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).
- 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):

Municipal Engineering Services Company, PA

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

Name: Johnathan Pfohl Phone: (919) 772-5393

E-mail: jpfohl@mesco.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Cherokee County Subtitle D Lined MSWLF	10160 US 19 Marble, NC 28905	20-02	.1600	February 23-24, 2010

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.

Jonathan Pfohl — Environmental Specialist — (919) 772-5393

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

Affix NC Licensed/ Professional Geologist Seal

Signature — Date

PO Box 97, Garner, NC 27529

Facility Representative Address

C-0281

NC PE Firm License Number (if applicable effective May 1, 2009)

Revised 6/2009

Semi-Annual Water Quality Monitoring and Statistical Analysis Report

Prepared for

Cherokee County Subtitle D Lined MSWLF
Marble, North Carolina

February 2010

Permit Number: 20-02
MESCO Project Number: G10008.0

Completed on June 18, 2010

Municipal Services Garner, NC
Engineering Company, P.A. Boone, NC
Municipal Engineering Services Company, P.A.
Garner, Boone and Morehead City, North Carolina

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OPERATION/CONSTRUCTION MANAGERS

Municipal Services

CIVIL/SANITARY ENGINEERS

Engineering Company, P.A.

June 18, 2010

Mr. Ervin Lane
Solid Waste Section
Division of Waste Management
North Carolina Department of Environment and Natural Resources
401 Oberlin Road, Suite 150
Raleigh, NC 27605

Re: Water Quality Sampling Report and Statistical Analysis
Cherokee County Subtitle D Lined MSWLF
Permit No. 20-02
MESCO Project No. G10007.0

Dear Mr. Lane:

Introduction

The Cherokee County Subtitle D Lined Municipal Solid Waste Landfill (MSWLF) located in Marble NC (Permit #20-02) is required to submit semi-annual compliance reports as a condition of the water quality monitoring program. The lined MSWLF is comprised of two Phases (1 & 2) which are contiguous; therefore they are combined and treated as a single unit for overall continuity in this report. Municipal Engineering Services Company, P.A. (MESCO) of Garner NC performed this sampling event on February 23-24, 2010 in accordance with the semi-annual monitoring schedule prescribed by the NC Solid Waste Section (SWS) rules/regulations as promulgated in 15A NCAC 13B.1600.
As specified within 15A NCAC 13B.1632(j) and the SWS Environmental Monitoring Report Form this report contains sampling procedures, field and laboratory results, statistical analysis, groundwater and surface water characterization, and findings. A list of detections compared to the respective Standards, field data results, a single-day potentiometric map, groundwater flow directions and flow rates table, field observations of the monitoring network table, quality assurance/quality control data, statistical analysis, and full laboratory analytical data results with chains of custody (C-O-C) are attached.

Sampling Procedure

This event included collection and analysis of water samples from 13 monitoring locations including eight downgradient groundwater monitoring wells (MW-2 through MW-6S, MW-6D, MW-7 and MW-8), one downgradient piezometer (P-18), one background well (MW-1) and three surface water monitoring points (SW-1, SW-2, and SW-4). A sample was also collected from the lined leachate lagoon (LEACHATE). Quality control measures, which included submittal and analysis of equipment blank samples (EB), field blank samples (FB), and trip blank samples (TB) were also implemented during this event. All monitoring locations are depicted on the enclosed single-day potentiometric map Plate 1.

All sampling was performed utilizing methodology outlined in the NCDENR SWS guidance document S*olid Waste Section Guidelines for Groundwater, Soil, and Surface Water Sampling* revised April 2008. The function and integrity of all monitoring locations were visually evaluated, preventive maintenance performed, and documentation is provided in the enclosed Table 3. The depth to water in each well was electronically gaged prior to purging to quantify the static water level elevation. Low flow pumping methodology or baling was utilized to adequately purge the wells to a minimum of three times the volume of standing water in the well or to dryness. During purging, field parameters (dissolved oxygen, oxidation-reduction potential, total dissolved solids, and visual turbidity) were recorded in addition to those that are required (pH, specific conductance, temperature). The samples were then

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immediately placed into laboratory-prepared pre-preserved containers via a new disposable polyethylene bailer. Samples were properly collected/separated based upon likelihood of potential cross-contamination, kept upon ice, and transported to a NC-certified laboratory under proper chain-of-custody (C-O-C) protocol within the specified hold times for each analysis.

Analytical Laboratory & Field Results

Pace Analytical Laboratories (PACE) of Huntersville and Asheville, NC and their subcontract laboratory Analytical Environmental Services of Atlanta, GA performed the laboratory analysis for the 40 CFR 258 Appendix I and Appendix II list of constituents. Downgradient wells MW-6S, MW-6D, MW-7, and MW-8 were analyzed for the complete Appendix II list of parameters. The Appendix II list of constituents entailed an expanded list of VOCs (EPA 8260), expanded list of total metals (EPA 6010), mercury (EPA 7470), semi-volatile organic compounds (EPA 8270D), herbicides (SW 8151A), pesticides (SW8081B), PCBs (EPA 8082), total cyanide (SM4500 CN-E), sulfide (SM4500-S2D) and chloride (SM4500-CL-E). Samples from MW-1, background well, were analyzed for the Appendix II list of VOCs and metals, chloride, sulfide, and cyanide. A leachate sample taken from the invert to the leachate lagoon (LEACHATE) which serves both Phases 1 & 2 was also analyzed for the complete required leachate specific list including nitrate, phosphorus, chemical oxygen demand, biological oxygen demand, sulfate, cyanide, Appendix I VOCs, and Appendix II metals. Quality control blanks were analyzed for Appendix I VOCs and Appendix II metals. All of the other samples were analyzed for the Appendix I list of VOCs via EPA 8260B and total metals utilizing method EPA 6010. The full laboratory data report and C-O-Cs are presented in Appendix B.

All water samples were analyzed down to the laboratory-established Method Detection Limits (MDL) with reference to the values current as of the sampling event. Enclosed Table 1 summarizes all detected constituents detected within groundwater and surface water samples above the current Solid Waste Section detection limit (SWSL), Groundwater Protection Standards (GWP), North Carolina Groundwater Standards (2L) or the applicable North Carolina Surface Water Standards (2B) for a trout water body.

A summary of the field parameter data is presented in Table 4 and the field sampling data sheet is enclosed in Appendix B. The field parameter data appears to be generally consistent relative to each other and congruent with data historically reported.

Quality Control Samples

The chlorinated hydrocarbons DCM and 1,2-DCA were detected in concentrations above the SWSL within the quality control samples EB, FB, and TB. Low non-quantifiable concentrations of mercury were detected in all groundwater samples and also within their associated laboratory method blanks which indicates possible/probable laboratory induced artifact contamination. Although these blank qualified detections were identified it appears that the validity of the latest data set is not effected by false positives or high bias attributed to the artifact contamination.

Groundwater Samples

The only total metal constituents detected in exceedance of the 2L Standard were chromium and lead within the sample taken from the upgradient background well MW-1. None of the other inorganic target analytes were detected above their respective 2L Standard or GWP in other groundwater samples. Benzene and the chlorinated aliphatic hydrocarbon (CAH) VCM and a non-quantifiable ("j" qualifier) concentration of PCE were detected in exceedance of the 2L Standard in MW-7. Samples taken from the nested pair MW-6S and MW-6D contained concentrations of benzene and 1,4-DCB above the Standard. Quantifiable concentrations of VOCs were absent from all other groundwater monitoring locations. No Appendix II exclusive constituents, constituents not also included in the Appendix I list, were detected in quantifiable concentrations (>SWSL) during this event with the exception of the non-reactive solute ion chloride which was found in MW-6S and MW-6D below the 2L Standard. A summary of all constituents detected in concentrations above the SWSL, GWP, or 2L Standard are presented in Table 1.

Surfacewater Samples

No constituents were detected in concentrations above the SWSL or in exceedance of their respective 2B Standards from any of the surface water samples taken from the Valley River discharge feature which is located between the lined Subtitle D MSWLF and the unlined closed MSWLF.

Leachate Samples

As presented in attached Table 1, the leachate sample (LEACHATE) contained quantifiable concentrations of only five different VOCs and one metal. The numbers and concentrations of detections are consistent with historical results and they remain lower than those typically found in wastewater from a MSWLF.

Statistical Analysis

The statistical analysis was performed upon all constituents detected in quantifiable concentrations (above SWSL) from the monitoring wells. The statistical comparison between baseline and current groundwater analytical data is consistent with US EPA guidance documents and meets or exceeds the performance criteria specified in 15A NCAC 13B.1362. The complete set of statistical analysis calculations is not included in this document, but can be submitted upon request. The overview of the statistical analysis methodologies, summary tables with graphs, and supporting worksheets are presented in Appendix A.

There does not appear to be any other statistical outliers or current evidence of seasonality in the latest data set. The numbers and types of metal detections continue to be fairly consistent with historical results. The interwell analysis results indicate that concentrations of barium detected in MW-6S did not exhibit a statistically significant increase (SSI) in concentration over background levels established by the background well MW-1.

Due to the lack of historical VOC detections within the background wells, the detection of any quantifiable VOC within a downgradient well is considered a statistically significant number of detections per Poisson Prediction Interval analysis. Quantifiable Appendix I VOCs were detected in samples collected from MW-6S, MW-6D, and MW-7. All VOCs detected during this event have previously been found at their respective location and in concentrations within their historically identified range. A qualitative evaluation of VOC concentrations over time indicate that none of the VOC concentrations exhibited an increasing trend over time.

