DENR USE ONLY: ☐ Paper Report ☐ Electronic Data - Email CD (data loaded: Yes / No) Doc/Event #:

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- In accordance with NC General Statutes Chapter 89C and 89E and NC Solid Waste Management Rules 15A NCAC 13B, be sure to affix a seal to the bottom of this page, when applicable.
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

Altamont Environmental, Inc.

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Jon Hazinski Phone: (828) 281-3350

E-mail: jhazinski@altamontenvironmental.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Madison County Subtitle D Municipal Solid Waste Landfill	271 Craig Rudisill Road Marshall, NC 28753	58-03	.1600	October 10-11, 2007

Environmental Status: (Check all that apply)

☐ Initial/Background Monitoring ☒ Detection Monitoring ☐ Assessment Monitoring ☐ Corrective Action

Type of data submitted: (Check all that apply)

☒ Groundwater monitoring data from monitoring wells
☐ Groundwater monitoring data from private water supply wells
☒ Leachate monitoring data
☒ Surface water monitoring data
☐ Methane gas monitoring data
☐ Corrective action data (specify) _____
☐ Other(specify)

Notification attached?

☐ No. No groundwater or surface water standards were exceeded.
☒ Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
☐ Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

JOEL D. LENK P.G.

Facility Representative Name (Print) Title (Area Code) Telephone Number

Signature 12/28/07 Date

Affix NC Licensed/ Professional Geologist/Engineer Seal here:

NORTH CAROLINA LICENSED SEAL 2044 GEOLOGIST JOEL D. LENK

Revised 01/2007

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FALL 2007 SEMIANNUAL WATER QUALITY MONITORING REPORT

MADISON COUNTY
OPERATING MUNICIPAL SOLID WASTE LANDFILL
MADISON COUNTY, NORTH CAROLINA
PERMIT # 58-03

Prepared for
Madison County, North Carolina

December 28, 2007

Prepared by
Altamont Environmental, Inc.
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1.0 INTRODUCTION

The Madison County Solid Waste Department operates a Subtitle D Municipal Solid Waste Landfill (landfill) located on Craig Rudisill Road near U.S. Highway 25/70. The approximate location of the landfill is shown in Figure 1. The landfill is governed by the North Carolina Department of Environment and Natural Resources (DENR), Division of Waste Management (DWM), Permit No. 58-03 (Operating Landfill) issued to Madison County. 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 2007 and is being submitted in accordance with requirements stipulated in the North Carolina DENR Solid Waste Management Rules 15A North Carolina Administrative Code (NCAC) 13B. This semiannual report provides an evaluation of surface water, leachate, and groundwater quality for the Operating Landfill. A statistical analysis of groundwater data, and generalized direction of groundwater flow is also provided.

This report contains the following items:

- Groundwater level measurements and corresponding groundwater elevations;
- An illustration of groundwater and surface water sampling locations;
- Generalized groundwater flow direction map;
- Groundwater, leachate, and surface water quality analytical results;
- Statistical analyses for detected metals (Volatile organic compounds (VOCs) have not been detected in groundwater);
- Sampling logs; and
- Laboratory analytical reports and chain-of-custody forms.

2.0 METHODS

2.1 GROUNDWATER AND SURFACE WATER SAMPLING

Groundwater monitoring wells, surface water sample locations, and the lined leachate basin were sampled at the landfill by Altamont Environmental, Inc. (Altamont) on October 10 and 11, 2007. Sampling locations are shown on Figure 2.

Prior to collecting groundwater samples from the monitoring wells, the static water level and total depth of each well was measured. As part of the groundwater sampling event, an initial round of field parameters consisting of pH, specific conductivity, dissolved oxygen, turbidity and temperature were also collected. Water level measurements and field parameters are included in Table 1. Groundwater sampling points were then purged with a disposable bailer until dry, or a minimum of three well volumes of groundwater was removed. As each consecutive well volume was removed with the bailer, an additional round of groundwater parameters was recorded. Groundwater parameters were measured until pH, specific conductivity, and temperature readings each stabilized to within ten percent of the previous reading.

Surface water samples SW-01 and SW-02R were collected at designated locations from the un-named stream flowing adjacent to the landfill. The SW-01 sample represents surface water quality upstream of the landfill and the SW-02R sample represents surface water quality downstream from the landfill. One round of field parameters, consisting of: temperature, pH, specific conductivity, dissolved oxygen, and turbidity were measured and recorded at each surface water sampling location (see Table 1).

Field parameters and additional observations pertaining to the Operating Landfill sampling locations are provided on sampling logs, which are included as Appendix A. Following sample collection groundwater and surface water samples were immediately placed on ice in sample coolers for transport to Pace Analytical Laboratories (Pace), a North Carolina certified laboratory located in Asheville, North Carolina. All samples were analyzed for Appendix I volatile organic compounds (VOCs) using US EPA Method 8260, and Appendix I metals using US EPA Methods 6010 and 7470. Proper chain-of-custody

documentation was followed during collection and transportation of each sample, and is included in Appendix B of this report.

3.0 FINDINGS

3.1 ANALYTICAL RESULTS

The laboratory analytical results for groundwater, surface water, and the lined leachate basin samples collected at the Operating Landfill are listed in Table 1. Table 1 is displayed in the Electronic Data Deliverable format specified by the Solid Waste Section of the DWM memorandum dated October 27, 2006. The laboratory analytical report issued by Pace is included in Appendix B.

As stipulated in the October 27, 2006 memorandum referenced above, non-detections were reported as "Below Quantitation Limit" (BQL), and all concentrations exceeding the laboratory-specific Method Detection Limit (MDL) were reported and appropriately qualified (see Tables 1-3). The MDL is the minimum concentration of a substance that can be measured and reported by a laboratory with 99% confidence that the analyte concentration is greater than zero. All detections were compared to analyte-specific Solid Waste Section Limits (SWSLs) established by the NC Solid Waste Section. The SWSL is the lowest concentration of an analyte in a sample that can be quantitatively determined with suitable precision and accuracy. If the reported concentration is above the laboratory MDL and below the SWSL, the analytical result is qualified as estimated, and is flagged with a "J" qualifier (J-flag).

Detected concentrations of analytes in groundwater samples were compared to the standard specified by North Carolina Administrative Code (NCAC) Title 15A, Subchapter 2L groundwater quality standards (2L Standard). Detected concentrations of analytes in groundwater with no established 2L Standard were compared to the Groundwater Protection Standard (GWPS) pursuant to 15A NCAC 13B.1634. Detections of analytes in surface water samples were compared to the standard from the North Carolina Administrative Code (NCAC) Title 13A, Subchapter 2B groundwater quality standards (2B Standard).

Groundwater

- VOCs were not detected in groundwater.
- Eleven metals (antimony, arsenic, cadmium, chromium, cobalt, copper, mercury, nickel, selenium, thallium, and vanadium) were detected in groundwater samples at an estimated concentration above the Method Detection Limit (MDL) but below Solid Waste Section Limit (SWSL). These results are flagged with a "J" qualifier in Table 1.
- Thirteen metals (arsenic, barium, beryllium, chromium, cobalt, copper, lead, mercury, nickel, selenium, thallium, vanadium, and zinc) exceeded the respective SWSL in one or more of the groundwater samples. Table 2 lists all SWSL exceedances.
- Five metals (arsenic, barium, chromium, lead, and nickel) exceeded their respective 2L Standard in one or more groundwater samples.
- Four metals (antimony, cobalt, thallium, and vanadium) that have no established 2L Standard exceeded their respective GWPS in one or more groundwater samples.

The following statements summarize the 2L Standard and GWPS exceedances for Appendix I metals in groundwater samples shown in Table 3:

- ***Groundwater Sample MW-01:*** Thallium and vanadium were detected in excess of the GWPS.
- ***Groundwater Sample MW-02:*** Estimated concentrations (J-flags) of thallium and vanadium were detected in excess of the GWPS.
- ***Groundwater Sample MW-03:*** Cobalt was detected in excess of the GWPS. Estimated concentrations (J-flags) of thallium and vanadium were also detected in excess of the GWPS.
- ***Groundwater Sample MW-04:*** An estimated concentration (J-flag) of vanadium was detected in excess of the GWPS.
- ***Groundwater Sample MW-05:*** An estimated concentration of antimony (J-flag), and detected concentrations of thallium and vanadium were in excess of the GWPS. Chromium was detected in excess of the 2L Standard.
- ***Groundwater Sample MW-7R:*** Arsenic, barium, chromium, and lead exceeded the 2L Standard. Cobalt, thallium, and vanadium exceeded the GWPS.
- ***Groundwater Sample MW-08:*** Nickel was detected in excess of the 2L Standard. Cobalt, thallium and vanadium were detected in excess of the GWPS.

- ***Groundwater Sample MW-09:*** Thallium and vanadium exceeded the GWPS.

Surface Water

The following statements summarize detections of Appendix I metals in surface water. 2B Standard and GWPS exceedances are shown in Table 3:

- **Sample SW-01 (upstream):** Six metals (arsenic, chromium, copper, nickel, selenium and vanadium) were detected at estimated concentrations (J-flags). These estimated detections are shown in Table 1. The estimated concentration of selenium (7.9 µg/l) exceeds the 2B Standard of 5µg/l. Three metals (barium, cobalt, and zinc) were detected at concentrations above the SWSL.
- **Sample SW-02R (downstream):** Three metals (arsenic, copper and vanadium) were detected at estimated concentrations (J-flags). Three metals (barium, selenium, and zinc) were detected at concentrations above the SWSL. Selenium was detected at a concentration of 16.4 µg/l which exceeds the 2B standard. These detections are summarized in Table 2.

Analytical results for VOCs detected in surface water are shown in Tables 1 and 2, and are summarized as follows:

- One VOC (carbon disulfide) was detected at an estimated concentration (J-flag) in the surface water sample collected from the SW-02R location. This detection is shown in Table 1.
- There were no VOCs detected above the SWSL or in exceedance of 2B Standards in surface water samples collected at the SW-01 or SW-02R locations.

Lined Leachate Basin

The following statements summarize Appendix I metal detections in the sample collected from the lined leachate basin (LP-1).

- Six metals (arsenic, chromium, cobalt, copper, nickel, and vanadium) were detected at estimated concentrations (J-flags) in the sample (LP-1) collected from the lined leachate basin. These detections are shown in Table 1.
- Three metals (barium, zinc, and mercury) were detected at concentrations above the SWSL in the sample LP-1 collected from the lined leachate basin. These detections are summarized in Table 2.

Analytical results for VOCs detected in lined leachate basin are shown in Tables 1 and 2, and are summarized as follows:

- One VOC (acetone) was detected at an estimated concentration (J-flag), below the SWSL, in the lined leachate basin sample (LP-1). This detection is shown in Table 1.

In addition to analyzing for Appendix I metals and Appendix I VOCs, the lined leachate basin was analyzed for biological oxygen demand (BOD), chemical oxygen demand (COD), nitrate, phosphorus, and sulfate. The sample (LP-1) was collected at the point where the leachate enters the lined basin. The analytical results (shown in Table 1) for these additional parameters are as follows:

- BOD: The detected concentration was 69.0 mg/l.
- COD: The detected concentration was 476 mg/l.
- Nitrate: The analyte was not detected.
- Phosphorus: The result was 0.48 mg/l.
- Sulfate: The analyte was not detected.

3.2 HYDROGEOLOGY

The predominant shallow groundwater flow direction at the Operating Landfill is to the northwest, toward a tributary of Walnut Creek. Figure 3 depicts the generalized groundwater flow direction based on the groundwater measurements taken by Altamont on October 11, 2007. Water level data are summarized on Table 4.

3.3 STATISTICAL ANALYSES

Typically, the analysis of variance (ANOVA) procedure is used to compare concentration data from several compliance monitoring wells to concentration data from background wells. Parametric ANOVA procedures make the following two key assumptions:

- Data residuals are normally distributed; and
- Group variances are all approximately equal.

The above assumptions are difficult to verify when a substantial fraction of the measurements are non-detect, which is the case in monitoring wells at many landfills. If either of the two assumptions is violated, the EPA documents "*Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities, Interim Final Guidance*" (April 1989) and "*Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities, Addendum to Interim Final Guidance*" (July 1992) are recommend using a non-parametric statistical procedure.

Because a substantial fraction of the analytes were non-detect during this sampling event , the Kruskal-Wallis non-parametric statistical testing procedure was performed on the data from eight monitoring wells that were sampled during the Fall of 2007 at the Operating Landfill. Due to its recent installation, monitoring well MW-09 lacked a sufficient number of samples to be included in the statistical analyses. Data collected from monitoring well MW-09 will be included in the statistical analyses of the site beginning in the Fall 2008.

Background well MW-06 was not sampled during the current or previous sampling events because it was dry. The fact that MW-6 was dry has created a gap in data gathered from the background well. Therefore, historic analytical data for MW-06 was used for the analyses.

The Kruskal-Wallis analysis was performed for each constituent detected above the respective laboratory method detection limit in samples collected from the eight monitoring wells at the landfill. The analysis was used to determine if the total metal or VOC concentrations observed in samples from each location are significant enough to suggest contamination of groundwater above background concentrations. The

Kruskal-Wallis procedure tests the null hypothesis that all wells (background and compliance) have the same median concentrations for a particular constituent. If the median concentration for a particular constituent is not equal, then the alternative hypothesis, that at least one of the wells differs from the rest, is evaluated by comparing the computed Kruskal-Wallis H'-statistic to the tabulated Chi-square critical value (χ^2). If the computed H'-statistic is greater than the Chi-square critical value, the null hypothesis is rejected and one or more of the wells may be contaminated by a particular compound.

To determine which well or wells may be contaminated by a particular constituent, *post-hoc* pair-wise comparisons were performed to compare each compliance well to the background well (MW-6). If the Chi-square critical value exceeds the computed H'-statistic, then the null hypothesis is accepted and the possibility of contamination is rejected. Data from all available laboratory analyses performed to date were taken into account. Monitoring well MW-09 was not included in the statistical analyses. The Kruskal-Wallis statistical calculations for each constituent are summarized in Appendix D.

Statistical Analyses for Metals

According to the statistical analyses, concentrations of arsenic, barium, beryllium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc showed significant deviation from the median, suggesting that contamination is present in one or more of the monitoring wells. These metal constituents were detected in monitoring wells located adjacent to the Operating Landfill. The concentrations of metals in samples collected from MW-01, MW-02, MW-03, MW-04, MW-05, MW-7R, and MW-08 were compared to the historical water quality in MW-06 (background well). In summary,

- Concentrations of arsenic and beryllium in groundwater samples collected from monitoring well MW-7R were statistically greater than concentrations detected in groundwater samples collected from the background well.
- Concentrations of barium in groundwater samples collected from monitoring wells MW-01, MW-02, MW-03, MW-05, MW-7R, and MW-08 were statistically greater than concentrations detected in groundwater samples collected from the background well.
- Concentrations of chromium in groundwater samples collected from monitoring wells MW-05 and MW-7R were statistically greater than concentrations detected in groundwater samples collected from the background well.

- Concentrations of cobalt in groundwater samples collected from monitoring wells MW-02, MW-03, MW-05, MW-7R, and MW-08 were statistically greater than concentrations detected in groundwater samples collected from the background well.

- Concentrations of copper, nickel and vanadium in detected in groundwater samples collected from monitoring wells MW-05, MW-7R, and MW-08 were statistically greater than concentrations detected in groundwater samples collected from the background well.

- Concentrations of zinc in groundwater samples collected from monitoring wells MW-03, MW-05, MW-7R, and MW-08 were statistically greater than concentrations detected in groundwater samples collected from the background well.

- The concentrations of cadmium and mercury detected in groundwater samples collected from monitoring wells were not statistically different from the concentrations detected in groundwater samples collected from the background well.

- Thallium was detected in groundwater samples collected from monitoring wells MW-01, MW-02, MW-03, MW-04, MW-05, MW-7R, MW-08, and MW-09. Thallium has not been detected historically in groundwater samples from these monitoring wells. Therefore, statistical analyses were not performed due to a lack of sufficient data.

- Antimony was detected at an estimated concentration in the groundwater sample collected from monitoring well MW-05. Due to a lack of historical detections, statistical analyses were not conducted for this analyte in this monitoring well.

Statistical Analyses for Volatile Organic Compounds

VOCs were not detected in groundwater samples collected from monitoring wells. Therefore, a statistical analysis was not performed for VOCs.

4.0 SUMMARY

Groundwater

Analyses of data collected during the semiannual groundwater monitoring event conducted on October 10 and 11, 2007 at the Madison County Operating Landfill indicates that 13 metals were detected at concentrations above SWSLs in groundwater samples collected from monitoring wells. Of the 13 detected metals, the concentrations of arsenic, barium, chromium, cobalt, lead, nickel, thallium, vanadium, and zinc exceeded the 2L Standard or GWPS in one or more of the groundwater samples. Additionally, antimony, thallium and vanadium were detected in one or more of the groundwater samples at estimated concentrations below the SWSLs that exceeded 2L Standards or GWPSs. VOCs were not detected in groundwater at the Operating Landfill.

Specifically, exceedances of groundwater quality standards (2L Standards or GWPSs) were observed in groundwater samples collected from the monitoring wells as follows:

- ***Groundwater Sample MW-01:*** Thallium and vanadium were detected in excess of the GWPS at concentrations of 9.0 µg/l, and 72.3 µg/l respectively.
- ***Groundwater Sample MW-02:*** Estimated concentrations (J-flags) of thallium and vanadium were detected in excess of the GWPS at concentrations of 3.1 µg/l and 19.1 µg/l, respectively.
- ***Groundwater Sample MW-03:*** Estimated concentrations (J-flags) of thallium and vanadium were also detected in excess of the GWPS at concentrations of 5.2 µg/l and 15.5 µg/l, respectively. Cobalt was detected in excess of the GWPS at a concentration of 105 µg/l.
- ***Groundwater Sample MW-04:*** An estimated concentration (J-flag) of vanadium was detected in excess of the GWPS at a concentration of 12.9 µg/l.
- ***Groundwater Sample MW-05:*** An estimated concentration (J-flag) of antimony was detected at 2.6 µg/l. Thallium and vanadium were detected in excess of the GWPS at concentrations of 18.1 µg/l and 108 µg/l, respectively. Chromium was detected in excess of the 2L Standard at a concentration of 121 µg/l.
- ***Groundwater Sample MW-7R:*** Arsenic, barium, chromium, and lead were detected at concentrations of 91.6 µg/l, 2320 µg/l, 231 µg/l and 42.9 µg/l, respectively, all of which exceeded the 2L Standard. Cobalt, thallium, and vanadium were detected at concentrations of 81.5 µg/l, 9.2 µg/l and 351 µg/l, respectively, all of which exceeded the GWPS.
- ***Groundwater Sample MW-08:*** Nickel was detected in excess of the 2L Standard at a concentration of 119 µg/l. Cobalt, thallium and vanadium were detected in excess of the GWPS at concentrations of 130 µg/l, 27.1 µg/l and 30.3 µg/l, respectively.

