug/l	2.0	11/09/05 22:58	JEM	93-76-5		
2,4,5-TP (Silvex)	ND	ug/l	2.0	11/09/05 22:58	JEM	93-72-1		
2,4-DCPA (S)	82	%		11/09/05 22:58	JEM	19719-28-9		
Date Extracted	11/07/05			11/07/05				

Date: 11/16/05

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Lab Project Number: 92106633
Client Project ID: Jackson County LF 2040.12

Lab Sample No: 926292871 | Project Sample Number: 92106633-001 | Date Collected: 11/02/05 10:00
Client Sample ID: DW-02 | Matrix: Water | Date Received: 11/02/05 13:44

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA 8260							
Acetone	ND	ug/l	25.	11/10/05 07:44	DLK	67-64-1		
Acetonitrile	ND	ug/l	50.	11/10/05 07:44	DLK	75-05-8		
Acrolein	ND	ug/l	25.	11/10/05 07:44	DLK	107-02-8		
Acrylonitrile	ND	ug/l	25.	11/10/05 07:44	DLK	107-13-1		
Allyl chloride	ND	ug/l	50.	11/10/05 07:44	DLK	107-05-1		
Benzene	ND	ug/l	5.0	11/10/05 07:44	DLK	71-43-2		
Bromochloromethane	ND	ug/l	5.0	11/10/05 07:44	DLK	74-97-5		
Bromodichloromethane	ND	ug/l	5.0	11/10/05 07:44	DLK	75-27-4		
Bromoform	ND	ug/l	5.0	11/10/05 07:44	DLK	75-25-2		
Bromomethane	ND	ug/l	5.0	11/10/05 07:44	DLK	74-83-9		
2-Butanone (MEK)	ND	ug/l	10.	11/10/05 07:44	DLK	78-93-3		
n-Butylbenzene	ND	ug/l	5.0	11/10/05 07:44	DLK	104-51-8		
Carbon disulfide	ND	ug/l	10.	11/10/05 07:44	DLK	75-15-0		
Carbon tetrachloride	ND	ug/l	5.0	11/10/05 07:44	DLK	56-23-5		
Chlorobenzene	ND	ug/l	5.0	11/10/05 07:44	DLK	108-90-7		
Chloroethane	ND	ug/l	10.	11/10/05 07:44	DLK	75-00-3		
Chloroform	ND	ug/l	5.0	11/10/05 07:44	DLK	67-66-3		
Chloromethane	ND	ug/l	5.0	11/10/05 07:44	DLK	74-87-3		
Chloroprene	ND	ug/l	5.0	11/10/05 07:44	DLK	126-99-8		
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0	11/10/05 07:44	DLK	96-12-8		
Dibromochloromethane	ND	ug/l	5.0	11/10/05 07:44	DLK	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/l	5.0	11/10/05 07:44	DLK	106-93-4		
Dibromomethane	ND	ug/l	5.0	11/10/05 07:44	DLK	74-95-3		
1,2-Dichlorobenzene	ND	ug/l	5.0	11/10/05 07:44	DLK	95-50-1		
1,3-Dichlorobenzene	ND	ug/l	5.0	11/10/05 07:44	DLK	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	5.0	11/10/05 07:44	DLK	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0	11/10/05 07:44	DLK	110-57-6		
Dichlorodifluoromethane	ND	ug/l	5.0	11/10/05 07:44	DLK	75-71-8		
1,1-Dichloroethane	ND	ug/l	5.0	11/10/05 07:44	DLK	75-34-3		
1,2-Dichloroethane	ND	ug/l	5.0	11/10/05 07:44	DLK	107-06-2		
1,1-Dichloroethene	ND	ug/l	5.0	11/10/05 07:44	DLK	75-35-4		
cis-1,2-Dichloroethene	ND	ug/l	5.0	11/10/05 07:44	DLK	156-59-2		
trans-1,2-Dichloroethene	ND	ug/l	5.0	11/10/05 07:44	DLK	156-60-5		
1,2-Dichloropropane	ND	ug/l	5.0	11/10/05 07:44	DLK	78-87-5		
1,3-Dichloropropane	ND	ug/l	5.0	11/10/05 07:44	DLK	142-28-9		
2,2-Dichloropropane	ND	ug/l	5.0	11/10/05 07:44	DLK	594-20-7		
1,1-Dichloropropene	ND	ug/l	5.0	11/10/05 07:44	DLK	563-58-6		