Groundwater and Surface Water Characterization

MESCO constructed a single-day potentiometric map of the uppermost aquifer from groundwater elevation data recorded during this monitoring event. Groundwater flow rates and directions were also calculated based upon this data and are included in the attached hydrologic properties table (Table 2). Flow directions were estimated to be southeasterly towards the Valley River with rates ranging from approximately 3 feet/year (MW-7) to 742 feet/year (MW-5), and averaging approximately 158 feet/year. Streams located within the facility boundaries were visually observed to be of moderate volume and flow. The flow directions and gradients are consistent with historical observations, showing no changes that would result in a different interpretation of the groundwater system or hinder the effectiveness of the current monitoring network.

Findings

The metals detected during this sampling event are very likely not attributed to landfill activities as evidenced by metal concentrations detected in higher concentrations within the background well and the results of the subsequent statistical analysis.

Appendix I VOCs continue to be detected in samples collected from MW-6S, MW-6D, and MW-7 located hydraulically between the landfill and Valley River discharge feature. However, the statistical analysis indicates that none of the detected VOCs have exhibited a SSI in concentrations over time. The impacted wells are located within the compliance boundary downgradient of the lined MSWLF. There are no potential groundwater receptors located downgradient between the landfill and the Valley River discharge feature. The discharge feature and the closest residential supply wells are routinely monitored semiannually as part of the monitoring program for the closed unlined MSWLF and both remain unimpacted.

In response to a letter issued by the SWS dated February 3, 2010 a *Groundwater Contamination Assessment Plan* was submitted by MESCO on March 22, 2010. The assessment plan approved by the SWS on March 26, 2010 details the proposed investigative actions to be performed in order to better delineate the horizontal and vertical plume migration extent downgradient of MW-6S, MW-6D, and MW-7. Upon plan implementation an assessment report is planned to be submitted to the SWS.

Closing

The groundwater investigation/delineation efforts downgradient of the apparently impacted wells are expected to commence very soon and a report of the findings will be submitted upon completion. Additionally the Subtitle D lined MSWLF will continue semi-annual monitoring and is tentatively scheduled to be sampled again in August 2010. Please contact us by phone at (919) 772-5393 or by email at jpfohl@mesco.com if you have any questions or comments regarding this report.

Sincerely,

MUNICIPAL ENGINEERING SERVICES CO., P.A.

Jonathan Pfohl
Environmental Specialist

Enclosures
cc: Mr. Robert Allen
Cherokee County

Plates

LEGEND

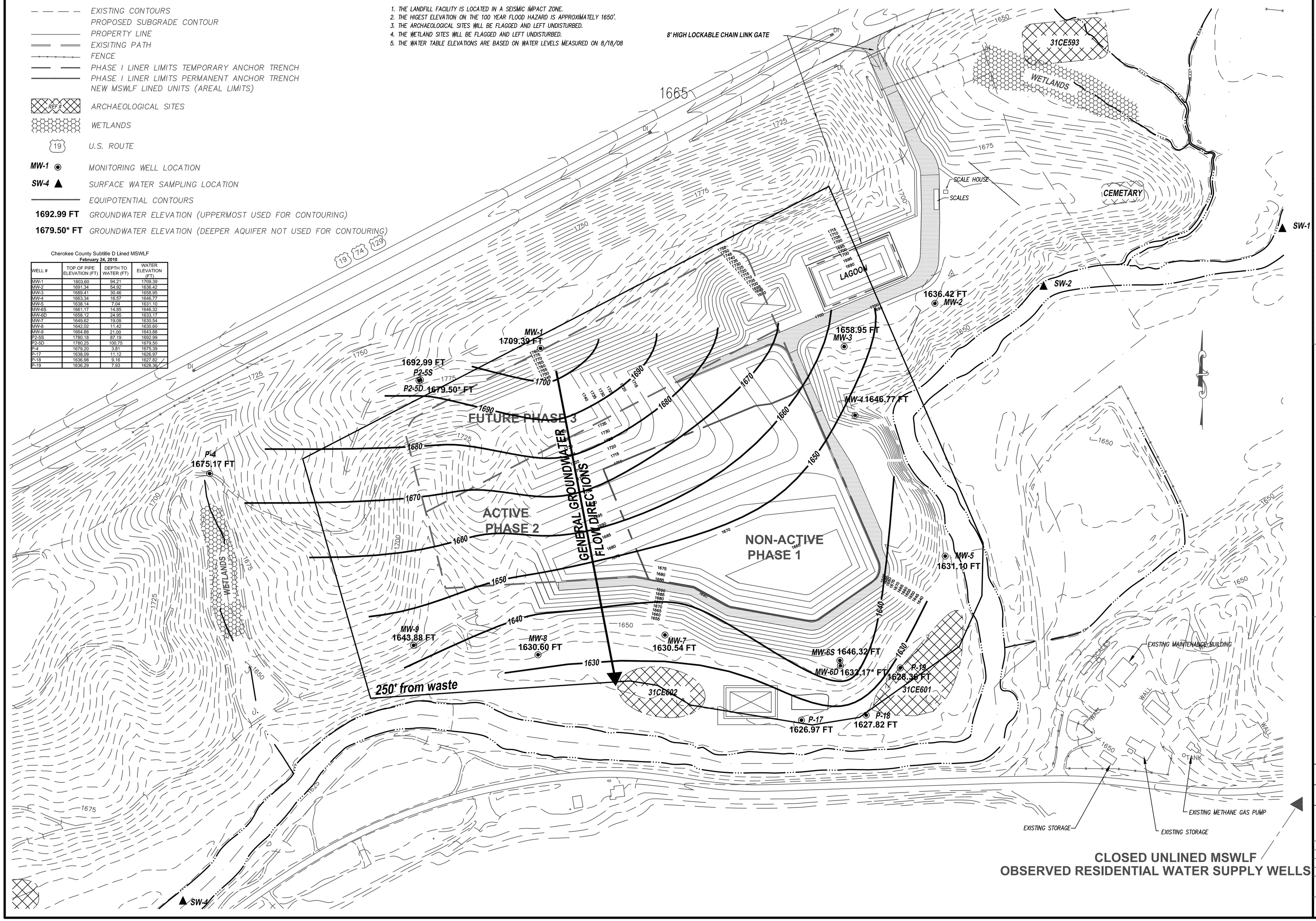
- EXISTING CONTOURS
- PROPOSED SUBGRADE CONTOUR
- PROPERTY LINE
- EXISITING PATH
- FENCE
- PHASE I LINER LIMITS TEMPORARY ANCHOR TRENCH
- PHASE I LINER LIMITS PERMANENT ANCHOR TRENCH
- NEW MSWLF LINED UNITS (AREAL LIMITS)
- REF # — ARCHAEOLOGICAL SITES
- WETLANDS
- 19 — U.S. ROUTE
- MW-1 — MONITORING WELL LOCATION
- SW-4 — SURFACE WATER SAMPLING LOCATION
- EQUIPOTENTIAL CONTOURS
- 1692.99 FT — GROUNDWATER ELEVATION (UPPERMOST USED FOR CONTOURING)
- 1679.50* FT — GROUNDWATER ELEVATION (DEEPER AQUIFER NOT USED FOR CONTOURING)

NOTES

1. THE LANDFILL FACILITY IS LOCATED IN A SEISMIC IMPACT ZONE.
2. THE HIGEST ELEVATION ON THE 100 YEAR FLOOD HAZARD IS APPROXIMATELY 1650'.
3. THE ARCHAEOLOGICAL SITES WILL BE FLAGGED AND LEFT UNDISTURBED.
4. THE WETLAND SITES WILL BE FLAGGED AND LEFT UNDISTURBED.
5. THE WATER TABLE ELEVATIONS ARE BASED ON WATER LEVELS MEASURED ON 8/18/08

Cherokee County Subtitle D Lined MSWLF
February 24, 2010

WELL #	TOP OF PIPE ELEVATION (FT)	DEPTH TO WATER (FT)	WATER ELEVATION (FT)
MW-1	1803.60	94.21	1709.39
MW-2	1691.34	54.92	1636.42
MW-3	1689.41	30.46	1658.95
MW-4	1663.34	16.57	1646.77
MW-5	1638.14	7.04	1631.10
MW-6S	1661.17	14.85	1646.32
MW-6D	1658.12	24.95	1633.17
MW-7	1649.62	19.08	1630.54
MW-8	1642.02	11.42	1630.60
MW-9	1664.88	21.00	1643.88
P2-5S	1780.18	87.19	1692.99
P2-5D	1780.25	100.75	1679.50
P-4	1679.20	3.81	1675.39
P-17	1638.09	11.12	1626.97
P-18	1636.98	9.16	1627.82
P-19	1636.29	7.93	1628.36



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SUBTITLE D LINED LANDFILL
CHEROKEE COUNTY NORTH CAROLINA

DATE	BY	REV.	DESCRIPTION
2/27/98	LCH	1	CORRECTED WELL LOCATIONS ,ADDED M. WELL CHART

SINGLE DAY POTENTIOMETRIC MAP
UPPERMOST AQUIFER 2/24/10

SCALE:	1"=100'
DATE:	5/4/10
DRWN. BY:	M. GERMAN
CHKD. BY:	J. PFOHL
PROJECT NUMBER	G01009.0
DRAWING NO.	PLATE 1
SHEET NO.	1 OF 1