- ***Groundwater Sample MW-09:*** Thallium and vanadium were detected at concentrations of 25.2 µg/l and 142 µg/l, respectively, which exceed the GWPS.

As noted in the sampling logs (Appendix A), the turbidity of groundwater samples collected from monitoring wells ranged from medium to high. In the least turbid groundwater samples (those from MW-02 and MW-04), fewer metals were detected, and the concentrations of detected metals were lower in these samples in comparison to the remaining monitoring wells. Particles that cause turbidity contain metallic ions derived from their parent rock. Some or all of the metals detected in groundwater samples may be attributable to this source. Altamont recommends sampling groundwater in the future at the landfill using low-flow sampling techniques in an attempt to reduce turbidity.

Furthermore, a comparison of metal detections that are higher that the 2L Standard in monitoring wells, to the metal detections in the sample collected from the lined leachate basin, reveals that metal concentrations in monitoring wells were uniformly greater than in the sample collected from the leachate basin. This observation, combined with those related to groundwater turbidity, further suggest that the metals detected in the monitoring wells may be naturally occurring.

Surface Water

Five metals were detected above their respective SWSLs in surface water samples during the October 2007 sampling event. Selenium was detected in surface water samples from both sampling locations, above the 2B Standard. Specifically, Selenium was detected at a concentration of 7.9 µg/l in the sample collected from the location upstream of the landfill (SW-01) and at a concentration of 16.4 µg/l in the sample collected from the location downstream of the landfill (SW-02R).

Lined Leachate Basin

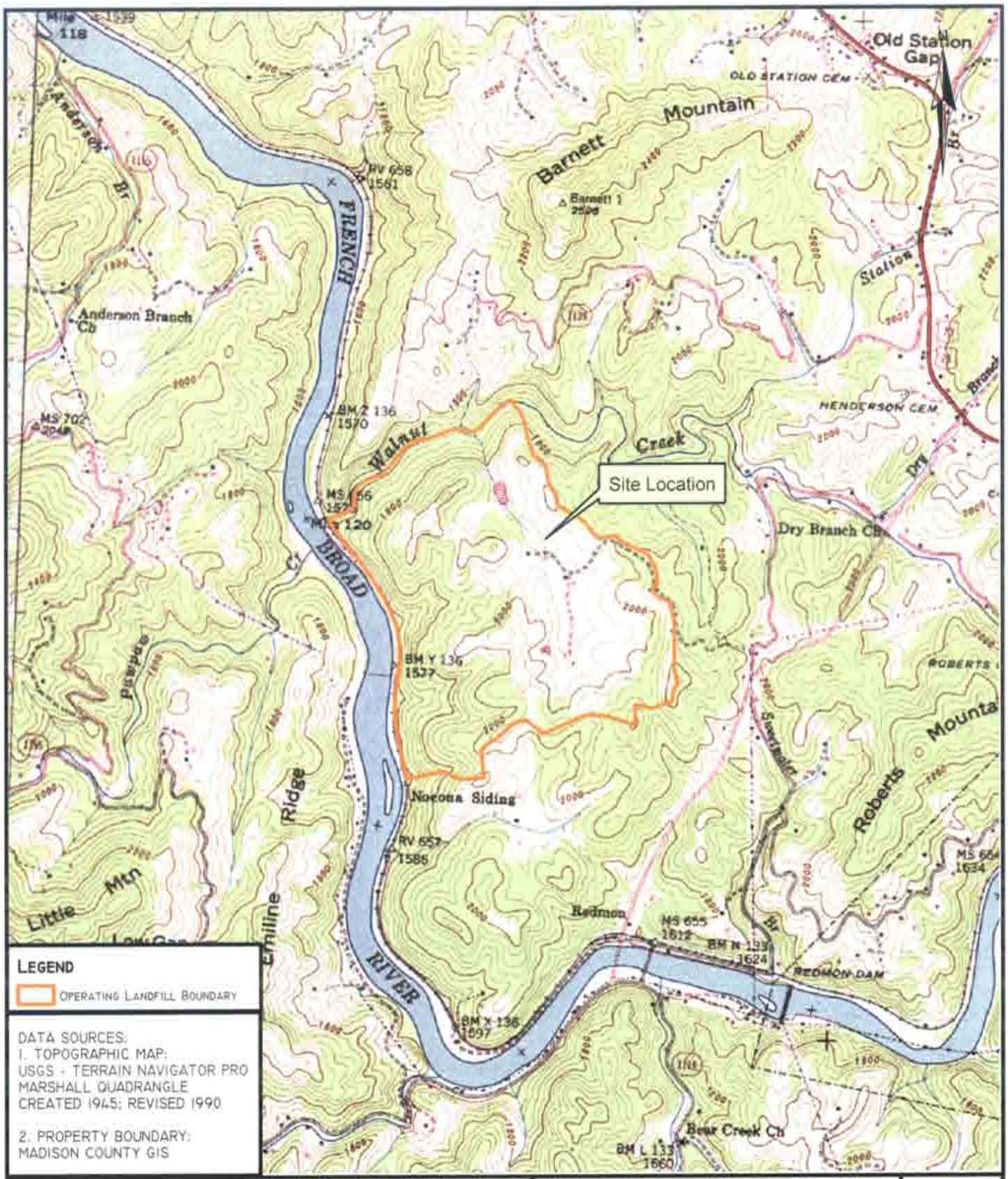
Mercury was detected in the sample collected from the lined leachate basin (LP-1) at a concentration of 0.89 µg/l. Prior to the April 2007 sampling event, mercury had not been detected in the leachate basin. Mercury naturally occurs in the soils of Western North Carolina, and has been historically observed at low concentrations in groundwater samples collected from monitoring well locations at the site. Altamont began sampling the Madison County Operating Landfill in April 1997, since that time mercury has not been detected in exceedance of the 2L Standard in groundwater samples collected from

monitoring wells. During the sampling event the level of the leachate in the basin was observed to be low. Taking into consideration the drought conditions over the past few years, the decrease in precipitation and /or an increase in evaporation rates in the leachate basin, the recent appearance of mercury in the lined leachate basin may be due to concentration of contaminants by the aforementioned processes.

Statistical Analyses

According to the Kruskal-Wallis statistical analyses, the concentrations of arsenic, barium, beryllium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc showed significant deviation from the median, which suggests that groundwater in the vicinity of one or more of the monitoring wells is contaminated. Through multiple comparison procedures, the concentrations of each of these metals in samples collected from monitoring wells MW-01, MW-02, MW-03, MW-04, MW-05, MW-7R, and MW-08 were compared to the concentrations found in groundwater samples collected from the background well (MW-06). A statistically significant difference in the concentration of a given constituent between background well samples and monitoring well samples indicates that the groundwater in the vicinity of a monitoring well is contaminated. In some instances, a constituent was detected at a concentration below its respective groundwater quality standard in a statistically contaminated well. A more detailed summary of the Kruskal-Wallis statistical analyses procedure can be found in Appendix C.

Altamont will continue to monitor metals and VOCs on a semiannual basis at the Operating Landfill. The next sampling event is scheduled for April 2008.



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DRAWN BY: KATIE MASSIE
PROJECT MANAGER: JOEL LENK
CLIENT: MADISON COUNTY
DATE: 12/19/2007

SCALE
0 500 1,000 2,000 Feet

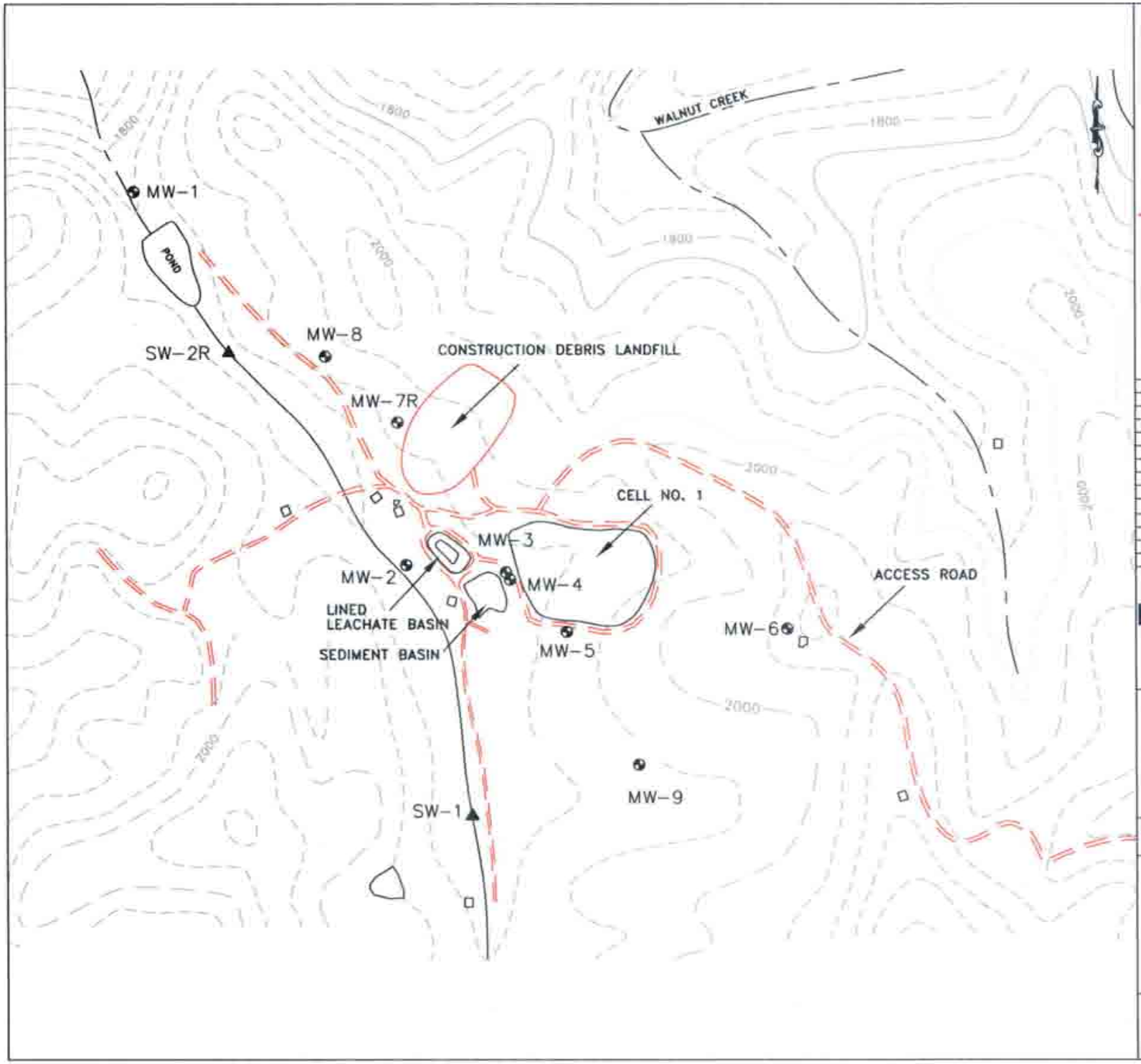
SITE LOCATION MAP
MADISON COUNTY OPERATING LANDFILL

271 Craig Rudisill Road
Marshall, NC 28753

MADISON COUNTY, NORTH CAROLINA

FIGURE
1

P:\Madison County\Figures\GIS\GIS User\MXDs\Site_Location_OperatingMadisonLandfill.mxd



LEGEND:

- MONITORING WELL LOCATION
- SURFACE WATER SAMPLING LOCATION
- GENERALIZED GROUNDWATER FLOW DIRECTION

GRAPHIC SCALE (FEET)

250 0 250 500

REV.	DATE	DESCRIPTION	BY	CHK	APV
4	12-18-07	UPDATE	AKB	JDH	
3	09-14-07	UPDATE	JHV	SAR	
2	05-13-02	UPDATE	SEK	JSM	
1	11-12-01	ORIGINAL	JMC	JPW	

DRAWN BY: JHV | DATE: 5-14-07
PROJECT NUMBER: 2006.12
DIRECTORY: P:\MADISON COUNTY\FIGURES\FIGURE 2 2007
CADD FILENAME: SITE DIAGRAM

ALTAMONT ENVIRONMENTAL, INC.
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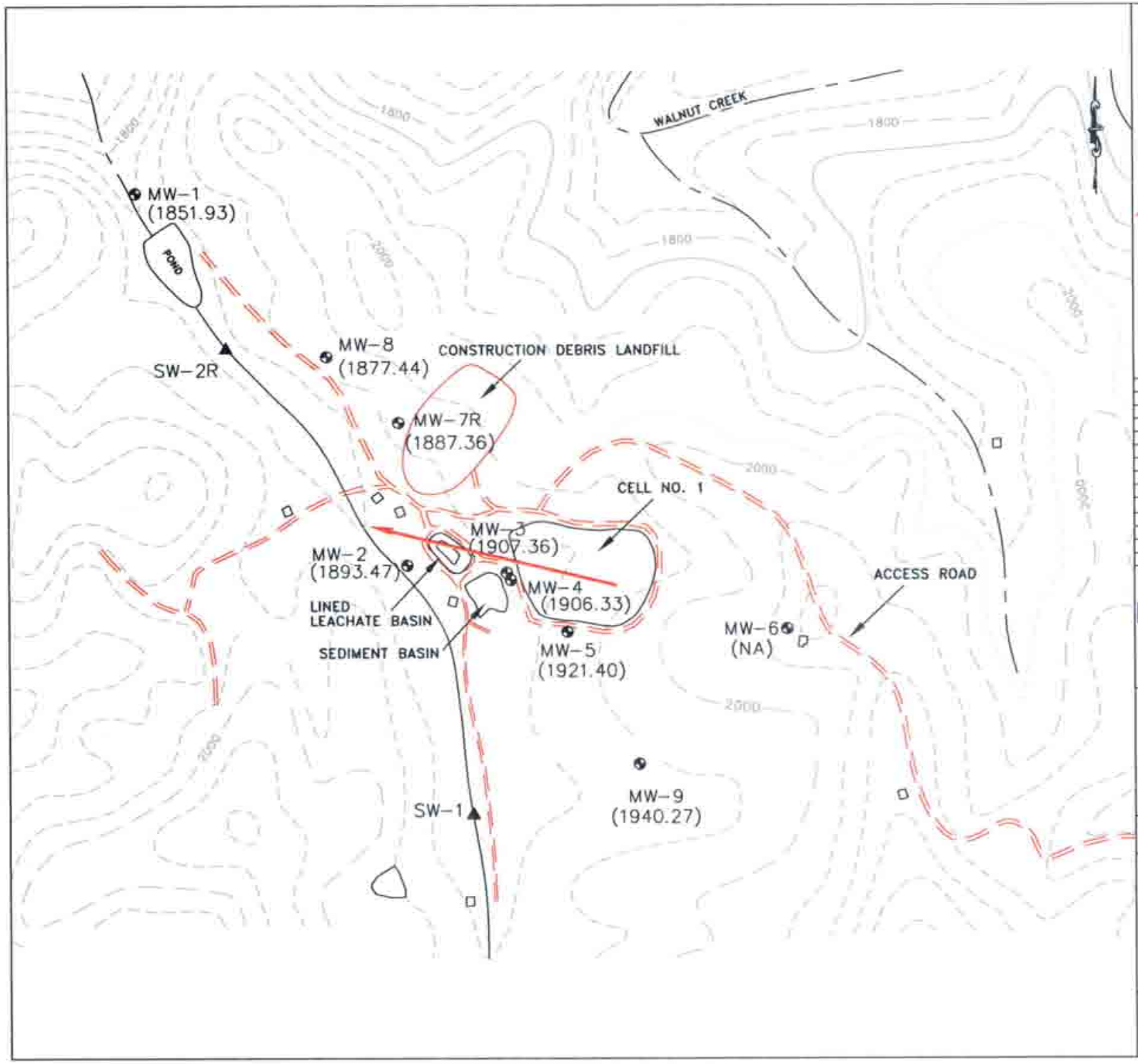
SAMPLE LOCATIONS

OCTOBER 10, 2007

MADISON COUNTY
OPERATING LANDFILL
MADISON COUNTY, NORTH CAROLINA

DRAWING NUMBER

FIGURE 2



NOTES:

1. GROUNDWATER FLOW DIRECTION BASED ON GROUNDWATER ELEVATIONS IN MW-2, MW-3, AND MW-7R (WATER TABLE WELLS).
2. GROUNDWATER ELEVATIONS MEASURED ON OCTOBER 10, 2007.