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Lab Project Number: 92106633
Client Project ID: Jackson County LF 2040.12

Lab Sample No: 926292871 | Project Sample Number: 92106633-001 | Date Collected: 11/02/05 10:00
Client Sample ID: DW-02 | Matrix: Water | Date Received: 11/02/05 13:44

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
cis-1,3-Dichloropropene	ND	ug/l	5.0	11/10/05 07:44	DLK	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/l	5.0	11/10/05 07:44	DLK	10061-02-6		
Ethylbenzene	ND	ug/l	5.0	11/10/05 07:44	DLK	100-41-4		
Ethyl methacrylate	ND	ug/l	5.0	11/10/05 07:44	DLK	97-63-2		
2-Hexanone	ND	ug/l	10.	11/10/05 07:44	DLK	591-78-6		
Iodomethane	ND	ug/l	10.	11/10/05 07:44	DLK	74-88-4		
Isobutanol	ND	ug/l	100	11/10/05 07:44	DLK	78-83-1		
Methacrylonitrile	ND	ug/l	50.	11/10/05 07:44	DLK	126-98-7		
Methylene chloride	ND	ug/l	5.0	11/10/05 07:44	DLK	75-09-2		
Methyl methacrylate	ND	ug/l	5.0	11/10/05 07:44	DLK	80-62-6		
4-Methyl-2-pentanone (MIBK)	ND	ug/l	10.	11/10/05 07:44	DLK	108-10-1		
Naphthalene	ND	ug/l	5.0	11/10/05 07:44	DLK	91-20-3		
Propionitrile	ND	ug/l	50.	11/10/05 07:44	DLK	107-12-0		
Styrene	ND	ug/l	5.0	11/10/05 07:44	DLK	100-42-5		
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0	11/10/05 07:44	DLK	630-20-6		
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0	11/10/05 07:44	DLK	79-34-5		
Tetrachloroethene	ND	ug/l	5.0	11/10/05 07:44	DLK	127-18-4		
Toluene	ND	ug/l	5.0	11/10/05 07:44	DLK	108-88-3		
1,1,1-Trichloroethane	ND	ug/l	5.0	11/10/05 07:44	DLK	71-55-6		
1,1,2-Trichloroethane	ND	ug/l	5.0	11/10/05 07:44	DLK	79-00-5		
Trichloroethene	ND	ug/l	5.0	11/10/05 07:44	DLK	79-01-6		
Trichlorofluoromethane	ND	ug/l	10.	11/10/05 07:44	DLK	75-69-4		
1,2,3-Trichloropropane	ND	ug/l	5.0	11/10/05 07:44	DLK	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/l	5.0	11/10/05 07:44	DLK	76-13-1		
Vinyl acetate	ND	ug/l	10.	11/10/05 07:44	DLK	108-05-4		
Vinyl chloride	ND	ug/l	5.0	11/10/05 07:44	DLK	75-01-4		
Xylene (Total)	ND	ug/l	5.0	11/10/05 07:44	DLK	1330-20-7		
m&p-Xylene	ND	ug/l	10.	11/10/05 07:44	DLK			
o-Xylene	ND	ug/l	5.0	11/10/05 07:44	DLK	95-47-6		
Toluene-d8 (S)	97	%		11/10/05 07:44	DLK	2037-26-5		
4-Bromofluorobenzene (S)	80	%		11/10/05 07:44	DLK	460-00-4		
Dibromofluoromethane (S)	108	%		11/10/05 07:44	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	104	%		11/10/05 07:44	DLK	17060-07-0		

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Lab Project Number: 92106633
Client Project ID: Jackson County LF 2040.12

PARAMETER FOOTNOTES

Method 9071B modified to use ASE.