Tables

Table 1
Detection Scan All Appendix I VOCs and Metal Detections above SWSL, GWP, 2L, or 2B
Cherokee County Subtitle D Lined MSWLF

Well ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]	Exceedance	Preliminary Cause
MW-1	Barium	2/24/10	123	ug/L	0.2	100	2000				
MW-1	Beryllium	2/24/10	2.2	ug/L	0.1	1			4		
MW-1	**Chromium**	**2/24/10**	**45.7**	**ug/L**	**0.4**	**10**	**10**			**35.7**	**N & B**
MW-1	Cobalt	2/24/10	69.4	ug/L	0.6	10			70		
MW-1	Copper	2/24/10	47.7	ug/L	0.3	10	1000				
MW-1	**Lead**	**2/24/10**	**17.2**	**ug/L**	**4**	**10**	**15**			**2.2**	**N & B**
MW-1	Nickel	2/24/10	59.7	ug/L	1.7	50	100				
MW-1	Vanadium	2/24/10	33.9	ug/L	0.2	25			3.5	30.4	
MW-1	Zinc	2/24/10	83.8	ug/L	0.4	10	1050				
MW-5	Zinc	2/24/10	22.4	ug/L	0.4	10	1050				
MW-6D	**1,4-Dichlorobenzene**	**2/24/10**	**7.3**	**ug/L**	**0.33**	**1**	**6**			**1.3**	**L &/or LFG**
MW-6D	**Benzene**	**2/24/10**	**2.8**	**ug/L**	**0.25**	**1**	**1**			**1.8**	**L &/or LFG**
MW-6D	cis-1,2-Dichloroethene	2/24/10	14.9	ug/L	0.19	5	70				
MW-6S	**1,4-Dichlorobenzene**	**2/24/10**	**18.7**	**ug/L**	**0.33**	**1**	**6**			**12.7**	**L &/or LFG**
MW-6S	Barium	2/24/10	231	ug/L	0.2	100	2000				
MW-6S	**Benzene**	**2/24/10**	**2.5**	**ug/L**	**0.25**	**1**	**1**			**1.5**	**L &/or LFG**
MW-6S	Chloride	2/24/10	13000	ug/L	5000	5000	250000				
MW-6S	cis-1,2-Dichloroethene	2/24/10	13.3	ug/L	0.19	5	70				
MW-6S	Cobalt	2/24/10	39.8	ug/L	0.6	10			70		
MW-6S	Zinc	2/24/10	39.1	ug/L	0.4	10	1050				
MW-7	**Benzene**	**2/24/10**	**4.5**	**ug/L**	**0.25**	**1**	**1**			**3.5**	**L &/or LFG**
MW-7	Chloride	2/24/10	22900	ug/L	5000	5000	250000				
MW-7	cis-1,2-Dichloroethene	2/24/10	36.5	ug/L	0.19	5	70				
MW-7	Cobalt	2/24/10	52.9	ug/L	0.6	10			70		
MW-7	**Tetrachloroethene**	**2/24/10**	**0.88[j]**	**ug/L**	**0.46**	**1**	**0.7**			**0.18**	**L &/or LFG**
MW-7	**Vinyl chloride**	**2/24/10**	**1.6**	**ug/L**	**0.62**	**1**	**0.03**			**1.57**	**L &/or LFG**
MW-7	Zinc	2/24/10	34.8	ug/L	0.4	10	1050				
LEACHATE	1,4-Dichlorobenzene	2/24/10	3.6	ug/L	0.33	1	6				
LEACHATE	Barium	2/24/10	357	ug/L	0.2	100	2000				
LEACHATE	**Benzene**	**2/24/10**	**5.5**	**ug/L**	**0.25**	**1**	**1**			**4.5**	
LEACHATE	Chlorobenzene	2/24/10	5.7	ug/L	0.23	3	50				
LEACHATE	COD	2/24/10	81000	ug/L	25000	25000					
LEACHATE	Ethylbenzene	2/24/10	6.6	ug/L	0.3	1	550				
LEACHATE	**Vinyl chloride**	**2/24/10**	**1.9**	**ug/L**	**0.62**	**1**	**0.015**			**1.885**	

Well ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]	Exceedance	Preliminary Cause
EB	**1,2-Dichloroethane**	**2/23/10**	**1.3**	**ug/L**	**0.12**	**1**	**0.38**			**0.92**	**A**
EB	**Methylene Chloride**	**2/23/10**	**5.1**	**ug/L**	**0.97**	**2**	**4.6**			**0.5**	**A**
FB	**1,2-Dichloroethane**	**2/23/10**	**1.3**	**ug/L**	**0.12**	**1**	**0.38**			**0.92**	**A**
FB	**Methylene Chloride**	**2/23/10**	**5.1**	**ug/L**	**0.97**	**2**	**4.6**			**0.5**	**A**
TB	**1,2-Dichloroethane**	**2/23/10**	**1.6**	**ug/L**	**0.12**	**1**	**0.38**			**1.22**	**A**
TB	Methylene Chloride	2/23/10	2.2	ug/L	0.97	2	4.6				

[1] Table contains only constituents detected above SWSL, GWP, 2L, or 2B

[2] MDL = Method Detection Limit

[3] SWSL = Solid Waste Section Reporting Limit (Current as of Sampling Event)

[4] 2L = North Carolina 15A NCAC 2L Groundwater Qualtity Standard (Current as of Sampling Event)

[6] 2B = North Carolina 15 NCAC 2B Surface Water Quality Standard for this Specific Stream Classification (Current as of Sampling Event)

[7] GWP = Groundwater Protection Standard (Current as of Sampling Event)

[J] =The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.

A = Artifact Contamination from Laboratory (Detected in EB, FB, and laboratory associated method blanks)

L = Leachate

LFG = Landfill Gas

N = Natural (Erosion of Natural Deposits)

B = Background

O = Statistical Outlier

NE = Not Established

BOLD = Concentration > 2L, or 2B Standard (Current as of Sampling Event)

Table 2
Hydrologic Properties at Monitoring Well Locations
Cherokee County Subtitle D Lined Landfill

Monitoring Well	Hydraulic Conductivity (cm/sec)	Effective Porosity (%)	Hydraulic Gradient	Flow Rate (ft/yr)	Flow Direction	Water Table Depth (ft)	Water Table Elevation (ft)	Screened Interval Lithology
MW-1	3.04E-06	5.00	0.11	7	S28W	94.21	1709.39	Clayey Silt
MW-2	1.97E-04	16.00	0.09	119	S80E	54.92	1636.42	PWR
MW-3	1.18E-04	10.00	0.15	178	S73E	30.46	1658.95	Silt
MW-4	1.71E-04	16.00	0.11	117	S62E	16.57	1646.77	Sandy Silt
MW-5	1.66E-03	15.00	0.06	742	S86E	7.04	1631.10	Silty Sand
MW-6S	4.15E-05	15.00	0.13	37	S07E	14.85	1646.32	Gneiss
MW-7	5.80E-05	16.00	0.01	3	S00W	19.08	1630.54	Sandy Silt
MW-8	1.27E-04	14.00	0.02	18	S08E	11.42	1630.60	PWR
MW-9	2.84E-04	14.00	0.10	203	S23E	21.00	1643.88	Silt

NOTE: Effective Porosity value for MW-5 & MW-6S taken from table in Applied Hydrogeology of Fractured Rocks, Singhal & Gupta (1999)

All other values for effective porosity are derived from the Design Hydrogeologic Studies for the Cherokee County Subtitle D MSWLF

Hydraulic Conductivities were obtained from slug tests performed by Municipal Engineering on each monitoring well and data from the Design Hydrogeologic Study.

Wells screened in deeper aquifer not utilized for flow directions/gradients.

Hydrologic Gradient taken from water levels taken on February 24, 2010.

Flow rate (Q) is defined by the equation:

where $$Q = -\frac{K}{n_e} \cdot \frac{dh}{dl}$$

Min v_x: 3
Mean v_x: 158
Median v_x: 117
Max v_x: 742

K = hydraulic conductivity
ne = effective porosity
dh = head difference
dl = horizontal distance

Table 3
Field Observations of Monitoring Locations
Cherokee County Subtitle D Lined MSWLF
February 23 & 24, 2010

Sample Location	Viable Monitoring Location	Lack of Any Evidence of Tampering	Locked on Arrival & Departure	Hinge/Hasp Operational	Tagged or Labeled	Concrete Surface Pad Effective	Degree of Visual Turbidity of Collected Sample	Comments
MW-1	Yes	Yes	Yes	Yes	Yes	Yes	Slight	
MW-2	Yes	Yes	Yes	Yes	Yes	Yes	Slight	
MW-3	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
MW-4	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
MW-5	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
MW-6S	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
MW-6D	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
MW-7	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
MW-8	Yes	Yes	Yes	Yes	Yes	Yes	Slight	
MW-9	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
P2-5S	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
P2-5D	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
P-4	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
P-17	Yes	Yes	Yes	Yes	Yes	Yes	-	
P-18	Yes	Yes	Yes	Yes	Yes	Yes	Slight	Pad small crack
P-19	Yes	Yes	Yes	Yes	Yes	Yes	-	
SW-1	Yes	-	-	-	-	-	Slight	Moderate gage height & Flow
SW-2	Yes	-	-	-	-	-	Slight	Moderate gage height & Flow
SW-4	No	-	-	-	-	-	Slight	Moderate gage height & Flow