LEGEND:

- MONITORING WELL LOCATION
- SURFACE WATER SAMPLING LOCATION
- GENERALIZED GROUNDWATER FLOW DIRECTION

NA - NOT APPLICABLE INDICATES WELL IS DRY

GRAPHIC SCALE (FEET)

250 0 250 500

REV.	DATE	DESCRIPTION	BY	CHK	APV
4	12-18-07	UPDATE	AKB	JDH	
3	05-14-07	UPDATE	JHV	SAR	
2	05-13-03	UPDATE	SEK	JSN	
1	11-12-01	ORIGINAL	JHC	JPM	

DRAWN BY: JHV | DATE: 5-14-07

PROJECT NUMBER: 2006.12

DIRECTORY: P:\MADISON COUNTY\FIGURES\FIGURE 3 2007

CADD FILENAME: SITE DIAGRAM

ALTAMONT ENVIRONMENTAL, INC
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36 COLLEGE STREET, ASHEVILLE, NC 28801
TEL 828 281 3350 FAX 828 281 3351
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GENERALIZED GROUNDWATER FLOW DIRECTION
OCTOBER 10, 2007

MADISON COUNTY
OPERATING LANDFILL
MADISON COUNTY, NORTH CAROLINA

DRAWING NUMBER

FIGURE 3

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Well Sampling Log

FACILITY NAME: Madison County Landfill
DATE: 10/10/07
LOCATION: Marshall, NC
SAMPLING TIME: 1426
SAMPLING PERSONNEL: J Hazinski / E Yurkovich
WEATHER: Sunny, Hot

WELL NUMBER: MW-01
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: TOC
FLUSH MOUNT / STICK-UP
COMMENTS: Well bailed dry @ ~5.5 gal, Let well recharge, took final parameters, then obtained sample.

WELL DEPTH IN FEET (WD): 19.50 ~~DATE:~~
WATER LEVEL IN FEET (WL): 7.11 ~~DATE:~~ TIME: 1407
LENGTH OF WATER COLUMN: 12.39 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 2.11 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 6.32 GALLONS
ACTUAL VOLUME PURGED: 5.50 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)	TURBIDITY (NTU)	COMMENTS
1	initial	6.29	105	17.92	1.25	127.3	11.16	
2	2.25	6.13	98	16.72	2.93	132.4	344.9	
3	4.50	5.90	106	15.53	2.52	44.5	721.7	
4	5.50	5.73	96	15.48	2.03	51.0	335.0	
5								
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	1	Appemdix I Metals by 6000/7000
40 ml GLASS	3	Appendix I VOCs 8260 Low Level
1 L GLASS		
OTHER		

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

Sampling Personnel Signature: [signature] **Date:** 10/10/07

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

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Well Sampling Log

FACILITY NAME: Madison County Landfill
DATE: 10/10/07
LOCATION: Marshall, NC
SAMPLING TIME: 16:12
SAMPLING PERSONNEL: J Hazinski / E Yurkovich
WEATHER: Clear, Sunny

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

WELL DEPTH IN FEET (WD): 18.20 ~~DATE~~:
WATER LEVEL IN FEET (WL): 5.47 ~~DATE~~: TIME: 1552
LENGTH OF WATER COLUMN : 12.73 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 2.16 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 6.49 GALLONS
ACTUAL VOLUME PURGED: 6.50 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)	TURBIDITY (NTU)	COMMENTS
1	initial	6.14	98	17.66	5.66	112.3	26.19	
2	2.25	6.12	95	16.67	5.45	117.6	38.16	
3	4.50	6.11	86	16.01	5.25	122.3	44.26	
4	6.50	6.04	87	15.95	5.21	131.4	51.52	
5								
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	1	Appemdix I Metals by 6000/7000
40 ml GLASS	3	Appendix I VOCs 8260 Low Level
1 L GLASS		
OTHER		

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

Sampling Personnel Signature: [signature] **Date:** 10-10-07

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

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Well Sampling Log

FACILITY NAME: Madison County Landfill
DATE: 10/10/07
LOCATION: Marshall, NC
SAMPLING TIME: 12:30
SAMPLING PERSONNEL: J Hazinski / E Yurkovich
WEATHER: Sunny, Hot

WELL NUMBER: MW-03
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: TOC
FLUSH MOUNT / STICK-UP
COMMENTS:

WELL DEPTH IN FEET (WD): 35.90 ~~DATE:~~
WATER LEVEL IN FEET (WL): 25.60 ~~DATE:~~ TIME: 12:12
LENGTH OF WATER COLUMN: 10.30 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 1.75 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 5.25 GALLONS
ACTUAL VOLUME PURGED: 5.25 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)	TURBIDITY (NTU)	COMMENTS
1	initial	6.03	309	15.72	1.27	29.8	453.2	
2	1.75	6.02	319	15.31	2.51	24.7	365.8	
3	3.50	6.00	322	15.08	2.36	27.5	179.3	
4	5.25	5.99	317	14.88	2.32	28.6	295.1	
5								
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	1	Appemdix I Metals by 6000/7000
40 ml GLASS	3	Appendix I VOCs 8260 Low Level
1 L GLASS		
OTHER		

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

Sampling Personnel Signature: [signature] **Date:** 10-10-07

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

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Well Sampling Log

FACILITY NAME: Madison County Landfill
DATE: 10/10/07
LOCATION: Marshall, NC
SAMPLING TIME: 12:11
SAMPLING PERSONNEL: J Hazinski / E Yurkovich
WEATHER: Sunny, Hot

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

WELL DEPTH IN FEET (WD): 83.00 ~~DATE:~~
WATER LEVEL IN FEET (WL): 29.31 ~~DATE:~~ TIME: 11:25
LENGTH OF WATER COLUMN: 53.69 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 9.13 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 27.39 GALLONS
ACTUAL VOLUME PURGED: 27.50 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)	TURBIDITY (NTU)	COMMENTS
1	initial	6.33	139	17.14	4.13	149.3	25.29	
2	9.25	6.41	134	16.45	5.11	135.6	27.92	
3	18.50	6.39	132	16.26	5.14	122.2	41.56	
4	27.50	6.40	132	16.35	5.17	115.6	41.90	
5								
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	1	Appemdix I Metals by 6000/7000
40 ml GLASS	3	Appendix I VOCs 8260 Low Level
1 L GLASS		
OTHER		

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

Sampling Personnel Signature: [signature] **Date:** 10-10-07

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

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Well Sampling Log

FACILITY NAME: Madison County Landfill
DATE: 10/10/07
LOCATION: Marshall, NC
SAMPLING TIME: 11:02
SAMPLING PERSONNEL: J Hazinski / E Yurkovich
WEATHER: Sunny, Warm

WELL NUMBER: MW-05
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: TOC
FLUSH MOUNT / STICK-UP
COMMENTS:

WELL DEPTH IN FEET (WD): 64.06 ~~DATE:~~
WATER LEVEL IN FEET (WL): 51.36 ~~DATE~~: TIME: 10:37
LENGTH OF WATER COLUMN: 12.64 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 2.15 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 6.45 GALLONS
ACTUAL VOLUME PURGED: 6.50 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)	TURBIDITY (NTU)	COMMENTS
1	initial	5.98	114	15.79	1.62	210.0	40.10	
2	2.25	5.96	109	14.69	2.44	200.6	191.4	
3	4.50	5.93	110	14.77	3.26	195.5	>1100	
4	6.50	5.93	105	14.78	4.21	189.4	994.1	
5								
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	1	Appemdix I Metals by 6000/7000
40 ml GLASS	3	Appendix I VOCs 8260 Low Level
1 L GLASS		
OTHER		

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

Sampling Personnel Signature: [signature] **Date:** 10-10-07

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

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Well Sampling Log

FACILITY NAME: Madison County Landfill
DATE: 10/10/07
LOCATION: Marshall, NC
SAMPLING TIME: —
SAMPLING PERSONNEL: J Hazinski / E Yurkovich
WEATHER: Sunny, Warm

WELL NUMBER: MW-06
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: TOC
FLUSH MOUNT / STICK-UP
COMMENTS: Well Dry. No Sample.

WELL DEPTH IN FEET (WD): 103.80 ~~DATE:~~
WATER LEVEL IN FEET (WL): NA ~~DATE:~~ TIME: 10:20
LENGTH OF WATER COLUMN : _____ FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: _____ GALLONS
(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)	TURBIDITY (NTU)	COMMENTS
1								
2								
3								
4								
5								
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	1	Appemdix I Metals by 6000/7000
40 ml GLASS	3	Appendix I VOCs 8260 Low Level
1 L GLASS		
OTHER		

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

Sampling Personnel Signature: [signature] **Date:** 10-10-07

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

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Well Sampling Log

FACILITY NAME: Madison County Landfill
DATE: 10/10/07
LOCATION: Marshall, NC
SAMPLING TIME: 1543
SAMPLING PERSONNEL: J Hazinski / E Yurkovich
WEATHER: Clear, Sunny, Hot

WELL NUMBER: MW-7R
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: TOC
FLUSH MOUNT / STICK-UP
COMMENTS: w/ell bailed dry @ ~ 4.50, Let well recharge, took final parameters, then collected sample

WELL DEPTH IN FEET (WD): 41.40 ~~DATE:~~
WATER LEVEL IN FEET (WL): 31.98 ~~DATE:~~ TIME: 1515
LENGTH OF WATER COLUMN: 9.42 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 1.60 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 4.80 GALLONS
ACTUAL VOLUME PURGED: 4.50 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)	TURBIDITY (NTU)	COMMENTS
1	initial	6.32	51	16.67	4.39	98.2	193.6	
2	1.75	6.11	52	15.22	9.30	110.1	305.2	
3	3.50	6.11	50	14.75	9.03	123.5	387.1	
4	~~5.00~~ 4.50	5.94	50	15.06	8.86	131.4	408.2	
5								
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	1	Appemdix I Metals by 6000/7000
40 ml GLASS	3	Appendix I VOCs 8260 Low Level
1 L GLASS		
OTHER		

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

Sampling Personnel Signature: [signature] **Date:** 10-10-07

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

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Well Sampling Log

FACILITY NAME: Madison County Landfill
DATE: 10/10/07
LOCATION: Marshall, NC
SAMPLING TIME: 15:04
SAMPLING PERSONNEL: J Hazinski / E Yurkovich
WEATHER: Sunny, Hot

WELL NUMBER: MW-08
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: TOC
FLUSH MOUNT / STICK-UP
COMMENTS:

WELL DEPTH IN FEET (WD): 26.60 ~~DATE:~~
WATER LEVEL IN FEET (WL): 22.48 ~~DATE:~~ TIME: 14:48
LENGTH OF WATER COLUMN: 4.12 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 0.70 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 2.10 GALLONS
ACTUAL VOLUME PURGED: 2.25 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)	TURBIDITY (NTU)	COMMENTS
1	initial	6.31	160	15.50	7.07	54.8	4.60	
2	0.75	6.23	159	14.26	6.99	69.4	599.4	
3	1.50	6.27	160	14.44	7.17	74.7	466.5	
4	2.25	6.26	164	14.54	7.24	77.5	498.3	
5								
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	1	Appemdix I Metals by 6000/7000
40 ml GLASS	3	Appendix I VOCs 8260 Low Level
1 L GLASS		
OTHER		

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

Sampling Personnel Signature: [signature] **Date:** 10-10-07

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

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Well Sampling Log

FACILITY NAME: Madison County Landfill
DATE: 10/10/07
LOCATION: Marshall, NC
SAMPLING TIME: 1350
SAMPLING PERSONNEL: J Hazinski / E Yurkovich
WEATHER: Sunny, Hot

WELL NUMBER: MW-09
WELL DIAMETER: 2"
TYPE OF CASING: PVC
MEASURING POINT: TOC
FLUSH MOUNT / STICK-UP
COMMENTS: Well bailed dry @ ~7.25 gal Let well recharge, took final parameters, then collected sample.

WELL DEPTH IN FEET (WD): 25.34 ~~DATE:~~
WATER LEVEL IN FEET (WL): 9.16 ~~DATE:~~ TIME: 12:55
LENGTH OF WATER COLUMN: 16.18 FEET
(WD) - (WL) = (LWC)
ONE CASING VOLUME: 2.75 GALLONS
(LWC) x (WCV)
THREE CASING VOLUMES: 8.25 GALLONS
ACTUAL VOLUME PURGED: 7.25 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)	TURBIDITY (NTU)	COMMENTS
1	Initial	6.76	128	20.41	4.73	72.8	43.93	
2	2.75	6.60	116	16.69	3.89	102.6	98.79	
3	5.50	6.37	126	15.91	3.79	115.5	1100	
4	7.25	6.50	129	17.98	6.93	111.2	718.7	
5								
6								
7								
8								
9								

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
250 ml PLASTIC	1	Appemdix I Metals by 6000/7000
40 ml GLASS	3	Appendix I VOCs 8260 Low Level
1 L GLASS		
OTHER		

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

Sampling Personnel Signature: [signature] **Date:** 10-10-07

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

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Surface Water Sampling Log

FACILITY NAME: Madison County Landfill
DATE: 10/10/07
LOCATION: Marshall, NC
SAMPLING TIME: 10:50
SAMPLING PERSONNEL: J Hazinski / E Yurkovich
WEATHER: Sunny, cool

SAMPLE NAME: SW-01

START TIME: 10:46
END TIME: 10:58

COMMENTS: Up stream sample

SAMPLE METHOD: BAILER-DISP. PUMP SYRINGE OTHER: Grab

READING	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	6.85	138	11.62	3.05	-103.7	16.98	
2							
3							
4							
5							
6							
7							
8							
9							

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
125 ml PLASTIC		
250 ml PLASTIC	1	Appendix I Metals by 6000/7000
500 ml PLASTIC		
40 ml GLASS	3	Appendix I VOCs 8260 Low Level
1 L GLASS		
OTHER		

VEGETATION: OK ACCESS: OK

Sampling Personnel Signature: [signature] **Date:** 10-11-07

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

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Surface Water Sampling Log

FACILITY NAME: Madison County Landfill
DATE: 10/10/07
LOCATION: Marshall, NC
SAMPLING TIME: 1443
SAMPLING PERSONNEL: J Hazinski / E Yurkovich
WEATHER: Clear Sunny

SAMPLE NAME: SW-02R

START TIME: 14:40
END TIME: 14:50

COMMENTS: Down stream sample

SAMPLE METHOD: BAILER-DISP. PUMP SYRINGE OTHER: Grab

READING	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	6.33	240	17.08	0.91	-54.7	42.08	
2							
3							
4							
5							
6							
7							
8							
9							

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
125 ml PLASTIC		
250 ml PLASTIC	1	Appendix I Metals by 6000/7000
500 ml PLASTIC		
40 ml GLASS	3	Appendix I VOCs 8260 Low Level
1 L GLASS		
OTHER		

VEGETATION: High ACCESS: Good

Sampling Personnel Signature: [signature] **Date:** 10-10-07

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

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Surface Water Sampling Log

FACILITY NAME: Madison County Landfill
DATE: 10/10/07
LOCATION: Marshall, NC
SAMPLING TIME: 1140
SAMPLING PERSONNEL: J Hazinski / E Yurkovich
WEATHER: Cloudy, Windy, Cool

SAMPLE NAME: LP-1

START TIME: 1125
END TIME: 11:52

COMMENTS: Sample taken @ end of pipe where leachate enters pond.

SAMPLE METHOD: BAILER-DISP. PUMP SYRINGE OTHER: Grab

READING	pH UNITS	SPECIFIC COND. (µS)	TEMP (C°)	DISSOLVED OXYGEN (mg/L)	OXIDATION REDUCTION POTENTIAL (mV)	TURBIDITY (NTU)	COMMENTS
1	9.01	1728	10.77°	6.08	-65.7	303.7	
2							
3							
4							
5							
6							
7							
8							
9							

SAMPLING CONTAINER	NUMBER OF CONTAINERS	REQUESTED ANALYSIS
125 ml PLASTIC	1	COD, TP (H_2SO_4)
250 ml PLASTIC	1	Appendix I Metals by 6000/7000
500 ml PLASTIC	1	NO_3, SO_4
40 ml GLASS	3	Appendix I VOCs 8260 Low Level
1 L ~~GLASS~~ Plastic	1	BOD
OTHER		

VEGETATION: ok ACCESS: ok

Sampling Personnel Signature: [signature] **Date:** 10/11/07

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

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Equipment Documentation & Instrument Calibration Data Sheet

Project Name: Madison County Landfill
Project Number: 2006.12
Project Location: Marshall, NC

Equipment Documentation

Equipment or meters used to take measurements (e.g. water level meters, survey equipment, etc.):

Equipment Type	Manufacturer	Serial Number	Date of Use
150-ft Water Level	Heron	7186	
150-ft Water Level	Solinst	26154	
150-ft Water Level	Solinst	22754	
150-ft Water Level	Testwell	150	10-10-07

Calibration Documentation

Person Conducting Calibration: E. Yurkovich
Date of Calibration: 10/10/07
Date of Field Measurements: 10/10/07

Micro TPW Turbidity Meter

Date / Calib Time	Calib Standard Exp	Instrument Serial #	Instrument Reading		
			1000 NTU	10.0 NTU	0.02 NTU
10-10-07 8:00	9-08	200601045	Initial: 855 Calibrated: 1070	Initial: 9.11 Calibrated: 9.70	Initial: 0.83 Calibrated: 0.31

YSI 556 Multiparameter Meter

Date	Calib Time	Calib Standard Expiration Date	Instrument Serial Number	Instrument Readings					
				pH 4	pH 7	pH 10	QC pH 7	Conductivity 447 µS	ORP 240 mV
10-10-07	8:30	July 09	07D100979	Initial: 3.97 Calibrated: 4.00	Initial: 7.02 Calibrated: 7.00	Initial: 9.95 Calibrated: 10.00	Meas: 7.05	Initial: 452 Calibrated: 447	Initial: 241.1 Calibrated: 240
				Initial: Calibrated:	Initial: Calibrated:	Initial: Calibrated:	Meas:	Initial: Calibrated:	Initial: Calibrated:

Comments:

Signature and Date: 10/10/07

Note: Electronic equipment calibrated according to the manufacturer's operation manual.