All pH, Free Chlorine, Total Chlorine and Ferrous Iron analyses conducted outside of EPA recommended immediate hold time.

Depending on the moisture content the PRLs can be elevated for all soil samples reported on a dry weight basis.

2-Chloroethyl vinyl ether has been shown to degrade in the presence of acid.

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
(S)	Surrogate

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QUALITY CONTROL DATA

Lab Project Number: 92106633
Client Project ID: Jackson County LF 2040.12

QC Batch: 141781
QC Batch Method: EPA 3510
Associated Lab Samples: 926292871

Analysis Method: EPA 8151
Analysis Description: Chlorinated Acid Herbicides

METHOD BLANK: 926310863
Associated Lab Samples: 926292871

Parameter	Units	Blank Result	Reporting Limit	Footnotes
2,4-D	ug/l	ND	2.0	
Dinoseb	ug/l	ND	1.0	
2,4,5-T	ug/l	ND	2.0	
2,4,5-TP (Silvex)	ug/l	ND	2.0	
2,4-DCPA (S)	%	96		

LABORATORY CONTROL SAMPLE: 926298779

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
2,4-D	ug/l	5.000	3.672	73	
2,4,5-TP (Silvex)	ug/l	5.000	4.399	88	
2,4,5-T	ug/l	5.000	3.875	78	
Dinoseb	ug/l	5.000	1.151	23	
2,4-DCPA (S)				74	

LABORATORY CONTROL SAMPLE: 926310871

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
2,4-D	ug/l	5.000	4.348	87	
2,4,5-TP (Silvex)	ug/l	5.000	5.158	103	
2,4,5-T	ug/l	5.000	4.805	96	
Dinoseb	ug/l	5.000	3.301	66	
2,4-DCPA (S)				87	

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QUALITY CONTROL DATA

Lab Project Number: 92106633
Client Project ID: Jackson County LF 2040.12

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 926299116 926299124

Parameter	Units	926276411 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
2,4-D	ug/l	0	5.000	2.706	2.964	54	59	9	
2,4,5-TP (Silvex)	ug/l	0	5.000	2.950	3.943	59	79	29	
2,4,5-T	ug/l	0	5.000	2.847	3.385	57	68	17	1,1
Dinoseb	ug/l	0	5.000	1.936	2.406	39	48	22	
2,4-DCPA (S)						54	73		

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QUALITY CONTROL DATA

Lab Project Number: 92106633
Client Project ID: Jackson County LF 2040.12

QC Batch: 142274
QC Batch Method: EPA 8260
Associated Lab Samples: 926292871

Analysis Method: EPA 8260
Analysis Description: GC/MS VOCs by 8260

METHOD BLANK: 926320102
Associated Lab Samples: 926292871

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Acetone	ug/l	ND	25.	
Acetonitrile	ug/l	ND	50.	
Acrolein	ug/l	ND	25.	
Acrylonitrile	ug/l	ND	25.	
Allyl chloride	ug/l	ND	50.	
Benzene	ug/l	ND	5.0	
Bromochloromethane	ug/l	ND	5.0	
Bromodichloromethane	ug/l	ND	5.0	
Bromoform	ug/l	ND	5.0	
Bromomethane	ug/l	ND	5.0	
2-Butanone (MEK)	ug/l	ND	10.	
n-Butylbenzene	ug/l	ND	5.0	
Carbon disulfide	ug/l	ND	10.	
Carbon tetrachloride	ug/l	ND	5.0	
Chlorobenzene	ug/l	ND	5.0	
Chloroethane	ug/l	ND	10.	
Chloroform	ug/l	ND	5.0	
Chloromethane	ug/l	ND	5.0	
Chloroprene	ug/l	ND	5.0	
1,2-Dibromo-3-chloropropane	ug/l	ND	5.0	
Dibromochloromethane	ug/l	ND	5.0	
1,2-Dibromoethane (EDB)	ug/l	ND	5.0	
Dibromomethane	ug/l	ND	5.0	
1,2-Dichlorobenzene	ug/l	ND	5.0	
1,3-Dichlorobenzene	ug/l	ND	5.0	
1,4-Dichlorobenzene	ug/l	ND	5.0	
trans-1,4-Dichloro-2-butene	ug/l	ND	5.0	
Dichlorodifluoromethane	ug/l	ND	5.0	
1,1-Dichloroethane	ug/l	ND	5.0	
1,2-Dichloroethane	ug/l	ND	5.0	
1,1-Dichloroethene	ug/l	ND	5.0	