Any unusual field conditions, observations, or events:

Evidence of more precipitation than normal

Table 4
Summary of Field Parameter Data
Cherokee County Subtitle D Lined MSWLF
February 23 & 24, 2010 Sampling Event

Parameter	WLR (BTOC)*	Water Elevation	TOC Elevation	Temp.	ORP	DO	pH	Specific Conductance	TDS	Turbidity
Units	ft	ft (amsl)	ft (amsl)	C	mV	mg/L	SU	umhos/cm	mg/L	Visual
MW-1	94.21	1709.39	1803.60	13.8	139	0.9	5.21	128	62	Slight
MW-2	54.92	1636.42	1691.34	13.8	184	2.8	5.68	64	28	Slight
MW-3	30.46	1658.95	1689.41	14.6	219	2.9	5.78	36	19	Clear
MW-4	16.57	1646.77	1663.34	13.9	221	0.9	5.91	42	17	Clear
MW-5	7.04	1631.10	1638.14	14.5	30	3.2	6.36	76	29	Clear
MW-6S	14.85	1646.32	1661.17	14.9	48	0.4	5.67	257	127	Clear
MW-7	24.95	1624.67	1649.62	14.2	35	1	5.74	303	153	Clear
MW-8	19.08	1622.94	1642.02	12.6	237	1.9	6.08	124	61	Slight
MW-9	11.42	1653.46	1664.88	13.8	218	-	5.36	13	6	Clear
Minimum	7.04	1622.94	1638.14	12.6	30	0.4	5.21	13	6	
Maximum	94.21	1709.39	1803.60	14.9	237	3.2	6.36	303	153	
Average	30.39	1647.78	1678.17	14.01	147.89	1.75	5.75	115.89	55.78	
SW-1	-	-	-	8.5	109	7.1	6.56	33	15	Slight
SW-2	-	-	-	8.4	93	7.2	6.62	29	11	Slight
SW-4	-	-	-	8.5	101	7.2	6.7	28	12	Slight
Minimum	-	-	-	8.4	93	7.1	6.56	28	11	
Maximum	-	-	-	8.5	109	7.2	6.7	33	15	
Average	-	-	-	8.47	101	7.17	6.63	30	12.67	

NR = No Reading Attempted
* = All Water Level Readings Taken on 2/24/10

Appendix A
Statistical Analysis

Statistical Analysis Methodology

Statistical Analysis Methodologies

A statistical analysis was performed on metal and VOC detections utilizing Chemstat software, which was developed specifically for RCRA Subtitle D sites and conforms to both current EPA and SWS protocols. A step-wise approach was utilized to evaluate trends in groundwater quality to identify a potential release from the landfill. Analytical data underwent preliminary data evaluation to reduce the data set and to determine if any "outliers" (defined as data that appears to be incongruent with respect to historical results) or seasonality exists that may potentially effect the results of the subsequent statistical analysis. All statistical tests were evaluated at the 0.05 level of significance, 95% confidence level, and were conducted as one-tailed tests. Statistical background values were calculated using un-manipulated data from historical semi-annual sampling events for this facility from 2000 to the current event. Historical data compiled for monitoring well(s) were used as the baseline. Groundwater data from the downgradient well(s) were compared to the pooled background groundwater data (inter-well) using methods which varied depending upon the percentage of non-detects. If necessary and applicable further intra-well analysis was conducted to compare current data from a single well is compared to it's own respective historical data. Finally parameters that indicated statistical significance after previous tests are evaluated to estimate the change in concentration over time to determine if there is an upward trend.

Preliminary Data Evaluation

A preliminary data screening was conducted upon detections. Parameters detected with concentrations found below quantifiable levels (SWSL) and below those detected within the background well were eliminated and a statistical analysis was not conducted for that particular constituent/well.

Data distributions were reviewed using box and whiskers plots (enclosed charts). In order to evaluate variability in concentrations with respect to time and season, time series plots were generated for select constituents (enclosed charts). Time series plots were also visually evaluated for seasonality and "outliers". Suspected outliers were than further evaluated through Dixon's Test for Outliers or Rosner's Test for Outliers depending upon the number of samples and the data distribution. Outliers are generally not censored from the current nor historical data set prior to statistical analysis but are further evaluated and or qualified as necessary.

Inter-well Analyses

Inter-well statistical analysis was conducted upon total metals detected during this sampling event. Monitoring well MW-1 was defined as the background well, and an upper tolerance limit (UTL) with 95% coverage was computed for each detected constituent from the background data at a 95% level of confidence. For each tested constituent, an appropriate statistical analysis method was selected based on the percentages of non-detects (%ND) in the historical background data. The following Table 1 summarizes the methods used for four different %ND ranges.

Table 1. Statistical Analysis Methods for Various %ND Ranges

%ND	Analysis Method	ND Substitution
%ND<15%	Parametric tolerance limit	1/2 ND
15%<%ND<50%	Parametric tolerance limit	Cohen or 1/2 ND
50%<%ND<90%	Non-parametric tolerance limit	1/2 ND
90%<%ND	Poisson tolerance limit	-

NOTE: For parametric tolerance interval, normality of the background data was checked by the Shapiro-Wilks normality test, as the method requires that the data be normally distributed.

Intra-well Analysis

Intra-well analysis was conducted only upon those constituents that were found to be statistically significant by inter-well analysis and there is sufficient historical samples known to not be impacted. With intra-well comparisons, data from a single well is compared to historical data from the same well. In general, intra-well analysis is typically used to differentiate true contamination from spatial variability. Intra-well analysis is generally conducted through interpretation of Shewhart-CUSUM and/or Exponentially Weighted Moving Average (EWMA) control charts. where applicable.

Poisson Prediction Interval (VOCs)

All historical VOC detections in the background well MW-1 were pooled in order to determine the total number of detections, from which the expected number of detections in a single downgradient monitoring point (y^*) was derived by utilizing the Poisson prediction interval (Table A2) The parameter y^* is defined by the following equation:

$$y^* = cy + \frac{t^2 c}{2} + tc\sqrt{y\left(1+\frac{1}{c}\right)+\frac{t^2}{4}}$$

where

c = 1/ n (n =number of background samples)
t = one-sided value of student's t -Statistic at 95% confidence [a]
y = number of events observed in n previous samples
y^* = expected number of events in a single future sample

[a] Gibbons, R.D., 1994, Statistical methods for groundwater monitoring: John Wiley & Sons, Inc., p.12.

For each monitoring location showing any VOC detections, the number of detected VOCs was counted with each detection being considered a "hit". The number was then compared with the expected number of detections derived from the background VOC data (Table A3). The value of Student's t -Statistic was derived from tabulated values included in Gibbons (1994).

Determine Data Trend Over Time

The parameters that indicated statistical significance a further qualitative evaluation is employed to determine trends in concentration over time. Implementation of Mann-Kendall Trend Analysis or Sen's Slope Analysis is generally used to determine if the concentration trend is increasing, decreasing, or remaining constant.

Statistical Analysis Summary
Tables & Graphs

Inter-Well Analysis Summary
Cherokee County Subtitle D Lined MSWLF

Background Well: MW-1

Barium, total

%ND	Normality	Method	ND Adj.	Upper Limit (a = 95%)	Unit
39.29	-	Non-parametric Tolerance Interval	1/2ND	3000	ug/l

Well	Result	Significance
MW-6S	231	no

NOTE: Bold-faced monitoring points indicate detected levels exceed NCGW2L Standard

No Statistically Significant Metal Detections within any Monitoring Location at a 95% Confidence Level

Summary of Pooled Appendix I VOCs in Background Well (MW-1)
Cherokee County Subtitle D Lined MSWLF

Constituent	Samples	NDs	% NDs
1,1,1,2-Tetrachloroethane	28	28	100.00
1,1,1-Trichloroethane	28	28	100.00
1,1,2,2-Tetrachloroethane	28	28	100.00
1,1,2-Trichloroethane	28	28	100.00
1,1-Dichloroethane	28	28	100.00
1,1-Dichloroethene	28	28	100.00
1,2,3-Trichloropropane	28	28	100.00
1,2-Dibromo-3-chloropropane	28	28	100.00
1,2-Dibromoethane	28	28	100.00
1,2-Dichlorobenzene	28	28	100.00
1,2-Dichloroethane	28	28	100.00
1,2-Dichloropropane	28	28	100.00
1,4-Dichlorobenzene	28	28	100.00
2-Butanone	28	28	100.00
2-Hexanone	28	28	100.00
4-Methyl-2-Pentanone	28	28	100.00
Acetone	28	28	100.00
Acrylonitrile	28	28	100.00
Arsenic	28	28*	100.00
Benzene	28	28	100.00
Bromochloromethane	28	28	100.00
Bromodichloromethane	28	28	100.00
Bromoform	28	28	100.00
Bromomethane	28	27	96.43
Carbon disulfide	28	28*	100.00
Carbon tetrachloride	28	28	100.00
Chlorobenzene	28	28	100.00
Chloroethane	28	28	100.00
Chloroform	28	28	100.00
Chloromethane	28	28	100.00
cis-1,2-Dichloroethene	28	28	100.00
cis-1,3-Dichloropropene	28	28	100.00
Chlorodibromomethane	28	28	100.00
Dibromomethane	28	28	100.00
Ethylbenzene	28	28	100.00
Iodomethane	28	28	100.00
Dichloromethane	28	28	100.00
Styrene	28	28	100.00
Tetrachloroethylene	28	28	100.00
Toluene	28	28	100.00
trans-1,2-Dichloroethene	28	28	100.00
trans-1,3-Dichloropropene	28	28	100.00
trans-1,4-Dichloro-2-butene	28	28	100.00
Trichloroethylene	28	28	100.00
Trichlorofluoromethane	28	28	100.00
Vinyl acetate	28	28	100.00
Vinyl chloride	28	28	100.00
Xylene	28	28	100.00
Total	**1344**	**1343**	**99.93**

*=Detected but below current SWSL therefore treated as ND for Statistical Analysis purposes.