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November 01, 2007

RECEIVED
NOV 0 1 2007

Mr. Stu Ryman
Altamont Environmental
50 College Street
Asheville, NC 28801

RE: Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

Dear Mr. Ryman:
Enclosed are the analytical results for sample(s) received by the laboratory on October 11, 2007. The results relate only to the samples included in this report. 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 Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

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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CERTIFICATIONS

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

Charlotte Certification IDs

Florida/NELAP Certification Number: E87627
Kansas Certification Number: E-10364
Louisiana/LELAP Certification Number: 04034
North Carolina Drinking Water Certification Number: 37706
North Carolina Wastewater Certification Number: 12
North Carolina Field Services Certification Number: 5342
South Carolina Certification Number: 990060001
South Carolina Bioassay Certification Number: 990060003
Tennessee Certification Number: 04010
Virginia Certification Number: 00213

Asheville Certification IDs

Florida/NELAP Certification Number: E87648
Louisiana/LELAP Certification Number: 03095
New Jersey Certification Number: NC011
North Carolina Drinking Water Certification Number: 37712
North Carolina Wastewater Certification Number: 40
North Carolina Bioassay Certification Number: 9
Pennsylvania Certification Number: 68-03578
South Carolina Certification Number: 99030001
South Carolina Bioassay Certification Number: 99030002
Tennessee Certification Number: 2980
Virginia Certification Number: 00072

Eden Certification IDs

North Carolina Drinking Water Certification Number: 37738
Virginia Drinking Water Certification Number: 00424
North Carolina Wastewater Certification Number: 633

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SAMPLE SUMMARY

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

Lab ID	Sample ID	Matrix	Date Collected	Date Received
925531001	MW-01	Water	10/10/07 14:26	10/11/07 09:18
925531002	MW-02	Water	10/10/07 16:12	10/11/07 09:18
925531003	MW-03	Water	10/10/07 12:30	10/11/07 09:18
925531004	MW-04	Water	10/10/07 12:11	10/11/07 09:18
925531005	MW-05	Water	10/10/07 11:02	10/11/07 09:18
925531006	MW-7R	Water	10/10/07 15:43	10/11/07 09:18
925531007	MW-08	Water	10/10/07 15:04	10/11/07 09:18
925531008	MW-09	Water	10/10/07 13:50	10/11/07 09:18
925531009	SW-02R	Water	10/10/07 14:43	10/11/07 09:18
925531010	TRIP BLANK	Water	10/10/07 00:00	10/11/07 09:18
925531011	SW-01	Water	10/11/07 10:50	10/11/07 16:43
925531012	LP-1	Water	10/11/07 11:40	10/11/07 16:43

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SAMPLE ANALYTE COUNT

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

Lab ID	Sample ID	Method	Analytes Reported	Laboratory
925531001	MW-01	EPA 6010 GW North Carolina	15	PASI-A
		EPA 7470	1	PASI-A
		EPA 8260	53	PASI-C
925531002	MW-02	EPA 6010 GW North Carolina	15	PASI-A
		EPA 7470	1	PASI-A
		EPA 8260	53	PASI-C
925531003	MW-03	EPA 6010 GW North Carolina	15	PASI-A
		EPA 7470	1	PASI-A
		EPA 8260	53	PASI-C
925531004	MW-04	EPA 6010 GW North Carolina	15	PASI-A
		EPA 7470	1	PASI-A
		EPA 8260	53	PASI-C
925531005	MW-05	EPA 6010 GW North Carolina	15	PASI-A
		EPA 7470	1	PASI-A
		EPA 8260	53	PASI-C
925531006	MW-7R	EPA 6010 GW North Carolina	15	PASI-A
		EPA 7470	1	PASI-A
		EPA 8260	53	PASI-C
925531007	MW-08	EPA 6010 GW North Carolina	15	PASI-A
		EPA 7470	1	PASI-A
		EPA 8260	53	PASI-C
925531008	MW-09	EPA 6010 GW North Carolina	15	PASI-A
		EPA 7470	1	PASI-A
		EPA 8260	53	PASI-C
925531009	SW-02R	EPA 6010 GW North Carolina	15	PASI-A
		EPA 7470	1	PASI-A
		EPA 8260	53	PASI-C
925531010	TRIP BLANK	EPA 8260	53	PASI-C
925531011	SW-01	EPA 6010 GW North Carolina	15	PASI-A
		EPA 7470	1	PASI-A
		EPA 8260	53	PASI-C
925531012	LP-1	ASTM D516-90,02	1	PASI-A
		EPA 353.2	1	PASI-A
		EPA 365.1	1	PASI-A
		EPA 6010 GW North Carolina	15	PASI-A
		EPA 7470	1	PASI-A
		EPA 8260	53	PASI-C

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SAMPLE ANALYTE COUNT

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

Lab ID	Sample ID	Method	Analytes Reported	Laboratory
		SM 5210B	1	PASI-A
		SM 5220D	1	PASI-A

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ANALYTICAL RESULTS

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

Sample: MW-01 **Lab ID: 925531001** Collected: 10/10/07 14:26 Received: 10/11/07 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP NC Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	10/17/07 14:15	10/22/07 19:11	7440-36-0	
Arsenic	**4.2J**	ug/L	5.0	2.7	1	10/17/07 14:15	10/22/07 19:11	7440-38-2	
Barium	**397**	ug/L	5.0	0.20	1	10/17/07 14:15	10/22/07 19:11	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	10/17/07 14:15	10/22/07 19:11	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	10/17/07 14:15	10/22/07 19:11	7440-43-9	
Chromium	**39.0**	ug/L	5.0	0.40	1	10/17/07 14:15	10/22/07 19:11	7440-47-3	
Cobalt	**33.2**	ug/L	5.0	0.60	1	10/17/07 14:15	10/22/07 19:11	7440-48-4	
Copper	**27.3**	ug/L	5.0	0.30	1	10/17/07 14:15	10/22/07 19:11	7440-50-8	
Lead	**7.2**	ug/L	5.0	4.0	1	10/17/07 14:15	10/22/07 19:11	7439-92-1	
Nickel	**25.2**	ug/L	5.0	1.7	1	10/17/07 14:15	10/22/07 19:11	7440-02-0	
Selenium	**14.0**	ug/L	10.0	3.8	1	10/17/07 14:15	10/22/07 19:11	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	10/17/07 14:15	10/22/07 19:11	7440-22-4	
Thallium	**9.0**	ug/L	5.5	3.0	1	10/17/07 14:15	10/22/07 19:11	7440-28-0	
Vanadium	**72.3**	ug/L	5.0	0.20	1	10/17/07 14:15	10/22/07 19:11	7440-62-2	
Zinc	**100**	ug/L	10.0	0.40	1	10/17/07 14:15	10/22/07 19:11	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.090	1	10/22/07 14:07	10/23/07 10:33	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		10/16/07 06:29	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/16/07 06:29	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/16/07 06:29	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/16/07 06:29	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/16/07 06:29	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/16/07 06:29	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		10/16/07 06:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/16/07 06:29	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/16/07 06:29	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/16/07 06:29	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/16/07 06:29	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/16/07 06:29	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/16/07 06:29	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/16/07 06:29	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		10/16/07 06:29	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/16/07 06:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/16/07 06:29	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/16/07 06:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/16/07 06:29	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/16/07 06:29	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/16/07 06:29	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/16/07 06:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/16/07 06:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/16/07 06:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/16/07 06:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/16/07 06:29	156-60-5	

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ANALYTICAL RESULTS

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

Sample: MW-01 **Lab ID: 925531001** Collected: 10/10/07 14:26 Received: 10/11/07 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/16/07 06:29	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/16/07 06:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/16/07 06:29	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/16/07 06:29	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/16/07 06:29	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/16/07 06:29	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/16/07 06:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/16/07 06:29	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		10/16/07 06:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/16/07 06:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/16/07 06:29	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/16/07 06:29	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/16/07 06:29	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/16/07 06:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/16/07 06:29	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/16/07 06:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/16/07 06:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/16/07 06:29	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/16/07 06:29	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/16/07 06:29	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/16/07 06:29	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/16/07 06:29	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		10/16/07 06:29	95-47-6	
4-Bromofluorobenzene (S)	99	%	87-109		1		10/16/07 06:29	460-00-4	
Dibromofluoromethane (S)	109	%	85-115		1		10/16/07 06:29	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	79-120		1		10/16/07 06:29	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		10/16/07 06:29	2037-26-5	

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ANALYTICAL RESULTS

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

Sample: MW-02 **Lab ID: 925531002** Collected: 10/10/07 16:12 Received: 10/11/07 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP NC Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	10/17/07 14:15	10/22/07 19:15	7440-36-0	
Arsenic	**4.0J**	ug/L	5.0	2.7	1	10/17/07 14:15	10/22/07 19:15	7440-38-2	
Barium	**269**	ug/L	5.0	0.20	1	10/17/07 14:15	10/22/07 19:15	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	10/17/07 14:15	10/22/07 19:15	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	10/17/07 14:15	10/22/07 19:15	7440-43-9	
Chromium	**6.2**	ug/L	5.0	0.40	1	10/17/07 14:15	10/22/07 19:15	7440-47-3	
Cobalt	**53.1**	ug/L	5.0	0.60	1	10/17/07 14:15	10/22/07 19:15	7440-48-4	
Copper	**7.2**	ug/L	5.0	0.30	1	10/17/07 14:15	10/22/07 19:15	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	10/17/07 14:15	10/22/07 19:15	7439-92-1	
Nickel	**5.6**	ug/L	5.0	1.7	1	10/17/07 14:15	10/22/07 19:15	7440-02-0	
Selenium	**8.7J**	ug/L	10.0	3.8	1	10/17/07 14:15	10/22/07 19:15	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	10/17/07 14:15	10/22/07 19:15	7440-22-4	
Thallium	**3.1J**	ug/L	5.5	3.0	1	10/17/07 14:15	10/22/07 19:15	7440-28-0	
Vanadium	**19.1**	ug/L	5.0	0.20	1	10/17/07 14:15	10/22/07 19:15	7440-62-2	
Zinc	**38.5**	ug/L	10.0	0.40	1	10/17/07 14:15	10/22/07 19:15	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.090	1	10/22/07 14:07	10/23/07 10:38	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		10/16/07 06:52	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/16/07 06:52	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/16/07 06:52	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/16/07 06:52	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/16/07 06:52	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/16/07 06:52	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		10/16/07 06:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/16/07 06:52	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/16/07 06:52	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/16/07 06:52	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/16/07 06:52	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/16/07 06:52	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/16/07 06:52	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/16/07 06:52	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		10/16/07 06:52	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/16/07 06:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/16/07 06:52	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/16/07 06:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/16/07 06:52	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/16/07 06:52	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/16/07 06:52	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/16/07 06:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/16/07 06:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/16/07 06:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/16/07 06:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/16/07 06:52	156-60-5	

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ANALYTICAL RESULTS

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

Sample: MW-02 **Lab ID: 925531002** Collected: 10/10/07 16:12 Received: 10/11/07 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/16/07 06:52	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/16/07 06:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/16/07 06:52	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/16/07 06:52	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/16/07 06:52	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/16/07 06:52	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/16/07 06:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/16/07 06:52	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		10/16/07 06:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/16/07 06:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/16/07 06:52	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/16/07 06:52	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/16/07 06:52	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/16/07 06:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/16/07 06:52	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/16/07 06:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/16/07 06:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/16/07 06:52	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/16/07 06:52	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/16/07 06:52	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/16/07 06:52	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/16/07 06:52	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		10/16/07 06:52	95-47-6	
4-Bromofluorobenzene (S)	99	%	87-109		1		10/16/07 06:52	460-00-4	
Dibromofluoromethane (S)	107	%	85-115		1		10/16/07 06:52	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	79-120		1		10/16/07 06:52	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		10/16/07 06:52	2037-26-5	

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ANALYTICAL RESULTS

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

Sample: MW-03 **Lab ID: 925531003** Collected: 10/10/07 12:30 Received: 10/11/07 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP NC Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	10/17/07 14:15	10/22/07 19:19	7440-36-0	
Arsenic	**4.0J**	ug/L	5.0	2.7	1	10/17/07 14:15	10/22/07 19:19	7440-38-2	
Barium	**274**	ug/L	5.0	0.20	1	10/17/07 14:15	10/22/07 19:19	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	10/17/07 14:15	10/22/07 19:19	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	10/17/07 14:15	10/22/07 19:19	7440-43-9	
Chromium	**9.8**	ug/L	5.0	0.40	1	10/17/07 14:15	10/22/07 19:19	7440-47-3	
Cobalt	**105**	ug/L	5.0	0.60	1	10/17/07 14:15	10/22/07 19:19	7440-48-4	
Copper	**3.2J**	ug/L	5.0	0.30	1	10/17/07 14:15	10/22/07 19:19	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	10/17/07 14:15	10/22/07 19:19	7439-92-1	
Nickel	**10.4**	ug/L	5.0	1.7	1	10/17/07 14:15	10/22/07 19:19	7440-02-0	
Selenium	**23.0**	ug/L	10.0	3.8	1	10/17/07 14:15	10/22/07 19:19	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	10/17/07 14:15	10/22/07 19:19	7440-22-4	
Thallium	**5.2J**	ug/L	5.5	3.0	1	10/17/07 14:15	10/22/07 19:19	7440-28-0	
Vanadium	**15.5**	ug/L	5.0	0.20	1	10/17/07 14:15	10/22/07 19:19	7440-62-2	
Zinc	**42.3**	ug/L	10.0	0.40	1	10/17/07 14:15	10/22/07 19:19	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.20**	ug/L	0.20	0.090	1	10/22/07 14:07	10/23/07 10:43	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		10/16/07 07:16	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/16/07 07:16	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/16/07 07:16	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/16/07 07:16	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/16/07 07:16	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/16/07 07:16	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		10/16/07 07:16	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/16/07 07:16	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/16/07 07:16	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/16/07 07:16	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/16/07 07:16	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/16/07 07:16	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/16/07 07:16	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/16/07 07:16	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		10/16/07 07:16	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/16/07 07:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/16/07 07:16	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/16/07 07:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/16/07 07:16	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/16/07 07:16	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/16/07 07:16	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/16/07 07:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/16/07 07:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/16/07 07:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/16/07 07:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/16/07 07:16	156-60-5	

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ANALYTICAL RESULTS

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

Sample: MW-03 **Lab ID: 925531003** Collected: 10/10/07 12:30 Received: 10/11/07 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/16/07 07:16	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/16/07 07:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/16/07 07:16	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/16/07 07:16	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/16/07 07:16	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/16/07 07:16	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/16/07 07:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/16/07 07:16	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		10/16/07 07:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/16/07 07:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/16/07 07:16	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/16/07 07:16	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/16/07 07:16	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/16/07 07:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/16/07 07:16	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/16/07 07:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/16/07 07:16	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/16/07 07:16	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/16/07 07:16	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/16/07 07:16	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/16/07 07:16	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/16/07 07:16	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		10/16/07 07:16	95-47-6	
4-Bromofluorobenzene (S)	100	%	87-109		1		10/16/07 07:16	460-00-4	
Dibromofluoromethane (S)	109	%	85-115		1		10/16/07 07:16	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	79-120		1		10/16/07 07:16	17060-07-0	
Toluene-d8 (S)	102	%	70-120		1		10/16/07 07:16	2037-26-5	

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ANALYTICAL RESULTS

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

Sample: MW-04 **Lab ID: 925531004** Collected: 10/10/07 12:11 Received: 10/11/07 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP NC Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	10/17/07 14:15	10/22/07 19:24	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	10/17/07 14:15	10/22/07 19:24	7440-38-2	
Barium	**154**	ug/L	5.0	0.20	1	10/17/07 14:15	10/22/07 19:24	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	10/17/07 14:15	10/22/07 19:24	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	10/17/07 14:15	10/22/07 19:24	7440-43-9	
Chromium	**6.5**	ug/L	5.0	0.40	1	10/17/07 14:15	10/22/07 19:24	7440-47-3	
Cobalt	**1.3J**	ug/L	5.0	0.60	1	10/17/07 14:15	10/22/07 19:24	7440-48-4	
Copper	**1.9J**	ug/L	5.0	0.30	1	10/17/07 14:15	10/22/07 19:24	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	10/17/07 14:15	10/22/07 19:24	7439-92-1	
Nickel	**4.8J**	ug/L	5.0	1.7	1	10/17/07 14:15	10/22/07 19:24	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	10/17/07 14:15	10/22/07 19:24	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	10/17/07 14:15	10/22/07 19:24	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	10/17/07 14:15	10/22/07 19:24	7440-28-0	
Vanadium	**12.9**	ug/L	5.0	0.20	1	10/17/07 14:15	10/22/07 19:24	7440-62-2	
Zinc	**18.8**	ug/L	10.0	0.40	1	10/17/07 14:15	10/22/07 19:24	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.090	1	10/22/07 14:07	10/23/07 10:45	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		10/16/07 07:40	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/16/07 07:40	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/16/07 07:40	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/16/07 07:40	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/16/07 07:40	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/16/07 07:40	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		10/16/07 07:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/16/07 07:40	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/16/07 07:40	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/16/07 07:40	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/16/07 07:40	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/16/07 07:40	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/16/07 07:40	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/16/07 07:40	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		10/16/07 07:40	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/16/07 07:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/16/07 07:40	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/16/07 07:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/16/07 07:40	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/16/07 07:40	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/16/07 07:40	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/16/07 07:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/16/07 07:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/16/07 07:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/16/07 07:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/16/07 07:40	156-60-5	

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ANALYTICAL RESULTS

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

Sample: MW-04 **Lab ID: 925531004** Collected: 10/10/07 12:11 Received: 10/11/07 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/16/07 07:40	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/16/07 07:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/16/07 07:40	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/16/07 07:40	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/16/07 07:40	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/16/07 07:40	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/16/07 07:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/16/07 07:40	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		10/16/07 07:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/16/07 07:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/16/07 07:40	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/16/07 07:40	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/16/07 07:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/16/07 07:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/16/07 07:40	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/16/07 07:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/16/07 07:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/16/07 07:40	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/16/07 07:40	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/16/07 07:40	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/16/07 07:40	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/16/07 07:40	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		10/16/07 07:40	95-47-6	
4-Bromofluorobenzene (S)	99	%	87-109		1		10/16/07 07:40	460-00-4	
Dibromofluoromethane (S)	105	%	85-115		1		10/16/07 07:40	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	79-120		1		10/16/07 07:40	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		10/16/07 07:40	2037-26-5	