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QUALITY CONTROL DATA

Lab Project Number: 92106633
Client Project ID: Jackson County LF 2040.12

METHOD BLANK: 926320102
Associated Lab Samples: 926292871

Parameter	Units	Blank Result	Reporting Limit	Footnotes
cis-1,2-Dichloroethene	ug/l	ND	5.0	
trans-1,2-Dichloroethene	ug/l	ND	5.0	
1,2-Dichloropropane	ug/l	ND	5.0	
1,3-Dichloropropane	ug/l	ND	5.0	
2,2-Dichloropropane	ug/l	ND	5.0	
1,1-Dichloropropene	ug/l	ND	5.0	
cis-1,3-Dichloropropene	ug/l	ND	5.0	
trans-1,3-Dichloropropene	ug/l	ND	5.0	
Ethylbenzene	ug/l	ND	5.0	
Ethyl methacrylate	ug/l	ND	5.0	
2-Hexanone	ug/l	ND	10.	
Iodomethane	ug/l	ND	10.	
Isobutanol	ug/l	ND	100	
Methacrylonitrile	ug/l	ND	50.	
Methylene chloride	ug/l	ND	5.0	
Methyl methacrylate	ug/l	ND	5.0	
4-Methyl-2-pentanone (MIBK)	ug/l	ND	10.	
Naphthalene	ug/l	ND	5.0	
Propionitrile	ug/l	ND	50.	
Styrene	ug/l	ND	5.0	
1,1,1,2-Tetrachloroethane	ug/l	ND	5.0	
1,1,2,2-Tetrachloroethane	ug/l	ND	5.0	
Tetrachloroethene	ug/l	ND	5.0	
Toluene	ug/l	ND	5.0	
1,1,1-Trichloroethane	ug/l	ND	5.0	
1,1,2-Trichloroethane	ug/l	ND	5.0	
Trichloroethene	ug/l	ND	5.0	
Trichlorofluoromethane	ug/l	ND	10.	
1,2,3-Trichloropropane	ug/l	ND	5.0	
1,1,2-Trichlorotrifluoroethane	ug/l	ND	5.0	
Vinyl acetate	ug/l	ND	10.	
Vinyl chloride	ug/l	ND	5.0	
Xylene (Total)	ug/l	ND	5.0	
m&p-Xylene	ug/l	ND	10.	
o-Xylene	ug/l	ND	5.0	
Toluene-d8 (S)	%	95		

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QUALITY CONTROL DATA

Lab Project Number: 92106633
Client Project ID: Jackson County LF 2040.12

METHOD BLANK: 926320102
Associated Lab Samples: 926292871

Parameter	Units	Blank Result	Reporting Limit	Footnotes
4-Bromofluorobenzene (S)	%	79		
Dibromofluoromethane (S)	%	101		
1,2-Dichloroethane-d4 (S)	%	92		