Poisson Prediction Interval Based upon Pooled Background Appendix I VOCs
Cherokee County Subtitle D Lined MSWLF

All detected VOCs >SWSL (Background Well: MW-1)

Well	1,4-DCB	Benzene	cis-1,2-DCE	VCM	Total Cumulative Concentration	Total Detections >SWSL
2L	**6**	**1**	**70**	**0.030**	**-**	**-**
MW-6S	**18.7**	**2.5**	13.3		34.5	3
MW-6D	**7.3**	**2.8**	14.9		25	3
MW-7		**4.5**	36.5	**1.6**	42.6	3
TOTAL	26	9.8	64.7	1.6	102.1	9

All Concentrations in ug/L

"j" qualifiers omitted for statistical analysis purposes

Bold = Detected above 2L Standard (Current as of Sampling Event)

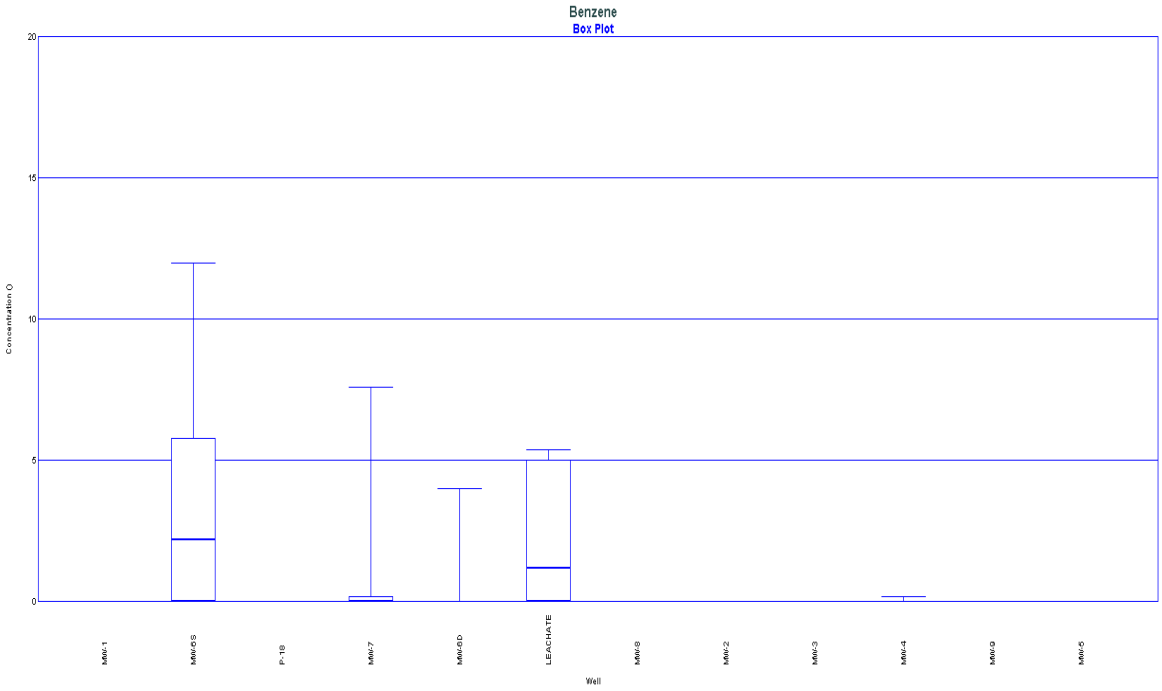
Shaded = Increasing concentration trend per Sen's Slope Indicator Analysis

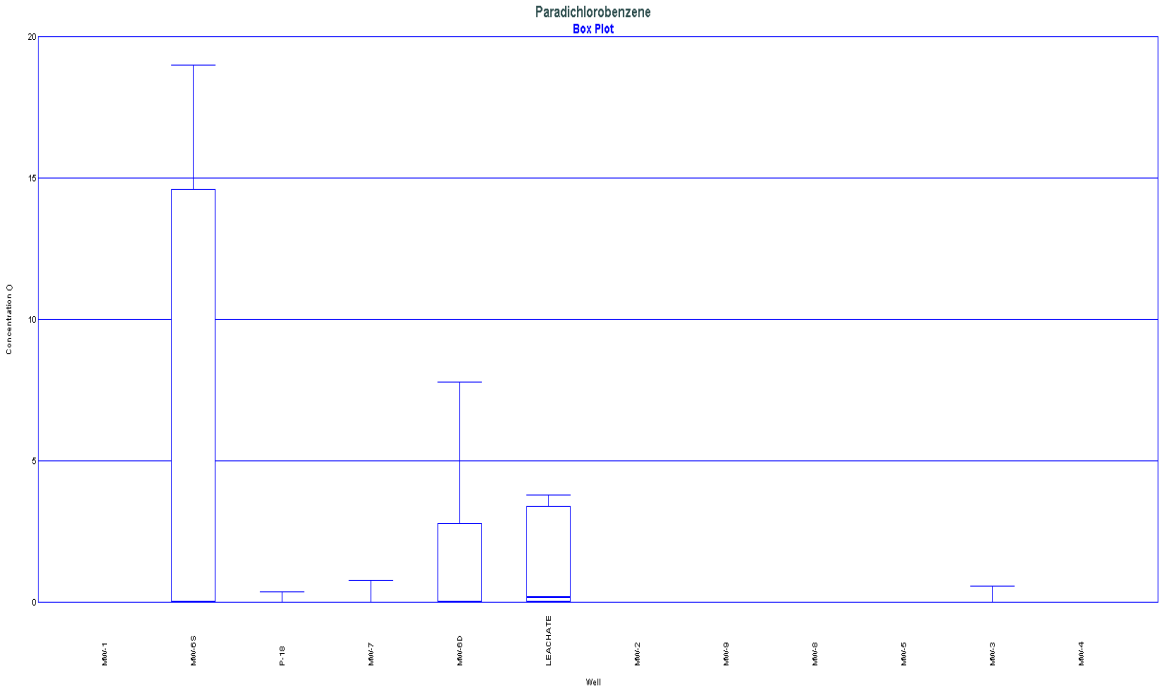
Underlined = Concentration detected outside own historically identified range

Total number of sampling events [n] = 28.6
Total number of detections in background wells [y] = 1
Number of comparisons (downgradient wells) [k] = 10
One-sided value of Student's t-statistic (95% confidence) [t] = 2.77
Expected number of detections in a single future sample [y*] = **0.7116**

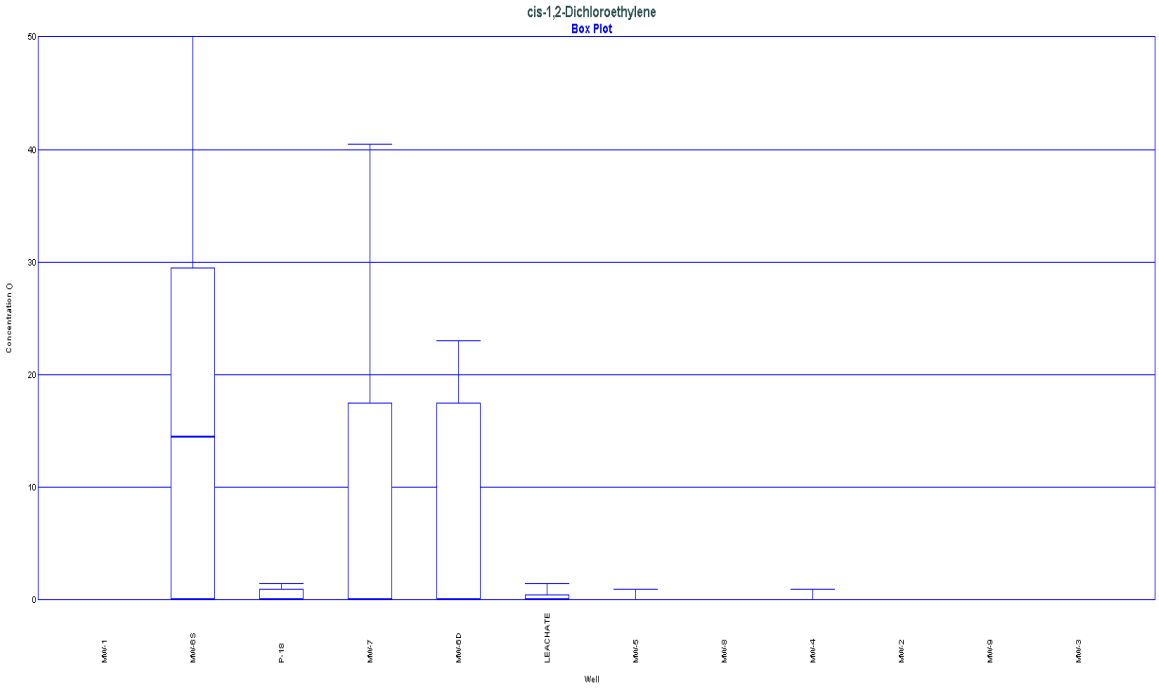
Statistically significant number of VOC detections within:
MW-6S, MW-6D, and MW-7
Per the Poisson Tolerance Interval Method at a 95% Confidence Level
No VOCs have exhibited an increasing trend in concentration per Sen's Slope Indicator Analysis