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ANALYTICAL RESULTS

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

Sample: MW-05 **Lab ID: 925531005** Collected: 10/10/07 11:02 Received: 10/11/07 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP NC Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Antimony	**2.6J**	ug/L	5.0	2.6	1	10/17/07 14:15	10/22/07 19:27	7440-36-0	
Arsenic	ND	ug/L	5.0	2.7	1	10/17/07 14:15	10/22/07 19:27	7440-38-2	
Barium	**807**	ug/L	5.0	0.20	1	10/17/07 14:15	10/22/07 19:27	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	10/17/07 14:15	10/22/07 19:27	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	10/17/07 14:15	10/22/07 19:27	7440-43-9	
Chromium	**121**	ug/L	5.0	0.40	1	10/17/07 14:15	10/22/07 19:27	7440-47-3	
Cobalt	**66.7**	ug/L	5.0	0.60	1	10/17/07 14:15	10/22/07 19:27	7440-48-4	
Copper	**74.1**	ug/L	5.0	0.30	1	10/17/07 14:15	10/22/07 19:27	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	10/17/07 14:15	10/22/07 19:27	7439-92-1	
Nickel	**91.1**	ug/L	5.0	1.7	1	10/17/07 14:15	10/22/07 19:27	7440-02-0	
Selenium	**17.4**	ug/L	10.0	3.8	1	10/17/07 14:15	10/22/07 19:27	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	10/17/07 14:15	10/22/07 19:27	7440-22-4	
Thallium	**18.1**	ug/L	5.5	3.0	1	10/17/07 14:15	10/22/07 19:27	7440-28-0	
Vanadium	**108**	ug/L	5.0	0.20	1	10/17/07 14:15	10/22/07 19:27	7440-62-2	
Zinc	**132**	ug/L	10.0	0.40	1	10/17/07 14:15	10/22/07 19:27	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.090	1	10/22/07 14:07	10/23/07 10:53	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		10/16/07 08:04	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/16/07 08:04	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/16/07 08:04	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/16/07 08:04	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/16/07 08:04	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/16/07 08:04	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		10/16/07 08:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/16/07 08:04	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/16/07 08:04	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/16/07 08:04	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/16/07 08:04	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/16/07 08:04	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/16/07 08:04	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/16/07 08:04	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		10/16/07 08:04	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/16/07 08:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/16/07 08:04	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/16/07 08:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/16/07 08:04	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/16/07 08:04	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/16/07 08:04	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/16/07 08:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/16/07 08:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/16/07 08:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/16/07 08:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/16/07 08:04	156-60-5	

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ANALYTICAL RESULTS

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

Sample: MW-05 **Lab ID: 925531005** Collected: 10/10/07 11:02 Received: 10/11/07 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/16/07 08:04	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/16/07 08:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/16/07 08:04	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/16/07 08:04	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/16/07 08:04	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/16/07 08:04	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/16/07 08:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/16/07 08:04	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		10/16/07 08:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/16/07 08:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/16/07 08:04	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/16/07 08:04	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/16/07 08:04	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/16/07 08:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/16/07 08:04	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/16/07 08:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/16/07 08:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/16/07 08:04	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/16/07 08:04	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/16/07 08:04	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/16/07 08:04	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/16/07 08:04	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		10/16/07 08:04	95-47-6	
4-Bromofluorobenzene (S)	98	%	87-109		1		10/16/07 08:04	460-00-4	
Dibromofluoromethane (S)	104	%	85-115		1		10/16/07 08:04	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	79-120		1		10/16/07 08:04	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		10/16/07 08:04	2037-26-5	

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ANALYTICAL RESULTS

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

Sample: MW-7R **Lab ID: 925531006** Collected: 10/10/07 15:43 Received: 10/11/07 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP NC Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	10/17/07 14:15	10/22/07 19:38	7440-36-0	
Arsenic	**91.6**	ug/L	5.0	2.7	1	10/17/07 14:15	10/22/07 19:38	7440-38-2	
Barium	**2320**	ug/L	5.0	0.20	1	10/17/07 14:15	10/22/07 19:38	7440-39-3	
Beryllium	**2.6**	ug/L	1.0	0.10	1	10/17/07 14:15	10/22/07 19:38	7440-41-7	
Cadmium	**0.70J**	ug/L	1.0	0.50	1	10/17/07 14:15	10/22/07 19:38	7440-43-9	
Chromium	**231**	ug/L	5.0	0.40	1	10/17/07 14:15	10/22/07 19:38	7440-47-3	
Cobalt	**81.5**	ug/L	5.0	0.60	1	10/17/07 14:15	10/22/07 19:38	7440-48-4	
Copper	**71.6**	ug/L	5.0	0.30	1	10/17/07 14:15	10/22/07 19:38	7440-50-8	
Lead	**42.9**	ug/L	5.0	4.0	1	10/17/07 14:15	10/22/07 19:38	7439-92-1	
Nickel	**79.2**	ug/L	5.0	1.7	1	10/17/07 14:15	10/22/07 19:38	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	10/17/07 14:15	10/22/07 19:38	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	10/17/07 14:15	10/22/07 19:38	7440-22-4	
Thallium	**9.2**	ug/L	5.5	3.0	1	10/17/07 14:15	10/22/07 19:38	7440-28-0	
Vanadium	**351**	ug/L	5.0	0.20	1	10/17/07 14:15	10/22/07 19:38	7440-62-2	
Zinc	**583**	ug/L	10.0	0.40	1	10/17/07 14:15	10/22/07 19:38	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.13J**	ug/L	0.20	0.090	1	10/22/07 14:07	10/23/07 10:55	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		10/16/07 08:27	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/16/07 08:27	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/16/07 08:27	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/16/07 08:27	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/16/07 08:27	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/16/07 08:27	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		10/16/07 08:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/16/07 08:27	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/16/07 08:27	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/16/07 08:27	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/16/07 08:27	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/16/07 08:27	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/16/07 08:27	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/16/07 08:27	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		10/16/07 08:27	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/16/07 08:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/16/07 08:27	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/16/07 08:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/16/07 08:27	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/16/07 08:27	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/16/07 08:27	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/16/07 08:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/16/07 08:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/16/07 08:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/16/07 08:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/16/07 08:27	156-60-5	

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ANALYTICAL RESULTS

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

Sample: MW-7R **Lab ID: 925531006** Collected: 10/10/07 15:43 Received: 10/11/07 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/16/07 08:27	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/16/07 08:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/16/07 08:27	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/16/07 08:27	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/16/07 08:27	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/16/07 08:27	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/16/07 08:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/16/07 08:27	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		10/16/07 08:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/16/07 08:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/16/07 08:27	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/16/07 08:27	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/16/07 08:27	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/16/07 08:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/16/07 08:27	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/16/07 08:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/16/07 08:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/16/07 08:27	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/16/07 08:27	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/16/07 08:27	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/16/07 08:27	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/16/07 08:27	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		10/16/07 08:27	95-47-6	
4-Bromofluorobenzene (S)	98	%	87-109		1		10/16/07 08:27	460-00-4	
Dibromofluoromethane (S)	106	%	85-115		1		10/16/07 08:27	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	79-120		1		10/16/07 08:27	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		10/16/07 08:27	2037-26-5	

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ANALYTICAL RESULTS

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

Sample: MW-08 **Lab ID: 925531007** Collected: 10/10/07 15:04 Received: 10/11/07 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP NC Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	10/17/07 14:15	10/22/07 19:43	7440-36-0	
Arsenic	**8.1**	ug/L	5.0	2.7	1	10/17/07 14:15	10/22/07 19:43	7440-38-2	
Barium	**693**	ug/L	5.0	0.20	1	10/17/07 14:15	10/22/07 19:43	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	10/17/07 14:15	10/22/07 19:43	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	10/17/07 14:15	10/22/07 19:43	7440-43-9	
Chromium	**27.2**	ug/L	5.0	0.40	1	10/17/07 14:15	10/22/07 19:43	7440-47-3	
Cobalt	**130**	ug/L	5.0	0.60	1	10/17/07 14:15	10/22/07 19:43	7440-48-4	
Copper	**111**	ug/L	5.0	0.30	1	10/17/07 14:15	10/22/07 19:43	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	10/17/07 14:15	10/22/07 19:43	7439-92-1	
Nickel	**119**	ug/L	5.0	1.7	1	10/17/07 14:15	10/22/07 19:43	7440-02-0	
Selenium	**23.3**	ug/L	10.0	3.8	1	10/17/07 14:15	10/22/07 19:43	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	10/17/07 14:15	10/22/07 19:43	7440-22-4	
Thallium	**27.1**	ug/L	5.5	3.0	1	10/17/07 14:15	10/22/07 19:43	7440-28-0	
Vanadium	**303**	ug/L	5.0	0.20	1	10/17/07 14:15	10/22/07 19:43	7440-62-2	
Zinc	**253**	ug/L	10.0	0.40	1	10/17/07 14:15	10/22/07 19:43	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.090	1	10/22/07 14:07	10/23/07 10:58	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		10/16/07 08:51	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/16/07 08:51	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/16/07 08:51	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/16/07 08:51	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/16/07 08:51	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/16/07 08:51	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		10/16/07 08:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/16/07 08:51	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/16/07 08:51	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/16/07 08:51	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/16/07 08:51	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/16/07 08:51	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/16/07 08:51	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/16/07 08:51	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		10/16/07 08:51	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/16/07 08:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/16/07 08:51	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/16/07 08:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/16/07 08:51	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/16/07 08:51	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/16/07 08:51	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/16/07 08:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/16/07 08:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/16/07 08:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/16/07 08:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/16/07 08:51	156-60-5	

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ANALYTICAL RESULTS

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

Sample: MW-08 **Lab ID: 925531007** Collected: 10/10/07 15:04 Received: 10/11/07 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/16/07 08:51	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/16/07 08:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/16/07 08:51	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/16/07 08:51	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/16/07 08:51	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/16/07 08:51	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/16/07 08:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/16/07 08:51	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		10/16/07 08:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/16/07 08:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/16/07 08:51	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/16/07 08:51	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/16/07 08:51	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/16/07 08:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/16/07 08:51	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/16/07 08:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/16/07 08:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/16/07 08:51	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/16/07 08:51	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/16/07 08:51	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/16/07 08:51	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/16/07 08:51	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		10/16/07 08:51	95-47-6	
4-Bromofluorobenzene (S)	98	%	87-109		1		10/16/07 08:51	460-00-4	
Dibromofluoromethane (S)	109	%	85-115		1		10/16/07 08:51	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	79-120		1		10/16/07 08:51	17060-07-0	
Toluene-d8 (S)	102	%	70-120		1		10/16/07 08:51	2037-26-5	

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ANALYTICAL RESULTS

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

Sample: MW-09 **Lab ID: 925531008** Collected: 10/10/07 13:50 Received: 10/11/07 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP NC Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	10/17/07 14:15	10/22/07 19:47	7440-36-0	
Arsenic	**3.0J**	ug/L	5.0	2.7	1	10/17/07 14:15	10/22/07 19:47	7440-38-2	
Barium	**1010**	ug/L	5.0	0.20	1	10/17/07 14:15	10/22/07 19:47	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	10/17/07 14:15	10/22/07 19:47	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	10/17/07 14:15	10/22/07 19:47	7440-43-9	
Chromium	ND	ug/L	5.0	0.40	1	10/17/07 14:15	10/22/07 19:47	7440-47-3	
Cobalt	**53.1**	ug/L	5.0	0.60	1	10/17/07 14:15	10/22/07 19:47	7440-48-4	
Copper	**40.0**	ug/L	5.0	0.30	1	10/17/07 14:15	10/22/07 19:47	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	10/17/07 14:15	10/22/07 19:47	7439-92-1	
Nickel	**23.2**	ug/L	5.0	1.7	1	10/17/07 14:15	10/22/07 19:47	7440-02-0	
Selenium	**20.5**	ug/L	10.0	3.8	1	10/17/07 14:15	10/22/07 19:47	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	10/17/07 14:15	10/22/07 19:47	7440-22-4	
Thallium	**25.2**	ug/L	5.5	3.0	1	10/17/07 14:15	10/22/07 19:47	7440-28-0	
Vanadium	**142**	ug/L	5.0	0.20	1	10/17/07 14:15	10/22/07 19:47	7440-62-2	
Zinc	**174**	ug/L	10.0	0.40	1	10/17/07 14:15	10/22/07 19:47	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.090	1	10/22/07 14:07	10/23/07 11:00	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		10/16/07 09:15	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/16/07 09:15	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/16/07 09:15	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/16/07 09:15	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/16/07 09:15	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/16/07 09:15	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		10/16/07 09:15	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/16/07 09:15	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/16/07 09:15	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/16/07 09:15	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/16/07 09:15	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/16/07 09:15	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/16/07 09:15	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/16/07 09:15	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		10/16/07 09:15	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/16/07 09:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/16/07 09:15	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/16/07 09:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/16/07 09:15	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/16/07 09:15	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/16/07 09:15	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/16/07 09:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/16/07 09:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/16/07 09:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/16/07 09:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/16/07 09:15	156-60-5	

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ANALYTICAL RESULTS

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

Sample: MW-09 **Lab ID: 925531008** Collected: 10/10/07 13:50 Received: 10/11/07 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/16/07 09:15	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/16/07 09:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/16/07 09:15	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/16/07 09:15	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/16/07 09:15	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/16/07 09:15	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/16/07 09:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/16/07 09:15	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		10/16/07 09:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/16/07 09:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/16/07 09:15	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/16/07 09:15	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/16/07 09:15	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/16/07 09:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/16/07 09:15	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/16/07 09:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/16/07 09:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/16/07 09:15	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/16/07 09:15	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/16/07 09:15	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/16/07 09:15	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/16/07 09:15	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		10/16/07 09:15	95-47-6	
4-Bromofluorobenzene (S)	98	%	87-109		1		10/16/07 09:15	460-00-4	
Dibromofluoromethane (S)	107	%	85-115		1		10/16/07 09:15	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	79-120		1		10/16/07 09:15	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		10/16/07 09:15	2037-26-5	

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ANALYTICAL RESULTS

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

Sample: SW-02R **Lab ID: 925531009** Collected: 10/10/07 14:43 Received: 10/11/07 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP NC Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	10/17/07 14:15	10/22/07 19:51	7440-36-0	
Arsenic	**3.6J**	ug/L	5.0	2.7	1	10/17/07 14:15	10/22/07 19:51	7440-38-2	
Barium	**138**	ug/L	5.0	0.20	1	10/17/07 14:15	10/22/07 19:51	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	10/17/07 14:15	10/22/07 19:51	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	10/17/07 14:15	10/22/07 19:51	7440-43-9	
Chromium	ND	ug/L	5.0	0.40	1	10/17/07 14:15	10/22/07 19:51	7440-47-3	
Cobalt	ND	ug/L	5.0	0.60	1	10/17/07 14:15	10/22/07 19:51	7440-48-4	
Copper	**2.6J**	ug/L	5.0	0.30	1	10/17/07 14:15	10/22/07 19:51	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	10/17/07 14:15	10/22/07 19:51	7439-92-1	
Nickel	ND	ug/L	5.0	1.7	1	10/17/07 14:15	10/22/07 19:51	7440-02-0	
Selenium	**16.4**	ug/L	10.0	3.8	1	10/17/07 14:15	10/22/07 19:51	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	10/17/07 14:15	10/22/07 19:51	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	10/17/07 14:15	10/22/07 19:51	7440-28-0	
Vanadium	**4.8J**	ug/L	5.0	0.20	1	10/17/07 14:15	10/22/07 19:51	7440-62-2	
Zinc	**37.9**	ug/L	10.0	0.40	1	10/17/07 14:15	10/22/07 19:51	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.090	1	10/22/07 14:07	10/23/07 11:03	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		10/15/07 15:26	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/15/07 15:26	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/15/07 15:26	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/15/07 15:26	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/15/07 15:26	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/15/07 15:26	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		10/15/07 15:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/15/07 15:26	78-93-3	
Carbon disulfide	**1.4J**	ug/L	2.0	1.2	1		10/15/07 15:26	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/15/07 15:26	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/15/07 15:26	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/15/07 15:26	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/15/07 15:26	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/15/07 15:26	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		10/15/07 15:26	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/15/07 15:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/15/07 15:26	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/15/07 15:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/15/07 15:26	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/15/07 15:26	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/15/07 15:26	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/15/07 15:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/15/07 15:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/15/07 15:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/15/07 15:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/15/07 15:26	156-60-5	

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ANALYTICAL RESULTS

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

Sample: SW-02R **Lab ID: 925531009** Collected: 10/10/07 14:43 Received: 10/11/07 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/15/07 15:26	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/15/07 15:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/15/07 15:26	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/15/07 15:26	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/15/07 15:26	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/15/07 15:26	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/15/07 15:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/15/07 15:26	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		10/15/07 15:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/15/07 15:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/15/07 15:26	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/15/07 15:26	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/15/07 15:26	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/15/07 15:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/15/07 15:26	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/15/07 15:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/15/07 15:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/15/07 15:26	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/15/07 15:26	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/15/07 15:26	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/15/07 15:26	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/15/07 15:26	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		10/15/07 15:26	95-47-6	
4-Bromofluorobenzene (S)	97	%	87-109		1		10/15/07 15:26	460-00-4	
Dibromofluoromethane (S)	102	%	85-115		1		10/15/07 15:26	1868-53-7	
1,2-Dichloroethane-d4 (S)	96	%	79-120		1		10/15/07 15:26	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		10/15/07 15:26	2037-26-5	

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ANALYTICAL RESULTS

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

Sample: TRIP BLANK **Lab ID: 925531010** Collected: 10/10/07 00:00 Received: 10/11/07 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		10/16/07 01:20	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/16/07 01:20	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/16/07 01:20	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/16/07 01:20	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/16/07 01:20	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/16/07 01:20	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		10/16/07 01:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/16/07 01:20	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/16/07 01:20	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/16/07 01:20	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/16/07 01:20	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/16/07 01:20	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/16/07 01:20	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/16/07 01:20	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		10/16/07 01:20	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/16/07 01:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/16/07 01:20	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/16/07 01:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/16/07 01:20	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/16/07 01:20	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/16/07 01:20	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/16/07 01:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/16/07 01:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/16/07 01:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/16/07 01:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/16/07 01:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/16/07 01:20	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/16/07 01:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/16/07 01:20	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/16/07 01:20	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/16/07 01:20	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/16/07 01:20	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/16/07 01:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/16/07 01:20	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		10/16/07 01:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/16/07 01:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/16/07 01:20	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/16/07 01:20	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/16/07 01:20	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/16/07 01:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/16/07 01:20	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/16/07 01:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/16/07 01:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/16/07 01:20	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/16/07 01:20	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/16/07 01:20	75-01-4	