LABORATORY CONTROL SAMPLE: 926320110

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Acetone	ug/l	100.00	96.28	96	
Acrolein	ug/l	250.00	306.7	123	
Acrylonitrile	ug/l	250.00	266.8	107	
Benzene	ug/l	50.00	54.65	109	
Bromochloromethane	ug/l	50.00	55.24	110	
Bromodichloromethane	ug/l	50.00	49.55	99	
Bromoform	ug/l	50.00	40.11	80	
Bromomethane	ug/l	50.00	65.84	132	
2-Butanone (MEK)	ug/l	100.00	98.02	98	
n-Butylbenzene	ug/l	50.00	46.15	92	
Carbon disulfide	ug/l	100.00	104.6	105	
Carbon tetrachloride	ug/l	50.00	54.60	109	
Chlorobenzene	ug/l	50.00	48.57	97	
Chloroethane	ug/l	50.00	56.40	113	
Chloroform	ug/l	50.00	56.55	113	
Chloromethane	ug/l	50.00	47.30	95	
1,2-Dibromo-3-chloropropane	ug/l	50.00	42.20	84	
Dibromochloromethane	ug/l	50.00	49.90	100	
1,2-Dibromoethane (EDB)	ug/l	50.00	54.13	108	
Dibromomethane	ug/l	50.00	46.98	94	
1,2-Dichlorobenzene	ug/l	50.00	47.80	96	
1,3-Dichlorobenzene	ug/l	50.00	48.35	97	
1,4-Dichlorobenzene	ug/l	50.00	46.39	93	
trans-1,4-Dichloro-2-butene	ug/l	50.00	40.76	82	
Dichlorodifluoromethane	ug/l	50.00	49.50	99	
1,1-Dichloroethane	ug/l	50.00	55.73	111	
1,2-Dichloroethane	ug/l	50.00	51.96	104	

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QUALITY CONTROL DATA

Lab Project Number: 92106633
Client Project ID: Jackson County LF 2040.12

LABORATORY CONTROL SAMPLE: 926320110

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
1,1-Dichloroethene	ug/l	50.00	67.75	136	
cis-1,2-Dichloroethene	ug/l	50.00	54.32	109	
trans-1,2-Dichloroethene	ug/l	50.00	58.99	118	
1,2-Dichloropropane	ug/l	50.00	55.18	110	
1,3-Dichloropropane	ug/l	50.00	56.48	113	
2,2-Dichloropropane	ug/l	50.00	52.95	106	
1,1-Dichloropropene	ug/l	50.00	59.54	119	
cis-1,3-Dichloropropene	ug/l	50.00	53.45	107	
trans-1,3-Dichloropropene	ug/l	50.00	46.21	92	
Ethylbenzene	ug/l	50.00	45.32	91	
2-Hexanone	ug/l	100.00	106.8	107	
Iodomethane	ug/l	100.00	113.5	114	
Methylene chloride	ug/l	50.00	60.14	120	
4-Methyl-2-pentanone (MIBK)	ug/l	100.00	100.5	101	
Naphthalene	ug/l	50.00	45.42	91	
Styrene	ug/l	50.00	42.94	86	
1,1,1,2-Tetrachloroethane	ug/l	50.00	47.83	96	
1,1,2,2-Tetrachloroethane	ug/l	50.00	38.59	77	
Tetrachloroethene	ug/l	50.00	47.11	94	
Toluene	ug/l	50.00	47.22	94	
1,1,1-Trichloroethane	ug/l	50.00	52.87	106	
1,1,2-Trichloroethane	ug/l	50.00	49.04	98	
Trichloroethene	ug/l	50.00	50.79	102	
Trichlorofluoromethane	ug/l	50.00	58.19	116	
1,2,3-Trichloropropane	ug/l	50.00	42.53	85	
1,1,2-Trichlorotrifluoroethane	ug/l	50.00	49.94	100	
Vinyl acetate	ug/l	100.00	136.4	136	
Vinyl chloride	ug/l	50.00	53.82	108	
Xylene (Total)	ug/l	150.00	136.7	91	
m&p-Xylene	ug/l	100.00	92.93	93	
o-Xylene	ug/l	50.00	43.73	88	
Toluene-d8 (S)				96	
4-Bromofluorobenzene (S)				81	
Dibromofluoromethane (S)				97	
1,2-Dichloroethane-d4 (S)				93	