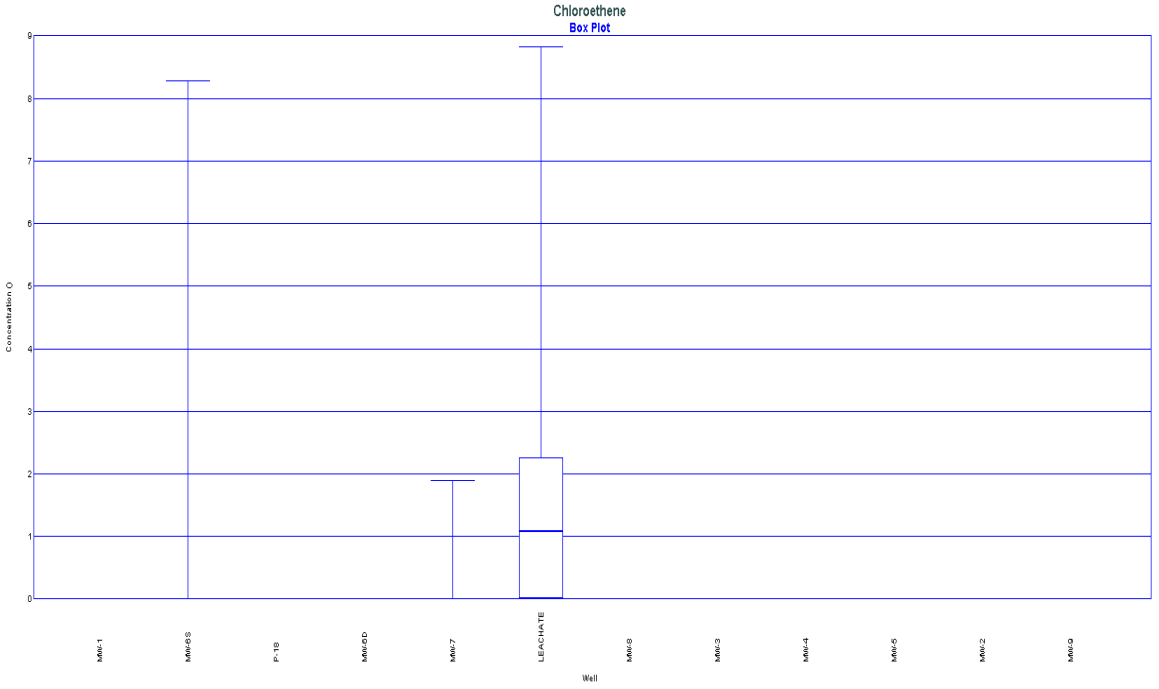
Box Plots for Select Constituents (VOCs)
Cherokee County Subtitle D Lined MSWLF



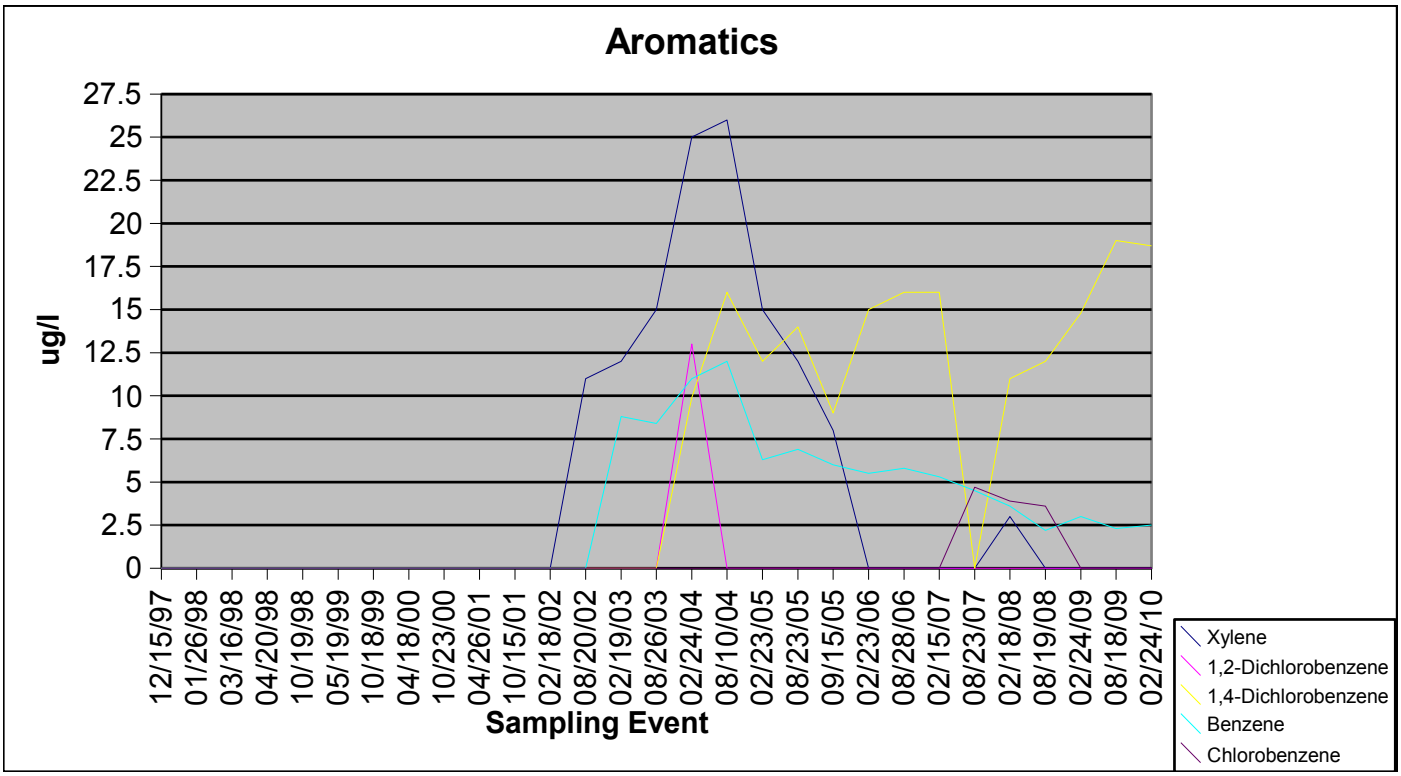


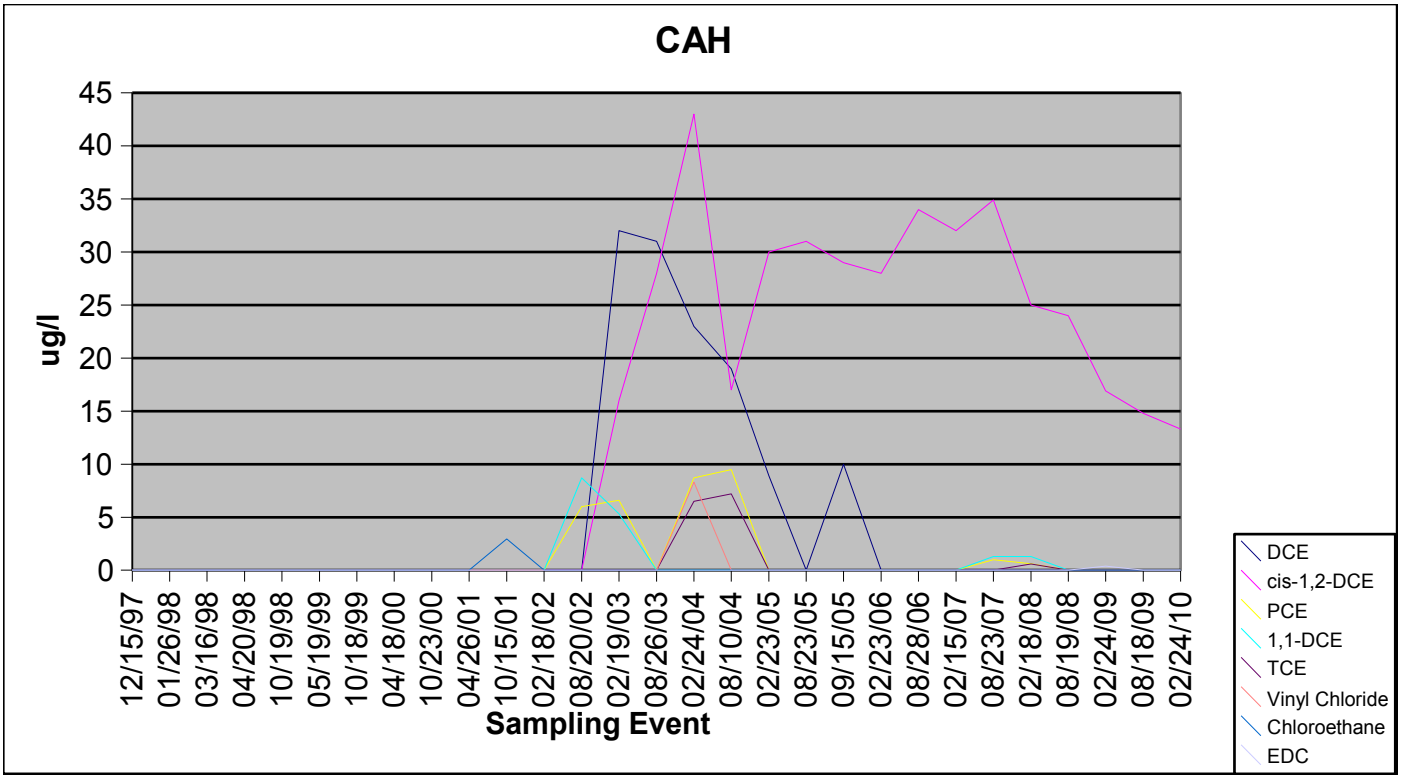
Box Plots for Select Constituents (VOCs)
Cherokee County Subtitle D Lined MSWLF