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ANALYTICAL RESULTS

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

Sample: TRIP BLANK **Lab ID: 925531010** Collected: 10/10/07 00:00 Received: 10/11/07 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
	Analytical Method: EPA 8260								
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/16/07 01:20	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/16/07 01:20	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		10/16/07 01:20	95-47-6	
4-Bromofluorobenzene (S)	99	%	87-109		1		10/16/07 01:20	460-00-4	
Dibromofluoromethane (S)	107	%	85-115		1		10/16/07 01:20	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	79-120		1		10/16/07 01:20	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		10/16/07 01:20	2037-26-5	

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ANALYTICAL RESULTS

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

Sample: SW-01 **Lab ID: 925531011** Collected: 10/11/07 10:50 Received: 10/11/07 16:43 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP NC Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	10/17/07 14:15	10/22/07 19:55	7440-36-0	
Arsenic	**3.4J**	ug/L	5.0	2.7	1	10/17/07 14:15	10/22/07 19:55	7440-38-2	
Barium	**234**	ug/L	5.0	0.20	1	10/17/07 14:15	10/22/07 19:55	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	10/17/07 14:15	10/22/07 19:55	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	10/17/07 14:15	10/22/07 19:55	7440-43-9	
Chromium	**6.2**	ug/L	5.0	0.40	1	10/17/07 14:15	10/22/07 19:55	7440-47-3	
Cobalt	**17.7**	ug/L	5.0	0.60	1	10/17/07 14:15	10/22/07 19:55	7440-48-4	
Copper	**5.9**	ug/L	5.0	0.30	1	10/17/07 14:15	10/22/07 19:55	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	10/17/07 14:15	10/22/07 19:55	7439-92-1	
Nickel	**4.8J**	ug/L	5.0	1.7	1	10/17/07 14:15	10/22/07 19:55	7440-02-0	
Selenium	**7.9J**	ug/L	10.0	3.8	1	10/17/07 14:15	10/22/07 19:55	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	10/17/07 14:15	10/22/07 19:55	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	10/17/07 14:15	10/22/07 19:55	7440-28-0	
Vanadium	**19.1**	ug/L	5.0	0.20	1	10/17/07 14:15	10/22/07 19:55	7440-62-2	
Zinc	**67.7**	ug/L	10.0	0.40	1	10/17/07 14:15	10/22/07 19:55	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.090	1	10/22/07 14:07	10/23/07 11:05	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	2.2	1		10/15/07 15:50	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/15/07 15:50	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/15/07 15:50	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/15/07 15:50	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/15/07 15:50	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/15/07 15:50	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		10/15/07 15:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/15/07 15:50	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/15/07 15:50	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/15/07 15:50	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/15/07 15:50	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/15/07 15:50	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/15/07 15:50	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/15/07 15:50	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		10/15/07 15:50	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/15/07 15:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/15/07 15:50	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/15/07 15:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/15/07 15:50	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/15/07 15:50	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/15/07 15:50	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/15/07 15:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/15/07 15:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/15/07 15:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/15/07 15:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/15/07 15:50	156-60-5	

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ANALYTICAL RESULTS

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

Sample: SW-01 **Lab ID: 925531011** Collected: 10/11/07 10:50 Received: 10/11/07 16:43 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/15/07 15:50	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/15/07 15:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/15/07 15:50	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/15/07 15:50	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/15/07 15:50	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/15/07 15:50	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/15/07 15:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/15/07 15:50	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		10/15/07 15:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/15/07 15:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/15/07 15:50	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/15/07 15:50	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/15/07 15:50	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/15/07 15:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/15/07 15:50	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/15/07 15:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/15/07 15:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/15/07 15:50	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/15/07 15:50	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/15/07 15:50	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/15/07 15:50	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/15/07 15:50	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		10/15/07 15:50	95-47-6	
4-Bromofluorobenzene (S)	98	%	87-109		1		10/15/07 15:50	460-00-4	
Dibromofluoromethane (S)	102	%	85-115		1		10/15/07 15:50	1868-53-7	
1,2-Dichloroethane-d4 (S)	97	%	79-120		1		10/15/07 15:50	17060-07-0	
Toluene-d8 (S)	99	%	70-120		1		10/15/07 15:50	2037-26-5	

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ANALYTICAL RESULTS

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

Sample: LP-1 **Lab ID: 925531012** Collected: 10/11/07 11:40 Received: 10/11/07 16:43 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP NC Groundwater	Analytical Method: EPA 6010 GW North Carolina Preparation Method: EPA 3010								
Antimony	ND	ug/L	5.0	2.6	1	10/17/07 14:15	10/22/07 19:59	7440-36-0	
Arsenic	**2.8J**	ug/L	5.0	2.7	1	10/17/07 14:15	10/22/07 19:59	7440-38-2	
Barium	**113**	ug/L	5.0	0.20	1	10/17/07 14:15	10/22/07 19:59	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	10/17/07 14:15	10/22/07 19:59	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	10/17/07 14:15	10/22/07 19:59	7440-43-9	
Chromium	**4.4J**	ug/L	5.0	0.40	1	10/17/07 14:15	10/22/07 19:59	7440-47-3	
Cobalt	**8.8**	ug/L	5.0	0.60	1	10/17/07 14:15	10/22/07 19:59	7440-48-4	
Copper	**1.2J**	ug/L	5.0	0.30	1	10/17/07 14:15	10/22/07 19:59	7440-50-8	
Lead	ND	ug/L	5.0	4.0	1	10/17/07 14:15	10/22/07 19:59	7439-92-1	
Nickel	**29.0**	ug/L	5.0	1.7	1	10/17/07 14:15	10/22/07 19:59	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	10/17/07 14:15	10/22/07 19:59	7782-49-2	
Silver	ND	ug/L	5.0	0.10	1	10/17/07 14:15	10/22/07 19:59	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	10/17/07 14:15	10/22/07 19:59	7440-28-0	
Vanadium	**6.8**	ug/L	5.0	0.20	1	10/17/07 14:15	10/22/07 19:59	7440-62-2	
Zinc	**14.5**	ug/L	10.0	0.40	1	10/17/07 14:15	10/22/07 19:59	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.89**	ug/L	0.20	0.090	1	10/22/07 14:07	10/23/07 11:08	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**11.8J**	ug/L	25.0	2.2	1		10/15/07 16:14	67-64-1	
Acrylonitrile	ND	ug/L	10.0	1.9	1		10/15/07 16:14	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		10/15/07 16:14	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/15/07 16:14	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/15/07 16:14	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/15/07 16:14	75-25-2	
Bromomethane	ND	ug/L	5.0	0.29	1		10/15/07 16:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/15/07 16:14	78-93-3	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/15/07 16:14	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/15/07 16:14	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/15/07 16:14	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/15/07 16:14	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/15/07 16:14	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/15/07 16:14	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	3.0	2.5	1		10/15/07 16:14	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/15/07 16:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/15/07 16:14	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/15/07 16:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/15/07 16:14	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/15/07 16:14	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	1.0	1		10/15/07 16:14	110-57-6	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/15/07 16:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/15/07 16:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/15/07 16:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/15/07 16:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/15/07 16:14	156-60-5	

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ANALYTICAL RESULTS

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

Sample: LP-1 **Lab ID: 925531012** Collected: 10/11/07 11:40 Received: 10/11/07 16:43 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/15/07 16:14	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/15/07 16:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/15/07 16:14	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/15/07 16:14	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/15/07 16:14	591-78-6	
Iodomethane	ND	ug/L	5.0	0.32	1		10/15/07 16:14	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/15/07 16:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/15/07 16:14	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		10/15/07 16:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/15/07 16:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/15/07 16:14	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/15/07 16:14	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/15/07 16:14	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/15/07 16:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/15/07 16:14	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/15/07 16:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/15/07 16:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/15/07 16:14	96-18-4	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/15/07 16:14	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/15/07 16:14	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/15/07 16:14	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/15/07 16:14	1330-20-7	
o-Xylene	ND	ug/L	1.0	0.23	1		10/15/07 16:14	95-47-6	
4-Bromofluorobenzene (S)	99	%	87-109		1		10/15/07 16:14	460-00-4	
Dibromofluoromethane (S)	103	%	85-115		1		10/15/07 16:14	1868-53-7	
1,2-Dichloroethane-d4 (S)	96	%	79-120		1		10/15/07 16:14	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		10/15/07 16:14	2037-26-5	
5210B BOD, Low Level	Analytical Method: SM 5210B								
BOD, 5 day	**69.0**	mg/L	2.0		1	10/12/07 15:15	10/17/07 19:30		
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.10	1		10/12/07 09:24		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1								
Phosphorus	**0.48**	mg/L	0.10	0.10	1		10/15/07 21:17	7723-14-0	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	**476**	mg/L	25.0	25.0	1		10/19/07 10:30		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02								
Sulfate	ND	mg/L	5.0	5.0	1		10/17/07 09:34	14808-79-8	

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QUALITY CONTROL DATA

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

QC Batch: WETA/1354
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 925531012

METHOD BLANK: 27089
Associated Lab Samples: 925531012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	

LABORATORY CONTROL SAMPLE: 27090

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	5	5.2	105	90-110	

MATRIX SPIKE SAMPLE: 27091

Parameter	Units	925605001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	5	5.7	115	75-125	

SAMPLE DUPLICATE: 27094

Parameter	Units	925568001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	14.1	14.3	1	20	

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QUALITY CONTROL DATA

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

QC Batch: WET/1701
QC Batch Method: SM 5210B
Analysis Method: SM 5210B
Analysis Description: 5210B BOD, Low Level
Associated Lab Samples: 925531012

METHOD BLANK: 27443
Associated Lab Samples: 925531012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
BOD, 5 day	mg/L	0.0J	2.0	

LABORATORY CONTROL SAMPLE: 27444

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	204	103	84-115	

SAMPLE DUPLICATE: 27445

Parameter	Units	925564002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	70.1	73.9	5	20	

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QUALITY CONTROL DATA

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

QC Batch: WETA/1367
QC Batch Method: EPA 365.1
Analysis Method: EPA 365.1
Analysis Description: 365.1 Phosphorus, Total
Associated Lab Samples: 925531012

METHOD BLANK: 27759
Associated Lab Samples: 925531012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Phosphorus	mg/L	ND	0.10	

LABORATORY CONTROL SAMPLE: 27760

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	1	0.94	94	80-120	

MATRIX SPIKE SAMPLE: 27761

Parameter	Units	925346005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	7.3	1	8.0	69	75-125	M0

SAMPLE DUPLICATE: 27762

Parameter	Units	925531012 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus	mg/L	0.48	0.41	14	20	

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QUALITY CONTROL DATA

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

QC Batch: MSV/1528 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 925531001, 925531002, 925531003, 925531004, 925531005, 925531006, 925531007, 925531008, 925531010

METHOD BLANK: 27778
Associated Lab Samples: 925531001, 925531002, 925531003, 925531004, 925531005, 925531006, 925531007, 925531008, 925531010

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	
1,1,1-Trichloroethane	ug/L	ND	1.0	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	
1,1,2-Trichloroethane	ug/L	ND	1.0	
1,1-Dichloroethane	ug/L	ND	1.0	
1,1-Dichloroethene	ug/L	ND	1.0	
1,2,3-Trichloropropane	ug/L	ND	1.0	
1,2-Dibromo-3-chloropropane	ug/L	ND	3.0	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	
1,2-Dichlorobenzene	ug/L	ND	1.0	
1,2-Dichloroethane	ug/L	ND	1.0	
1,2-Dichloropropane	ug/L	ND	1.0	
1,4-Dichlorobenzene	ug/L	ND	1.0	
2-Butanone (MEK)	ug/L	ND	5.0	
2-Hexanone	ug/L	ND	5.0	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	
Acetone	ug/L	ND	25.0	
Acrylonitrile	ug/L	ND	10.0	
Benzene	ug/L	ND	1.0	
Bromochloromethane	ug/L	ND	1.0	
Bromodichloromethane	ug/L	ND	1.0	
Bromoform	ug/L	ND	1.0	
Bromomethane	ug/L	ND	5.0	
Carbon disulfide	ug/L	ND	2.0	
Carbon tetrachloride	ug/L	ND	1.0	
Chlorobenzene	ug/L	ND	1.0	
Chloroethane	ug/L	ND	1.0	
Chloroform	ug/L	ND	1.0	
Chloromethane	ug/L	ND	1.0	
cis-1,2-Dichloroethene	ug/L	ND	1.0	
cis-1,3-Dichloropropene	ug/L	ND	1.0	
Dibromochloromethane	ug/L	ND	1.0	
Dibromomethane	ug/L	ND	1.0	
Ethylbenzene	ug/L	ND	1.0	
Iodomethane	ug/L	ND	5.0	
m&p-Xylene	ug/L	ND	2.0	
Methylene Chloride	ug/L	ND	2.0	
o-Xylene	ug/L	ND	1.0	
Styrene	ug/L	ND	1.0	
Tetrachloroethene	ug/L	ND	1.0	
Toluene	ug/L	ND	1.0	
trans-1,2-Dichloroethene	ug/L	ND	1.0	
trans-1,3-Dichloropropene	ug/L	ND	1.0	

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(704)875-9092

QUALITY CONTROL DATA

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

METHOD BLANK: 27778

Associated Lab Samples: 925531001, 925531002, 925531003, 925531004, 925531005, 925531006, 925531007, 925531008, 925531010

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
trans-1,4-Dichloro-2-butene	ug/L	ND	1.0	
Trichloroethene	ug/L	ND	1.0	
Trichlorofluoromethane	ug/L	ND	1.0	
Vinyl acetate	ug/L	ND	2.0	
Vinyl chloride	ug/L	ND	1.0	
Xylene (Total)	ug/L	ND	2.0	
1,2-Dichloroethane-d4 (S)	%	100	79-120	
4-Bromofluorobenzene (S)	%	100	87-109	
Dibromofluoromethane (S)	%	105	85-115	
Toluene-d8 (S)	%	101	70-120	

LABORATORY CONTROL SAMPLE: 27779

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	58.9	118	83-125	
1,1,1-Trichloroethane	ug/L	50	63.8	128	80-129	
1,1,2,2-Tetrachloroethane	ug/L	50	52.6	105	73-127	
1,1,2-Trichloroethane	ug/L	50	56.8	114	77-123	
1,1-Dichloroethane	ug/L	50	54.0	108	76-129	
1,1-Dichloroethene	ug/L	50	69.0	138	78-146	
1,2,3-Trichloropropane	ug/L	50	55.6	111	72-125	
1,2-Dibromo-3-chloropropane	ug/L	50	52.7	105	65-128	
1,2-Dibromoethane (EDB)	ug/L	50	50.7	101	81-125	
1,2-Dichlorobenzene	ug/L	50	57.9	116	82-126	
1,2-Dichloroethane	ug/L	50	60.5	121	72-126	
1,2-Dichloropropane	ug/L	50	59.6	119	80-127	
1,4-Dichlorobenzene	ug/L	50	54.6	109	79-125	
2-Butanone (MEK)	ug/L	100	109	109	50-134	
2-Hexanone	ug/L	100	104	104	58-138	
4-Methyl-2-pentanone (MIBK)	ug/L	100	119	119	70-131	
Acetone	ug/L	100	112	112	50-146	
Acrylonitrile	ug/L	250	261	104	66-124	
Benzene	ug/L	50	60.2	120	78-128	
Bromochloromethane	ug/L	50	51.9	104	73-124	
Bromodichloromethane	ug/L	50	53.0	106	81-125	
Bromoform	ug/L	50	51.2	102	71-125	
Bromomethane	ug/L	50	60.3	121	50-150	
Carbon disulfide	ug/L	50	63.7	127	54-150	
Carbon tetrachloride	ug/L	50	62.7	125	81-137	
Chlorobenzene	ug/L	50	58.4	117	82-126	
Chloroethane	ug/L	50	57.9	116	69-140	
Chloroform	ug/L	50	52.3	105	77-129	
Chloromethane	ug/L	50	49.2	98	54-139	
cis-1,2-Dichloroethene	ug/L	50	56.8	114	76-133	
cis-1,3-Dichloropropene	ug/L	50	53.6	107	76-127	

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QUALITY CONTROL DATA

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

LABORATORY CONTROL SAMPLE: 27779

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	51.0	102	77-125	
Dibromomethane	ug/L	50	55.6	111	77-125	
Ethylbenzene	ug/L	50	58.3	117	80-127	
Iodomethane	ug/L	100	150	150	65-172	
m&p-Xylene	ug/L	100	117	117	82-127	
Methylene Chloride	ug/L	50	56.2	112	67-133	
o-Xylene	ug/L	50	57.6	115	83-124	
Styrene	ug/L	50	54.1	108	80-130	
Tetrachloroethene	ug/L	50	58.4	117	78-128	
Toluene	ug/L	50	59.5	119	76-126	
trans-1,2-Dichloroethene	ug/L	50	65.7	131	78-134	
trans-1,3-Dichloropropene	ug/L	50	52.0	104	75-125	
trans-1,4-Dichloro-2-butene	ug/L	50	55.3	111	51-140	
Trichloroethene	ug/L	50	60.0	120	79-127	
Trichlorofluoromethane	ug/L	50	58.4	117	76-148	
Vinyl acetate	ug/L	100	129	129	50-150	
Vinyl chloride	ug/L	50	63.6	127	67-143	
Xylene (Total)	ug/L	150	183	122	83-125	
1,2-Dichloroethane-d4 (S)	%			102	79-120	
4-Bromofluorobenzene (S)	%			100	87-109	
Dibromofluoromethane (S)	%			104	85-115	
Toluene-d8 (S)	%			101	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 27780 27781