Date: 11/16/05

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QUALITY CONTROL DATA

Lab Project Number: 92106633
Client Project ID: Jackson County LF 2040.12

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 926320128 926320136

Parameter	Units	926307067 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Benzene	ug/l	0	50.00	53.23	53.00	106	106	0	
Chlorobenzene	ug/l	0	50.00	48.87	48.25	98	96	1	
1,1-Dichloroethene	ug/l	0	50.00	74.21	73.90	148	148	0	2,2
Toluene	ug/l	0	50.00	47.94	47.37	96	95	1	
Trichloroethene	ug/l	0	50.00	47.57	47.71	95	95	0	
Toluene-d8 (S)						92	92		
4-Bromofluorobenzene (S)						77	76		
Dibromofluoromethane (S)						111	111		
1,2-Dichloroethane-d4 (S)						103	100		

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QUALITY CONTROL DATA

Lab Project Number: 92106633
Client Project ID: Jackson County LF 2040.12

QC Batch: 141842
QC Batch Method: EPA 7470
Associated Lab Samples: 926292871

Analysis Method: EPA 7470
Analysis Description: Mercury, CVAAS, in Water

METHOD BLANK: 926302399
Associated Lab Samples: 926292871

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Mercury	mg/l	ND	0.0002	

LABORATORY CONTROL SAMPLE: 926302407

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Mercury	mg/l	0.0025	0.0026	106	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 926302415 926302423

Parameter	Units	926282211 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Mercury	mg/l	0	0.0025	0.0024	0.0026	96	102	6	

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Fax: 828.252.4618

QUALITY CONTROL DATA

Lab Project Number: 92106633
Client Project ID: Jackson County LF 2040.12

QC Batch: 141715
QC Batch Method: EPA 3010
Associated Lab Samples: 926292871

Analysis Method: EPA 6010
Analysis Description: Metals by Trace ICP

METHOD BLANK: 926295908
Associated Lab Samples: 926292871

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Antimony	mg/l	ND	0.0050	
Arsenic	mg/l	ND	0.0050	
Barium	mg/l	ND	0.0050	
Beryllium	mg/l	ND	0.0010	
Cadmium	mg/l	ND	0.0010	
Chromium	mg/l	ND	0.0020	
Cobalt	mg/l	ND	0.0050	
Copper	mg/l	ND	0.0020	
Lead	mg/l	ND	0.0050	
Nickel	mg/l	ND	0.0050	
Selenium	mg/l	ND	0.0050	
Silver	mg/l	ND	0.0020	
Tin	mg/l	ND	0.0050	
Vanadium	mg/l	ND	0.0050	
Zinc	mg/l	ND	0.010	

LABORATORY CONTROL SAMPLE: 926295916

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Antimony	mg/l	0.5000	0.4790	96	
Arsenic	mg/l	0.5000	0.4780	96	
Barium	mg/l	0.5000	0.4790	96	
Beryllium	mg/l	0.5000	0.4720	94	
Cadmium	mg/l	0.5000	0.4780	96	
Chromium	mg/l	0.5000	0.4780	96	
Cobalt	mg/l	0.5000	0.4770	95	
Copper	mg/l	0.5000	0.4780	96	
Lead	mg/l	0.5000	0.4900	98	
Nickel	mg/l	0.5000	0.4770	95	

Asheville Certification IDs
NC Wastewater 40
NC Drinking Water 37712
SC 99030
FL NELAP E87648

REPORT OF LABORATORY ANALYSIS
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NC Drinking Water 37706
SC 99006
FL NELAP E87627

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Pace Analytical Services, Inc.
2225 Riverside Drive
Asheville, NC 28804
Phone: 828.254.7176
Fax: 828.252.4618