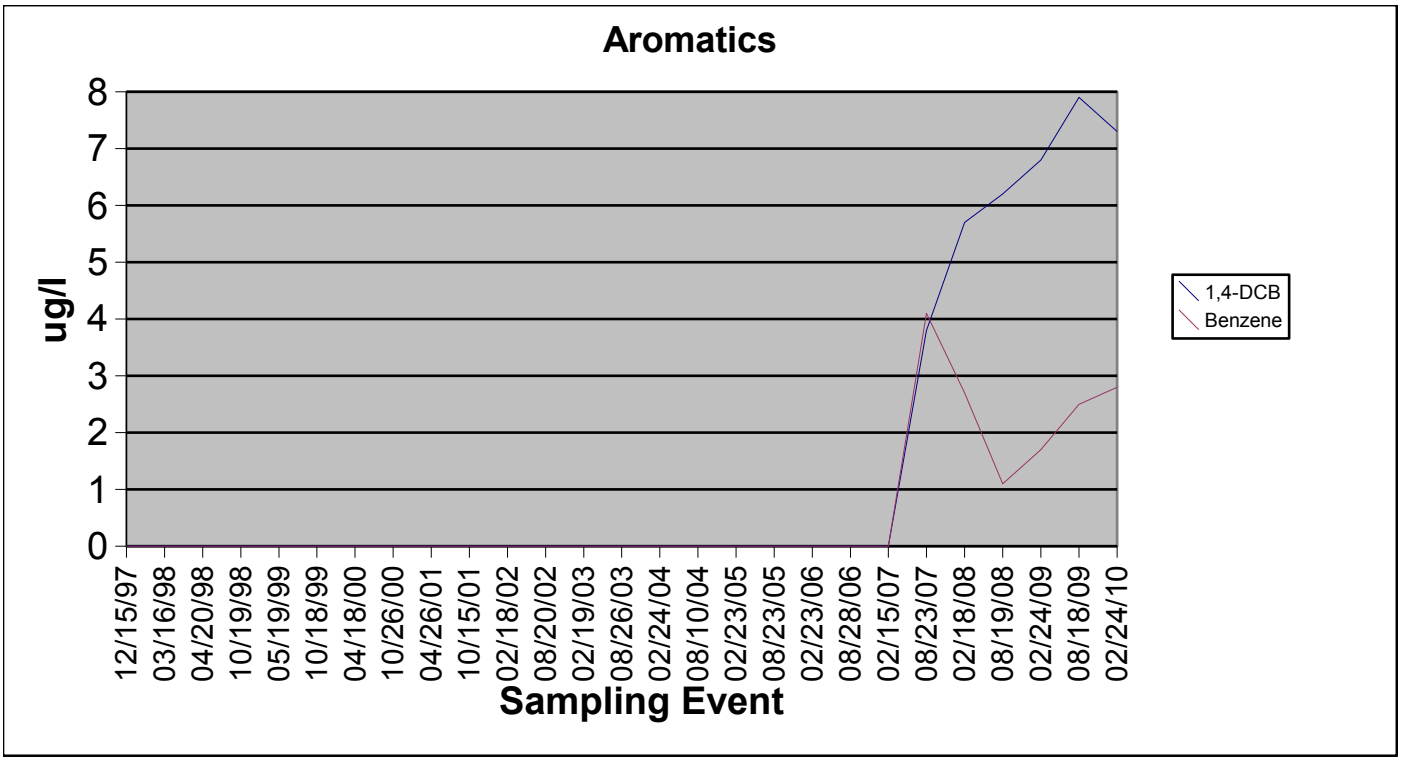


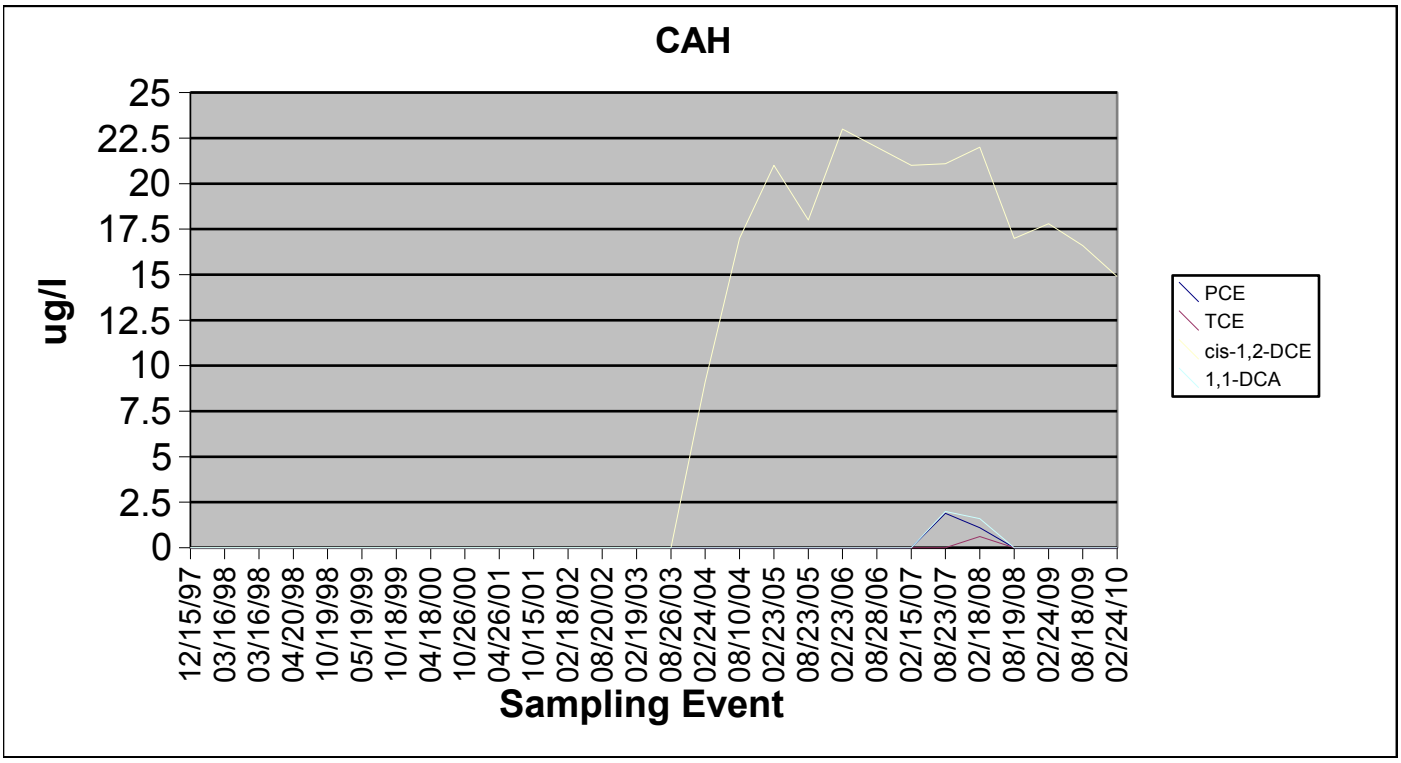
Time Series Plots for All Historical VOCs (MW-6S)
Cherokee County Subtitle D Lined MSWLF