Parameter	Units	925425001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	73.8	56.9	148	114	60-150	26	30	
Benzene	ug/L	6.8	50	50	66.2	52.3	119	91	74-136	23	30	
Chlorobenzene	ug/L	ND	50	50	63.0	50.5	126	101	79-135	22	30	
Toluene	ug/L	0.68J	50	50	59.2	46.6	117	92	73-131	24	30	
Trichloroethene	ug/L	1.7	50	50	60.4	47.6	117	92	73-131	24	30	
1,2-Dichloroethane-d4 (S)	%						102	103	79-120			
4-Bromofluorobenzene (S)	%						99	99	87-109			
Dibromofluoromethane (S)	%						106	107	85-115			
Toluene-d8 (S)	%						101	100	70-120			

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QUALITY CONTROL DATA

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

QC Batch: MSV/1535 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 925531009, 925531011, 925531012

METHOD BLANK: 27953
Associated Lab Samples: 925531009, 925531011, 925531012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	
1,1,1-Trichloroethane	ug/L	ND	1.0	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	
1,1,2-Trichloroethane	ug/L	ND	1.0	
1,1-Dichloroethane	ug/L	ND	1.0	
1,1-Dichloroethene	ug/L	ND	1.0	
1,2,3-Trichloropropane	ug/L	ND	1.0	
1,2-Dibromo-3-chloropropane	ug/L	ND	3.0	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	
1,2-Dichlorobenzene	ug/L	ND	1.0	
1,2-Dichloroethane	ug/L	ND	1.0	
1,2-Dichloropropane	ug/L	ND	1.0	
1,4-Dichlorobenzene	ug/L	ND	1.0	
2-Butanone (MEK)	ug/L	ND	5.0	
2-Hexanone	ug/L	ND	5.0	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	
Acetone	ug/L	ND	25.0	
Acrylonitrile	ug/L	ND	10.0	
Benzene	ug/L	ND	1.0	
Bromochloromethane	ug/L	ND	1.0	
Bromodichloromethane	ug/L	ND	1.0	
Bromoform	ug/L	ND	1.0	
Bromomethane	ug/L	ND	5.0	
Carbon disulfide	ug/L	ND	2.0	
Carbon tetrachloride	ug/L	ND	1.0	
Chlorobenzene	ug/L	ND	1.0	
Chloroethane	ug/L	ND	1.0	
Chloroform	ug/L	ND	1.0	
Chloromethane	ug/L	ND	1.0	
cis-1,2-Dichloroethene	ug/L	ND	1.0	
cis-1,3-Dichloropropene	ug/L	ND	1.0	
Dibromochloromethane	ug/L	ND	1.0	
Dibromomethane	ug/L	ND	1.0	
Ethylbenzene	ug/L	ND	1.0	
Iodomethane	ug/L	ND	5.0	
m&p-Xylene	ug/L	ND	2.0	
Methylene Chloride	ug/L	ND	2.0	
o-Xylene	ug/L	ND	1.0	
Styrene	ug/L	ND	1.0	
Tetrachloroethene	ug/L	ND	1.0	
Toluene	ug/L	ND	1.0	
trans-1,2-Dichloroethene	ug/L	ND	1.0	
trans-1,3-Dichloropropene	ug/L	ND	1.0	

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QUALITY CONTROL DATA

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

METHOD BLANK: 27953

Associated Lab Samples: 925531009, 925531011, 925531012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
trans-1,4-Dichloro-2-butene	ug/L	ND	1.0	
Trichloroethene	ug/L	ND	1.0	
Trichlorofluoromethane	ug/L	ND	1.0	
Vinyl acetate	ug/L	ND	2.0	
Vinyl chloride	ug/L	ND	1.0	
Xylene (Total)	ug/L	ND	2.0	
1,2-Dichloroethane-d4 (S)	%	97	79-120	
4-Bromofluorobenzene (S)	%	98	87-109	
Dibromofluoromethane (S)	%	99	85-115	
Toluene-d8 (S)	%	99	70-120	

LABORATORY CONTROL SAMPLE: 27954

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	55.0	110	83-125	
1,1,1-Trichloroethane	ug/L	50	56.1	112	80-129	
1,1,2,2-Tetrachloroethane	ug/L	50	49.6	99	73-127	
1,1,2-Trichloroethane	ug/L	50	52.1	104	77-123	
1,1-Dichloroethane	ug/L	50	48.4	97	76-129	
1,1-Dichloroethene	ug/L	50	62.1	124	78-146	
1,2,3-Trichloropropane	ug/L	50	51.1	102	72-125	
1,2-Dibromo-3-chloropropane	ug/L	50	47.5	95	65-128	
1,2-Dibromoethane (EDB)	ug/L	50	47.6	95	81-125	
1,2-Dichlorobenzene	ug/L	50	53.7	107	82-126	
1,2-Dichloroethane	ug/L	50	52.2	104	72-126	
1,2-Dichloropropane	ug/L	50	54.5	109	80-127	
1,4-Dichlorobenzene	ug/L	50	51.6	103	79-125	
2-Butanone (MEK)	ug/L	100	127	127	50-134	
2-Hexanone	ug/L	100	114	114	58-138	
4-Methyl-2-pentanone (MIBK)	ug/L	100	110	110	70-131	
Acetone	ug/L	100	161	161	50-146	L3
Acrylonitrile	ug/L	250	237	95	66-124	
Benzene	ug/L	50	55.2	110	78-128	
Bromochloromethane	ug/L	50	43.2	86	73-124	
Bromodichloromethane	ug/L	50	48.6	97	81-125	
Bromoform	ug/L	50	48.0	96	71-125	
Bromomethane	ug/L	50	55.3	111	50-150	
Carbon disulfide	ug/L	50	58.0	116	54-150	
Carbon tetrachloride	ug/L	50	56.7	113	81-137	
Chlorobenzene	ug/L	50	53.9	108	82-126	
Chloroethane	ug/L	50	55.2	110	69-140	
Chloroform	ug/L	50	44.7	89	77-129	
Chloromethane	ug/L	50	48.8	98	54-139	
cis-1,2-Dichloroethene	ug/L	50	44.9	90	76-133	
cis-1,3-Dichloropropene	ug/L	50	49.4	99	76-127	

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QUALITY CONTROL DATA

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

LABORATORY CONTROL SAMPLE: 27954

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	46.9	94	77-125	
Dibromomethane	ug/L	50	43.9	88	77-125	
Ethylbenzene	ug/L	50	54.7	109	80-127	
Iodomethane	ug/L	100	117	117	65-172	
m&p-Xylene	ug/L	100	109	109	82-127	
Methylene Chloride	ug/L	50	48.0	96	67-133	
o-Xylene	ug/L	50	53.9	108	83-124	
Styrene	ug/L	50	50.7	101	80-130	
Tetrachloroethene	ug/L	50	55.9	112	78-128	
Toluene	ug/L	50	54.4	109	76-126	
trans-1,2-Dichloroethene	ug/L	50	58.6	117	78-134	
trans-1,3-Dichloropropene	ug/L	50	49.3	99	75-125	
trans-1,4-Dichloro-2-butene	ug/L	50	52.4	105	51-140	
Trichloroethene	ug/L	50	55.1	110	79-127	
Trichlorofluoromethane	ug/L	50	53.2	106	76-148	
Vinyl acetate	ug/L	100	111	111	50-150	
Vinyl chloride	ug/L	50	58.0	116	67-143	
Xylene (Total)	ug/L	150	162	108	83-125	
1,2-Dichloroethane-d4 (S)	%			97	79-120	
4-Bromofluorobenzene (S)	%			100	87-109	
Dibromofluoromethane (S)	%			95	85-115	
Toluene-d8 (S)	%			100	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 27955 27956

Parameter	Units	925615005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	72.1	74.2	144	148	60-150	3	30	
Benzene	ug/L	ND	50	50	58.7	61.8	117	124	74-136	5	30	
Chlorobenzene	ug/L	ND	50	50	59.0	63.4	118	127	79-135	7	30	
Toluene	ug/L	ND	50	50	58.1	60.9	116	122	73-131	5	30	
Trichloroethene	ug/L	ND	50	50	58.8	61.1	118	122	73-131	4	30	
1,2-Dichloroethane-d4 (S)	%						101	101	79-120			
4-Bromofluorobenzene (S)	%						99	100	87-109			
Dibromofluoromethane (S)	%						105	103	85-115			
Toluene-d8 (S)	%						100	100	70-120			

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QUALITY CONTROL DATA

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

QC Batch: MPRP/1313 | Analysis Method: EPA 6010 GW North Carolina
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 925531001, 925531002, 925531003, 925531004, 925531005, 925531006, 925531007, 925531008, 925531009, 925531011, 925531012

METHOD BLANK: 28793
Associated Lab Samples: 925531001, 925531002, 925531003, 925531004, 925531005, 925531006, 925531007, 925531008, 925531009, 925531011, 925531012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Antimony	ug/L	ND	5.0	
Arsenic	ug/L	ND	5.0	
Barium	ug/L	ND	5.0	
Beryllium	ug/L	ND	1.0	
Cadmium	ug/L	ND	1.0	
Chromium	ug/L	ND	5.0	
Cobalt	ug/L	ND	5.0	
Copper	ug/L	ND	5.0	
Lead	ug/L	ND	5.0	
Nickel	ug/L	ND	5.0	
Selenium	ug/L	ND	10.0	
Silver	ug/L	ND	5.0	
Thallium	ug/L	ND	5.5	
Vanadium	ug/L	0.21J	5.0	
Zinc	ug/L	2.6J	10.0	

LABORATORY CONTROL SAMPLE: 28794

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	498	100	80-120	
Arsenic	ug/L	500	500	100	80-120	
Barium	ug/L	500	494	99	80-120	
Beryllium	ug/L	500	514	103	80-120	
Cadmium	ug/L	500	506	101	80-120	
Chromium	ug/L	500	506	101	80-120	
Cobalt	ug/L	500	503	101	80-120	
Copper	ug/L	500	495	99	80-120	
Lead	ug/L	500	506	101	80-120	
Nickel	ug/L	500	507	101	80-120	
Selenium	ug/L	500	499	100	80-120	
Silver	ug/L	250	253	101	80-120	
Thallium	ug/L	500	510	102	80-120	
Vanadium	ug/L	500	499	100	80-120	
Zinc	ug/L	500	497	99	80-120	

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QUALITY CONTROL DATA

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

MATRIX SPIKE SAMPLE: 28795

Parameter	Units	925425001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	640	128	75-125	M3
Arsenic	ug/L	ND	500	658	131	75-125	M3
Barium	ug/L	101	500	717	123	75-125	
Beryllium	ug/L	ND	500	652	130	75-125	M3
Cadmium	ug/L	9.4	500	649	128	75-125	M3
Chromium	ug/L	ND	500	674	135	75-125	M3
Cobalt	ug/L	72.9	500	721	130	75-125	M3
Copper	ug/L	15.0	500	651	127	75-125	M3
Lead	ug/L	ND	500	633	127	75-125	M3
Nickel	ug/L	8.9	500	662	131	75-125	M3
Selenium	ug/L	ND	500	649	129	75-125	M3
Silver	ug/L	ND	250	275	110	75-125	
Thallium	ug/L	3.2J	500	593	118	75-125	
Vanadium	ug/L	0.37J	500	650	130	75-125	M3
Zinc	ug/L	37.1	500	675	128	75-125	M3

SAMPLE DUPLICATE: 28796

Parameter	Units	925425002 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND	0		
Arsenic	ug/L	ND	ND	71		
Barium	ug/L	75.7	75.5	.3		
Beryllium	ug/L	ND	ND	0		
Cadmium	ug/L	ND	ND	49		
Chromium	ug/L	0.42J	0.49J	15		
Cobalt	ug/L	151	151	0		
Copper	ug/L	ND	ND	0		
Lead	ug/L	ND	ND	200		
Nickel	ug/L	12.6	12.9	2		
Selenium	ug/L	5.5J	3.9J	34		
Silver	ug/L	ND	ND	0		
Thallium	ug/L	3.1J	ND	34		
Vanadium	ug/L	ND	ND	0		
Zinc	ug/L	22.7	22.6	.4		

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QUALITY CONTROL DATA

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

QC Batch: WETA/1389
QC Batch Method: ASTM D516-90,02
Analysis Method: ASTM D516-90,02
Analysis Description: ASTM D516-9002 Sulfate Water
Associated Lab Samples: 925531012

METHOD BLANK: 28832
Associated Lab Samples: 925531012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Sulfate	mg/L	ND	5.0	

LABORATORY CONTROL SAMPLE: 28833

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	21.0	105	90-110	

MATRIX SPIKE SAMPLE: 28834

Parameter	Units	925605001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	27.6	20	44.8	86	75-125	

SAMPLE DUPLICATE: 28835

Parameter	Units	925664007 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	mg/L	ND	ND	27	20	

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Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

QC Batch: WETA/1407
QC Batch Method: SM 5220D
Analysis Method: SM 5220D
Analysis Description: 5220D COD
Associated Lab Samples: 925531012

METHOD BLANK: 29885
Associated Lab Samples: 925531012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chemical Oxygen Demand	mg/L	ND	25.0	

LABORATORY CONTROL SAMPLE: 29886

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	750	770	103	90-110	

MATRIX SPIKE SAMPLE: 29887

Parameter	Units	925346001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	1250	750	1940	92	75-125	

SAMPLE DUPLICATE: 29888

Parameter	Units	925353001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	340	324	5	20	

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(704)875-9092

QUALITY CONTROL DATA

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

QC Batch: MERP/1116 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 925531001, 925531002, 925531003, 925531004, 925531005, 925531006, 925531007, 925531008, 925531009, 925531011, 925531012

METHOD BLANK: 30678
Associated Lab Samples: 925531001, 925531002, 925531003, 925531004, 925531005, 925531006, 925531007, 925531008, 925531009, 925531011, 925531012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	ug/L	ND	0.20	

LABORATORY CONTROL SAMPLE: 30679

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.6	104	80-120	

MATRIX SPIKE SAMPLE: 30680

Parameter	Units	925531001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	2.5	2.6	101	75-125	

SAMPLE DUPLICATE: 30681

Parameter	Units	925531002 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	ug/L	ND	ND	38	25	

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: Madison Co.OperatingLF 2006.12
Pace Project No.: 925531

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery was outside laboratory control limits.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.

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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: 1 of 1

1139603

Section A Required Client Information:

Company: Altamont Environmental
Address: 50 College St.
Asheville NC 28801
Email To: JHazinski@altamontenvironmental.com
Phone: 828-281-3350 Fax: 828-281-3351
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: Stu Ryman
Copy To: ~~Tom~~
Purchase Order No.:
Project Name: Madison Co. Landfill
Project Number: 2006.12

Section C Invoice Information:

Attention: Judith Robertson
Company Name: ~~Shaw~~ Altamont
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY: NPDES [X] GROUND WATER [ ] DRINKING WATER [ ] UST [ ] RCRA [ ] OTHER ____

Site Location STATE: NC

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): App I Metals (w/ Hg) Filtered; App I VOCs Bottle Low Level

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED 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	App I Metals (w/ Hg) Filtered	App I VOCs Bottle Low Level	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 925531
1	MW-01	WT	G			10/10/07	1436	15	4			X	X					1	3		925531001
2	MW-02	WT	G			10/10/07	1617	16	4			X	X					1	3		925531002
3	MW-03	WT	G			10/10/07	1230	15	4			X	X					1	3		925531003
4	MW-04	WT	G			10/10/07	1211	16	4			X	X					1	3		925531004
5	MW-05	WT	G			10/10/07	1102	15	4			X	X					1	3		925531005
6	MW-7R	WT	G			10/10/07	1543	15	4			X	X					1	3		925531006
7	MW-08	WT	G			10/10/07	1504	14.5	4			X	X					1	3		925531007
8	MW-09	WT	G			10/10/07	1350	18	4			X	X					1	3		925531008
9	SW-02R	WT	G			10/10/07	1443	17	4			X	X					1	3		925531009
10	TRIP BLANK LAB →												X						2		925531010
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
J Flag + MDL	Jon Hazinski	10-11-07	9:18	Lori Patton	10/11/07	0918	2.7	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Jon Hazinski
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10-11-07

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

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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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: 1 of 1

1139604

Section A Required Client Information:

Company: Altamont Environmental
Address: 50 College St
Asheville NC 28801
Email To: jhazinski@altamontenvironmental.com
Phone: 281-3350 Fax: 281-3351
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: Stu Ryman
Copy To:
Purchase Order No.:
Project Name: Madison County Landfill
Project Number: 2006.12

Section C Invoice Information:

Attention: Judith Robertson
Company Name: Altamont
Address: Same
Pace Quote Reference:
Pace Project Manager: Lori Patton
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: NC

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): Appendix I metals (soil/food)	Appendix I VOC 8260 list (soil/food)	RCRA Metals (soil/food)	BOD	COD	Phosphate	Nitrate, Sulfate	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 925531
1	SW-01	WT	G			10-11	10:50	12	4			1	3					X	X							925531081 1
2	LP-1	WT	G			10-11	11:40	17	7	2	1	1	3					X	X		X	X	X	X		925531012
3	MW-01-OLD	WT	G			10-11	13:12	15	4			1	3						X	X						
4	MW-02-OLD	WT	G			10-11	14:02	13	4			1	3						X	X						
5	BG-SPRING-OLD	WT	G			10-11	14:48	16	4			1	3						X	X						
6	SW-01-OLD	WT	G			10-11	14:13	12	4			1	3						X	X						
7	SW-02-OLD	WT	G			10-11	14:24	13	4			1	3						X	X						
8	DW-01-EDWARDS	WT	G			10-11	9:51	15	4			1	3						X	X						
9	DW-02-EDWARDS	WT	G			10-11	10:10	13	4			1	3						X	X						
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Results w/ J Flags MDL	Jon Hazinski	10-11-07	16:42	[signature]	10/11/07	16:42	3.3	Y	N	Y
RCRA metals (8) arsenic,										
barium, cadmium, chromium, lead										
mercury, selenium, silver										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jon Hazinski

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10-11-07

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

2

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Appendix C
Kruskal-Wallis Statistical Analyses for Detected Metals
Madison County Operating Landfill
Madison County, North Carolina