QUALITY CONTROL DATA

Lab Project Number: 92106633
Client Project ID: Jackson County LF 2040.12

LABORATORY CONTROL SAMPLE: 926295916

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Selenium	mg/l	0.5000	0.4750	95	
Silver	mg/l	0.5000	0.4720	94	
Tin	mg/l	0.5000	0.4740	95	
Vanadium	mg/l	0.5000	0.4730	95	
Zinc	mg/l	0.5000	0.4800	96	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 926295924 926295932

Parameter	Units	926289711 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Antimony	mg/l	0.00637	0.5000	0.4630	0.4590	91	90	1	
Arsenic	mg/l	0.00596	0.5000	0.4570	0.4550	90	90	0	2
Barium	mg/l	0.1710	0.5000	0.4550	0.6220	57	90	31	3
Beryllium	mg/l	0.00042	0.5000	0.4500	0.4500	90	90	0	
Cadmium	mg/l	0	0.5000	0.4490	0.4480	90	90	0	
Chromium	mg/l	0.00196	0.5000	0.4540	0.4550	90	91	0	
Cobalt	mg/l	0.00035	0.5000	0.4540	0.4530	91	90	0	
Copper	mg/l	0.07840	0.5000	0.5180	0.5180	88	88	0	
Lead	mg/l	0.02900	0.5000	0.4940	0.4910	93	92	1	
Nickel	mg/l	0.00307	0.5000	0.4530	0.4520	90	90	0	
Selenium	mg/l	0.00055	0.5000	0.4700	0.4690	94	94	0	
Silver	mg/l	0	0.5000	0.4600	0.4620	92	92	0	
Tin	mg/l	0	0.5000	0.4500	0.4490	90	90	0	
Vanadium	mg/l	0.01840	0.5000	0.4670	0.4680	90	90	0	
Zinc	mg/l	0.1190	0.5000	0.5130	0.5100	79	78	1	2,2

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Fax: 828.252.4618

QUALITY CONTROL DATA

Lab Project Number: 92106633
Client Project ID: Jackson County LF 2040.12

QC Batch: 141956
QC Batch Method: EPA 376.2
Associated Lab Samples: 926292871

Analysis Method: EPA 376.2
Analysis Description: Sulfide, Total

METHOD BLANK: 926308339
Associated Lab Samples: 926292871

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Sulfide	mg/l	ND	0.050	

LABORATORY CONTROL SAMPLE: 926308347

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Sulfide	mg/l	0.5000	0.5430	109	

MATRIX SPIKE: 926308354

Parameter	Units	926284167 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Sulfide	mg/l	0.01400	0.5000	0.5170	101	

SAMPLE DUPLICATE: 926308362

Parameter	Units	926284183 Result	DUP Result	RPD	Footnotes
Sulfide	mg/l	ND	ND	NC	

Date: 11/16/05

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QUALITY CONTROL DATA

Lab Project Number: 92106633
Client Project ID: Jackson County LF 2040.12

QC Batch: 141770
QC Batch Method: EPA 335.2
Associated Lab Samples: 926292871

Analysis Method: EPA 335.2
Analysis Description: Cyanide, Total, Water

METHOD BLANK: 926298506
Associated Lab Samples: 926292871

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Cyanide	mg/l	ND	0.0050	

LABORATORY CONTROL SAMPLE: 926298514

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Cyanide	mg/l	0.1000	0.0920	92	

MATRIX SPIKE: 926301649

Parameter	Units	926285560 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Cyanide	mg/l	0.00500	0.1000	0.1300	125	

SAMPLE DUPLICATE: 926301656

Parameter	Units	926291345 Result	DUP Result	RPD	Footnotes
Cyanide	mg/l	ND	ND	NC	

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Lab Project Number: 92106633
Client Project ID: Jackson County LF 2040.12

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
(S)	Surrogate
[1]	The surrogate and/or spike recovery was outside acceptance limits.
[2]	The spike recovery was outside acceptance limits for the MS and /or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
[3]	The calculated RPD was outside QC acceptance limits.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of 892229