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	CURRENT RESULT	UNITS	QUALIFIER	MDL	SWSL	2L Standard	GWPS	2L Standard or GWPS exceedance?	Is median well concentration statistically greater than background well?
58-03	MW-01	7440-36-0	13	Antimony	BQL	ug/L	U	2.6	6	NE	1.4		NO
58-03	MW-02	7440-36-0	13	Antimony	BQL	ug/L	U	2.6	6	NE	1.4		NO
58-03	MW-03	7440-36-0	13	Antimony	BQL	ug/L	U	2.6	6	NE	1.4		NO
58-03	MW-04	7440-36-0	13	Antimony	BQL	ug/L	U	2.6	6	NE	1.4		NO
58-03	MW-05	7440-36-0	13	Antimony	**2.6**	ug/L	**J**	2.6	6	NE	1.4	YES	NO
58-03	MW-7R	7440-36-0	13	Antimony	BQL	ug/L	U	2.6	6	NE	1.4		NO
58-03	MW-08	7440-36-0	13	Antimony	BQL	ug/L	U	2.6	6	NE	1.4		NO
58-03	MW-09	7440-36-0	13	Antimony	BQL	ug/L	U	2.6	6	NE	1.4		N/A
58-03	MW-01	7440-38-2	14	Arsenic	4.2	ug/L	J	2.7	10	50	NE	NO	NO
58-03	MW-02	7440-38-2	14	Arsenic	4.0	ug/L	J	2.7	10	50	NE	NO	NO
58-03	MW-03	7440-38-2	14	Arsenic	4.0	ug/L	J	2.7	10	50	NE	NO	NO
58-03	MW-04	7440-38-2	14	Arsenic	BQL	ug/L	U	2.7	10	50	NE		NO
58-03	MW-05	7440-38-2	14	Arsenic	BQL	ug/L	U	2.7	10	50	NE		NO
58-03	MW-7R	7440-38-2	14	Arsenic	**91.6**	ug/L		2.7	10	50	NE	YES	YES
58-03	MW-08	7440-38-2	14	Arsenic	8.1	ug/L	J	2.7	10	50	NE	NO	NO
58-03	MW-09	7440-38-2	14	Arsenic	3.0	ug/L	J	2.7	10	50	NE	NO	N/A
58-03	MW-01	7440-39-3	15	Barium	397	ug/L		0.20	100	2000	NE	NO	YES
58-03	MW-02	7440-39-3	15	Barium	269	ug/L		0.20	100	2000	NE	NO	YES
58-03	MW-03	7440-39-3	15	Barium	274	ug/L		0.20	100	2000	NE	NO	YES
58-03	MW-04	7440-39-3	15	Barium	154	ug/L		0.20	100	2000	NE	NO	NO
58-03	MW-05	7440-39-3	15	Barium	807	ug/L		0.20	100	2000	NE	NO	YES
58-03	MW-7R	7440-39-3	15	Barium	**2320**	ug/L		0.20	100	2000	NE	YES	YES
58-03	MW-08	7440-39-3	15	Barium	693	ug/L		0.20	100	2000	NE	YES	YES
58-03	MW-09	7440-39-3	15	Barium	**1010**	ug/L		0.20	100	2000	NE	NO	N/A
58-03	MW-01	7440-41-7	23	Beryllium	BQL	ug/L	U	0.10	1	NE	4		NO
58-03	MW-02	7440-41-7	23	Beryllium	BQL	ug/L	U	0.10	1	NE	4		NO
58-03	MW-03	7440-41-7	23	Beryllium	BQL	ug/L	U	0.10	1	NE	4		NO
58-03	MW-04	7440-41-7	23	Beryllium	BQL	ug/L	U	0.10	1	NE	4		NO
58-03	MW-05	7440-41-7	23	Beryllium	BQL	ug/L	U	0.10	1	NE	4		NO
58-03	MW-7R	7440-41-7	23	Beryllium	2.6	ug/L		0.10	1	NE	4	NO	YES
58-03	MW-08	7440-41-7	23	Beryllium	BQL	ug/L	U	0.10	1	NE	4		NO
58-03	MW-09	7440-41-7	23	Beryllium	BQL	ug/L	U	0.10	1	NE	4		N/A
58-03	MW-01	7440-43-9	34	Cadmium	BQL	ug/L	U	0.50	1	1.75	NE		NO
58-03	MW-02	7440-43-9	34	Cadmium	BQL	ug/L	U	0.50	1	1.75	NE		NO
58-03	MW-03	7440-43-9	34	Cadmium	BQL	ug/L	U	0.50	1	1.75	NE		NO
58-03	MW-04	7440-43-9	34	Cadmium	BQL	ug/L	U	0.50	1	1.75	NE		NO
58-03	MW-05	7440-43-9	34	Cadmium	BQL	ug/L	U	0.50	1	1.75	NE		NO
58-03	MW-7R	7440-43-9	34	Cadmium	0.7	ug/L	J	0.50	1	1.75	NE	NO	NO
58-03	MW-08	7440-43-9	34	Cadmium	BQL	ug/L	U	0.50	1	1.75	NE		NO
58-03	MW-09	7440-43-9	34	Cadmium	BQL	ug/L	U	0.50	1	1.75	NE		N/A

Appendix C
Kruskal-Wallis Statistical Analyses for Detected Metals
Madison County Operating Landfill
Madison County, North Carolina

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	CURRENT RESULT	UNITS	QUALIFIER	MDL	SWSL	2L Standard	GWPS	2L Standard or GWPS exceedance?	Is median well concentration statistically greater than background well?
58-03	MW-01	7440-47-3	51	Chromium	39.0	ug/L		0.40	10	50	NE	NO	NO
58-03	MW-02	7440-47-3	51	Chromium	6.2	ug/L	J	0.40	10	50	NE	NO	NO
58-03	MW-03	7440-47-3	51	Chromium	9.8	ug/L	J	0.40	10	50	NE	NO	NO
58-03	MW-04	7440-47-3	51	Chromium	6.5	ug/L	J	0.40	10	50	NE	NO	NO
58-03	MW-05	7440-47-3	51	Chromium	**121**	ug/L		0.40	10	50	NE	YES	YES
58-03	MW-7R	7440-47-3	51	Chromium	**231**	ug/L		0.40	10	50	NE	NO	YES
58-03	MW-08	7440-47-3	51	Chromium	27.2	ug/L		0.40	10	50	NE	NO	NO
58-03	MW-09	7440-47-3	51	Chromium	BQL	ug/L	U	0.40	10	50	NE	NO	N/A
58-03	MW-01	7440-48-4	53	Cobalt	33.2	ug/L		0.60	10	NE	70	NO	NO
58-03	MW-02	7440-48-4	53	Cobalt	53.1	ug/L		0.60	10	NE	70	NO	YES
58-03	MW-03	7440-48-4	53	Cobalt	**105**	ug/L		0.60	10	NE	70	YES	YES
58-03	MW-04	7440-48-4	53	Cobalt	1.3	ug/L	J	0.60	10	NE	70	NO	NO
58-03	MW-05	7440-48-4	53	Cobalt	66.7	ug/L		0.60	10	NE	70	NO	YES
58-03	MW-7R	7440-48-4	53	Cobalt	**81.5**	ug/L		0.60	10	NE	70	YES	YES
58-03	MW-08	7440-48-4	53	Cobalt	**130**	ug/L		0.60	10	NE	70	YES	YES
58-03	MW-09	7440-48-4	53	Cobalt	53.1	ug/L		0.60	10	NE	70	NO	N/A
58-03	MW-01	7440-50-8	54	Copper	27.3	ug/L		0.30	10	1000	NE	NO	NO
58-03	MW-02	7440-50-8	54	Copper	7.2	ug/L	J	0.30	10	1000	NE	NO	NO
58-03	MW-03	7440-50-8	54	Copper	3.2	ug/L	J	0.30	10	1000	NE	NO	NO
58-03	MW-04	7440-50-8	54	Copper	1.9	ug/L	J	0.30	10	1000	NE	NO	NO
58-03	MW-05	7440-50-8	54	Copper	74.1	ug/L		0.30	10	1000	NE	NO	YES
58-03	MW-7R	7440-50-8	54	Copper	71.6	ug/L		0.30	10	1000	NE	NO	YES
58-03	MW-08	7440-50-8	54	Copper	111	ug/L		0.30	10	1000	NE	NO	YES
58-03	MW-09	7440-50-8	54	Copper	40.0	ug/L		0.30	10	1000	NE	NO	N/A
58-03	MW-01	7439-92-1	131	Lead	7.2	ug/L	J	4.0	10	15	NE	NO	NO
58-03	MW-02	7439-92-1	131	Lead	BQL	ug/L	U	4.0	10	15	NE		NO
58-03	MW-03	7439-92-1	131	Lead	BQL	ug/L	U	4.0	10	15	NE		NO
58-03	MW-04	7439-92-1	131	Lead	BQL	ug/L	U	4.0	10	15	NE		NO
58-03	MW-05	7439-92-1	131	Lead	BQL	ug/L	U	4.0	10	15	NE		NO
58-03	MW-7R	7439-92-1	131	Lead	**42.9**	ug/L		4.0	10	15	NE	YES	NO
58-03	MW-08	7439-92-1	131	Lead	BQL	ug/L	U	4.0	10	15	NE		NO
58-03	MW-09	7439-92-1	131	Lead	BQL	ug/L	U	4.0	10	15	NE		N/A
58-03	MW-01	7439-97-6	132	Mercury	BQL	ug/L	U	0.090	0.2	1.05	NE		NO
58-03	MW-02	7439-97-6	132	Mercury	BQL	ug/L	U	0.090	0.2	1.05	NE		NO
58-03	MW-03	7439-97-6	132	Mercury	0.20	ug/L		0.090	0.2	1.05	NE	NO	NO
58-03	MW-04	7439-97-6	132	Mercury	BQL	ug/L	U	0.090	0.2	1.05	NE		NO
58-03	MW-05	7439-97-6	132	Mercury	BQL	ug/L	U	0.090	0.2	1.05	NE		NO
58-03	MW-7R	7439-97-6	132	Mercury	0.13	ug/L	J	0.090	0.2	1.05	NE	NO	NO
58-03	MW-08	7439-97-6	132	Mercury	BQL	ug/L	U	0.090	0.2	1.05	NE		NO
58-03	MW-09	7439-97-6	132	Mercury	BQL	ug/L	U	0.090	0.2	1.05	NE		N/A
58-03	MW-01	7440-02-0	152	Nickel	25.2	ug/L	J	1.7	50	100	NE	NO	NO
58-03	MW-02	7440-02-0	152	Nickel	5.6	ug/L	J	1.7	50	100	NE	NO	NO
58-03	MW-03	7440-02-0	152	Nickel	10.4	ug/L	J	1.7	50	100	NE	NO	NO
58-03	MW-04	7440-02-0	152	Nickel	4.8	ug/L	J	1.7	50	100	NE	NO	NO
58-03	MW-05	7440-02-0	152	Nickel	91.1	ug/L		1.7	50	100	NE	NO	YES
58-03	MW-7R	7440-02-0	152	Nickel	79.2	ug/L		1.7	50	100	NE	NO	YES
58-03	MW-08	7440-02-0	152	Nickel	**119**	ug/L		1.7	50	100	NE	YES	YES
58-03	MW-09	7440-02-0	152	Nickel	23.2	ug/L	J	1.7	50	100	NE	NO	N/A

Appendix C
Kruskal-Wallis Statistical Analyses for Detected Metals
Madison County Operating Landfill
Madison County, North Carolina

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	CURRENT RESULT	UNITS	QUALIFIER	MDL	SWSL	2L Standard	GWPS	2L Standard or GWPS exceedance?	Is median well concentration statistically greater than background well?
58-03	MW-01	7782-49-2	183	Selenium	14.0	ug/L		3.8	10	50	NE	NO	NO
58-03	MW-02	7782-49-2	183	Selenium	8.7	ug/L	J	3.8	10	50	NE	NO	NO
58-03	MW-03	7782-49-2	183	Selenium	23.0	ug/L		3.8	10	50	NE	NO	NO
58-03	MW-04	7782-49-2	183	Selenium	BQL	ug/L	U	3.8	10	50	NE		NO
58-03	MW-05	7782-49-2	183	Selenium	17.4	ug/L		3.8	10	50	NE	NO	NO
58-03	MW-7R	7782-49-2	183	Selenium	BQL	ug/L	U	3.8	10	50	NE		NO
58-03	MW-08	7782-49-2	183	Selenium	23.3	ug/L		3.8	10	50	NE	NO	NO
58-03	MW-09	7782-49-2	183	Selenium	20.5	ug/L		3.8	10	50	NE	NO	N/A
58-03	MW-01	7440-28-0	194	Thallium	**9.0**	ug/L		3.0	5.5	NE	0.28	YES	N/A
58-03	MW-02	7440-28-0	194	Thallium	**3.1**	ug/L	**J**	3.0	5.5	NE	0.28	YES	N/A
58-03	MW-03	7440-28-0	194	Thallium	**5.2**	ug/L	**J**	3.0	5.5	NE	0.28	YES	N/A
58-03	MW-04	7440-28-0	194	Thallium	BQL	ug/L	U	3.0	5.5	NE	0.28		N/A
58-03	MW-05	7440-28-0	194	Thallium	**18.1**	ug/L		3.0	5.5	NE	0.28	YES	N/A
58-03	MW-7R	7440-28-0	194	Thallium	**9.2**	ug/L		3.0	5.5	NE	0.28	YES	N/A
58-03	MW-08	7440-28-0	194	Thallium	**27.1**	ug/L		3.0	5.5	NE	0.28	YES	N/A
58-03	MW-09	7440-28-0	194	Thallium	**25.2**	ug/L		3.0	5.5	NE	0.28	YES	N/A
58-03	MW-01	7440-62-2	209	Vanadium	**72.3**	ug/L		0.20	25	NE	3.5	YES	NO
58-03	MW-02	7440-62-2	209	Vanadium	**19.1**	ug/L	**J**	0.20	25	NE	3.5	YES	NO
58-03	MW-03	7440-62-2	209	Vanadium	**15.5**	ug/L	**J**	0.20	25	NE	3.5	YES	NO
58-03	MW-04	7440-62-2	209	Vanadium	**12.9**	ug/L	**J**	0.20	25	NE	3.5	YES	NO
58-03	MW-05	7440-62-2	209	Vanadium	**108**	ug/L		0.20	25	NE	3.5	YES	YES
58-03	MW-7R	7440-62-2	209	Vanadium	**351**	ug/L		0.20	25	NE	3.5	YES	YES
58-03	MW-08	7440-62-2	209	Vanadium	**303**	ug/L		0.20	25	NE	3.5	YES	YES
58-03	MW-09	7440-62-2	209	Vanadium	**142**	ug/L		0.20	25	NE	3.5	YES	N/A
58-03	MW-01	7440-66-6	213	Zinc	100	ug/L		0.40	10	1050	NE	NO	NO
58-03	MW-02	7440-66-6	213	Zinc	38.5	ug/L		0.40	10	1050	NE	NO	NO
58-03	MW-03	7440-66-6	213	Zinc	42.3	ug/L		0.40	10	1050	NE	NO	YES
58-03	MW-04	7440-66-6	213	Zinc	18.8	ug/L		0.40	10	1050	NE	NO	NO
58-03	MW-05	7440-66-6	213	Zinc	132	ug/L		0.40	10	1050	NE	NO	YES
58-03	MW-7R	7440-66-6	213	Zinc	583	ug/L		0.40	10	1050	NE	NO	YES
58-03	MW-08	7440-66-6	213	Zinc	253	ug/L		0.40	10	1050	NE	NO	YES
58-03	MW-09	7440-66-6	213	Zinc	174	ug/L		0.40	10	1050	NE	NO	N/A

Notes:
1. CAS Number is a unique number assigned by the Chemical Abstracts Service (CAS) to all identified parameters.
2. SWS ID is the Solid Waste Section Identification Number.
3. Result is analytical data reported by the laboratory in units of micrograms per liter (ug/L). BQL indicates that the analytical result was Below Quantitation Limits.
4. Qualifier is a laboratory data qualifier or "flag". "U" is used for parameters not detected at concentrations above the Method Detection Limit (MDL). "J" is used for parameters detected at estimated concentrations above the Method Detection Limit (MDL) but below the Solid Waste Section Limit (SWSL).
5. Method is the analytical method used to analyze the constituents.
6. Method Detection Limit (MDL) is the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.
7. SWSL is the Solid Waste Section Limit. This limit is the lowest amount of analyte in a sample that can be quantitatively determined with suitable precision and accuracy.
8. Dilution Factor is reported as single number indicating dilution performed prior to analysis. A value of 1 indicates that the sample was not diluted prior to analysis.
9. Collect Date is the date on which the sample was collected in the field.
10. Extraction Date is the date on which the sample was prepared/extracted for analysis.
11. Analysis Date is the date on which the sample was analyzed by the lab.
12. **Bold** numbers indicate a result equal to or in exceedance of the 2L Standard, 2B Standard, or Groundwater Protection Standard (GWPS). If no 2L Standard exists, then values are compared to the GWPS.
13. 2B Standard from "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2B - Surface Water and Wetland Standards," NC DENR NC and EPA standards summary table (last amended on August 2007).

Appendix C
Kruskal-Wallis Statistical Analyses for Detected Metals
Madison County Operating Landfill
Madison County, North Carolina

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	CURRENT RESULT	UNITS	QUALIFIER	MDL	SWSL	2L Standard	GWPS	2L Standard or GWPS exceedance?	Is median well concentration statistically greater than background well?

14. 2L Standard from "North Carolina Administrative Code, Title 15A: Department of Environment and Natural Resources, Subchapter 2L - Groundwater Classifications and Standards," NC DENR, (last amended on May 1, 2007).
15 Groundwater Protection Standard is pursuant to "15A NCAC 13B .1634," NC DENR. Current standards were obtained from http://www.wastenotnc.org/sw/swenvmonitoringlist.asp (last amended on October 23, 2007).
16. NE means Not Established.
17. N/A means Not Analyzed due to historical lack of detections.