Section A
Required Client Information:

Company: Altamont Environmental
Address: 10 College St.
Asheville NC 28801
Email To:
Phone: Fax: 828-281-3351
Requested Due Date/TAT:

Section B
Required Project Information:

Report To: Jim McElwee
Copy To: Evan Coward
Purchase Order No.:
Project Name: Jackson G. LF
Project Number: 2040.12

Section C
Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: LJP
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☑ DRINKING WATER ☐ UST ☐ RCRA ☐ Other

SITE LOCATION: ☐ GA ☐ IL ☐ IN ☐ MI ☐ MN ☑ NC ☐ OH ☐ SC ☐ WI ☐ OTHER

Section D
Required Client Information

SAMPLE ID

One Character per box. (A-Z, 0-9 / .-) Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: 4SC6	Residual Chlorine (Y/N)	Pace Project Number / Lab I.D
1	DW-02	DW	G	11-2-05	10:00	11-2-05	10:00	14.6	9			1	4	2					Acid Pest 608, Acid Pest 608 Industrial, Sulfide, Cyanide, 375.4		92106633 / 926292871
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Additional Comments:

RELINQUISHED BY	AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITION
Evan Coward		11-2	13:43	[signature]	11/2/05	1344	14.3

SAMPLE CONDITION: Temp in °C; Received on Ice (Y/N); Custody Sealed Cooler (Y/N); Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Evan Coward

Research & Analytical Laboratories, Inc.

Analytical/Process Consultations

RESEARCH & ANALYTICAL LABS. SIDNEY L. CHAMPION NC #37701 DIRECTOR CERTIFIED ANALYSIS

November 11, 2005

Pace Analytical Services, Inc.
2225 Riverside Drive
Asheville, NC 28804
Attention: Lorri Patton

Chemical Analysis for Selected Parameters for Samples Identified as 92106633
(A Pace Analytical Services, Inc. Project #92106633, collected 02 November 2005)

Sample Identification	RAL Sample#	Date Collected	Time (hrs)	Total Thallium (mg/l)
926292871 DW-02	547722	11/02/05	1000	<0.001

< = Less than or Below Detection Limit

mg/l = milligrams per liter = parts per million (ppm)

---- = Not Available

APPENDIX C

SUMMARY OF T-TEST STATISTICAL ANALYSES

Appendix C
Summary of T-Test Results
Jackson County MSWLF
Jackson County, North Carolina

October 27, 2005

Compound	NC 2L Standard	Significantly Greater than the Groundwater Standard
Metals		
Antimony	0.006	none
Barium	2.0	none
Chromium	0.05	none
Cobalt	NL	NA
Copper	1.0	none
Lead	0.015	none
Mercury	0.00105	none
Nickel	0.1	none
Vanadium	NL	NA
Zinc	1.05	none
VOCs		
1,1-Dichloroethane	0.7	none
1,4-Dichlorobenzene	0.0014	**MW-1, MW-3, MW-4, MW-6** [4]
Benzene	0.001	**MW-1** [5]
Chlorobenzene	0.05	none
cis-1,2-Dichloroethene	0.07	none
Methylene Chloride	0.0046	**MW-1** [6]
Xylenes (Total)	0.53	none

Notes:
1. All concentrations are in milligrams per liter (mg/L).
2. NL means not listed in the NC 2L Standards or EPA's Safe Drinking Water maximum contamination level (MCL) tables.
3. NA means not applicable.
4. T-test for 1,4-Dichlorobenzene is not valid for MW-2 since sample set contains non-detect values and the detection limit is greater than the groundwater standard.
5. T-test for benzene is not valid for MW-2, MW-3, MW-4, and MW-6 since sample set contains non-detect values and the detection limit is greater than the groundwater standard.
6. Methylene chloride has only been detected once in the last 12 sampling events in MW-1 (Spring 2002).