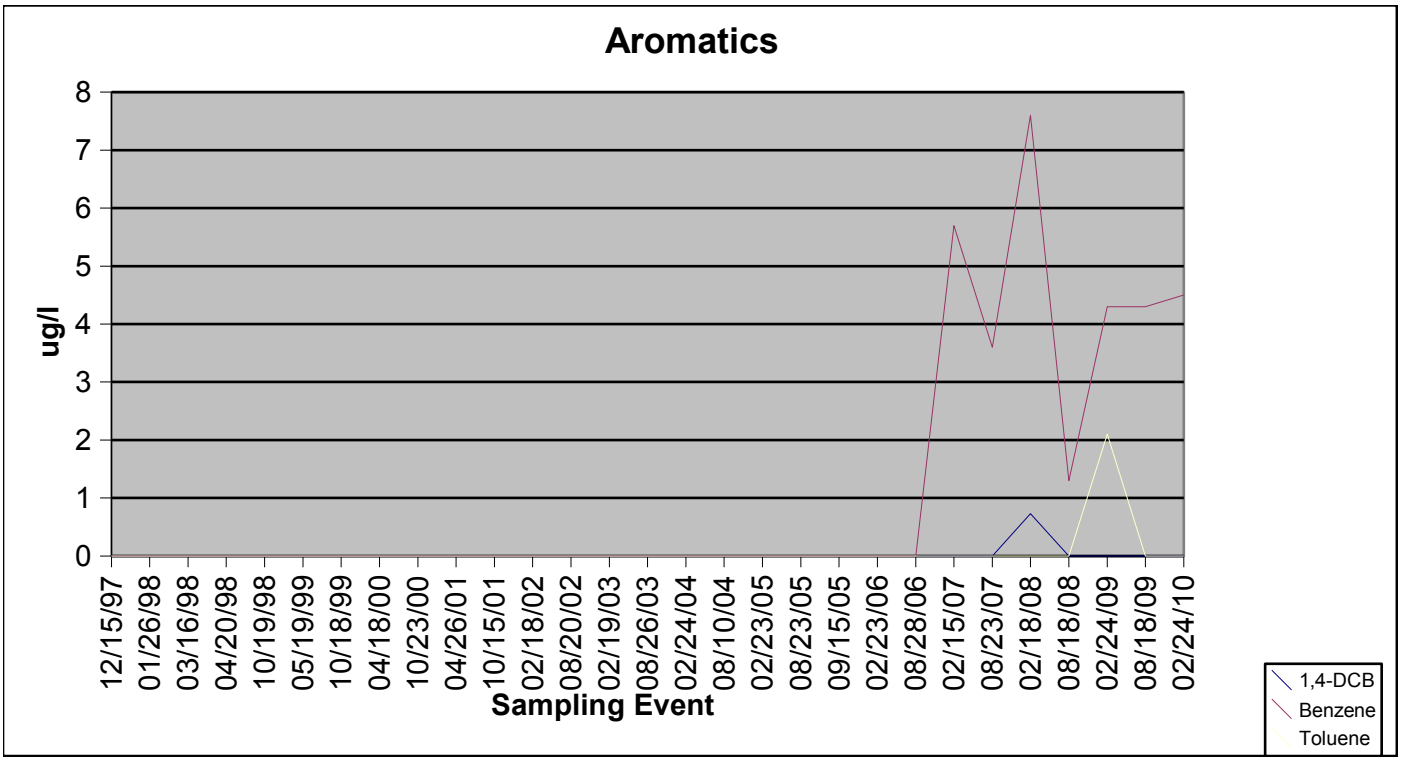


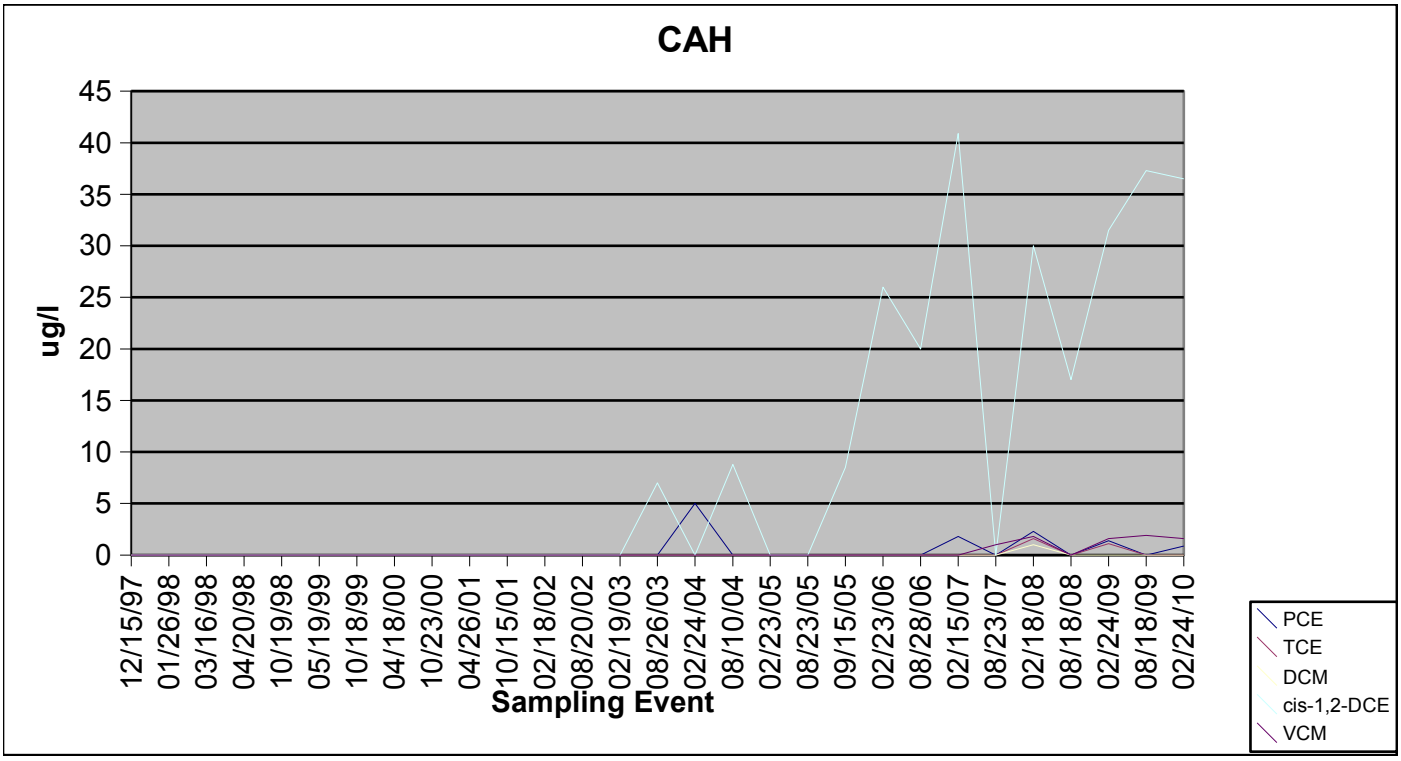
Time Series Plots for All Historical Detected VOCs (MW-6D)
Cherokee County Subtitle D Lined MSWLF



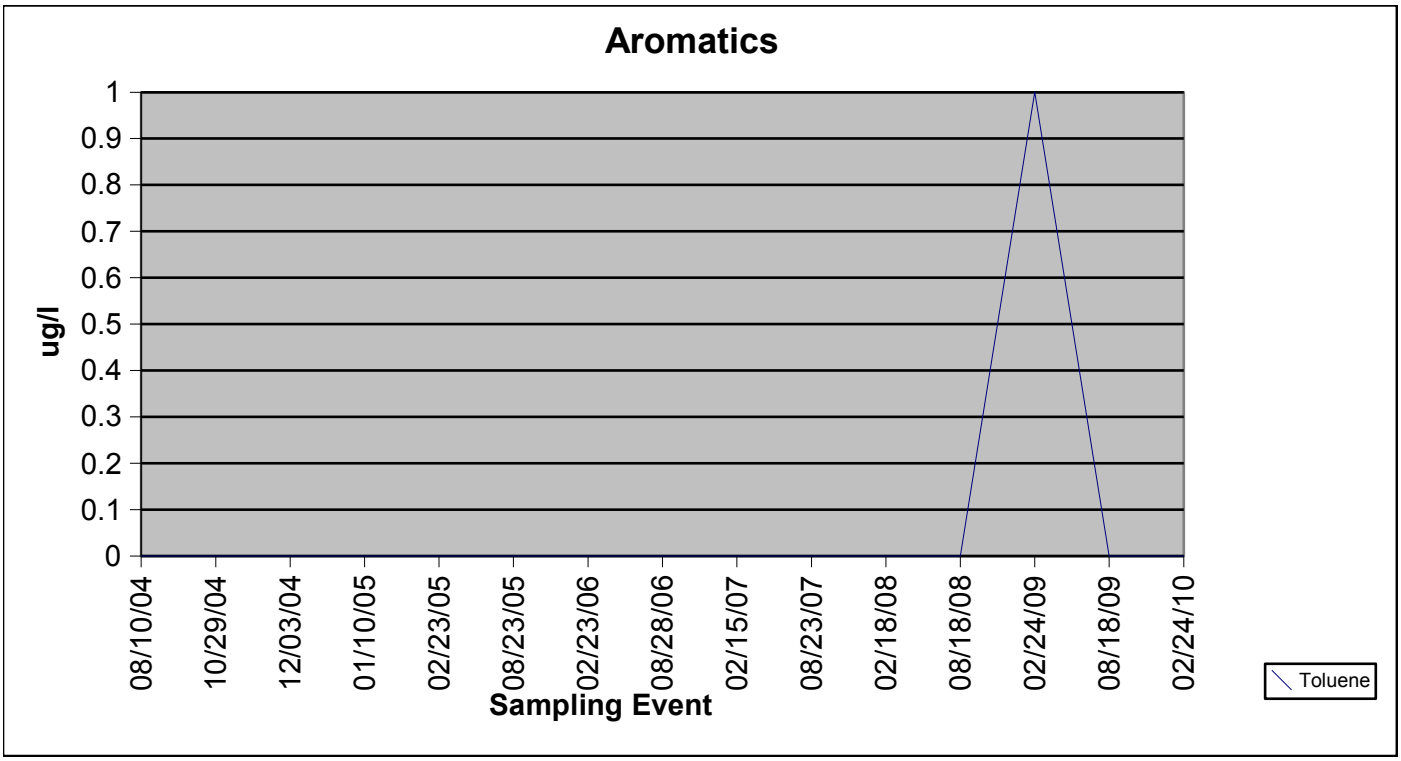


Time Series Plots for All Historical Detected VOCs (MW-7)
Cherokee County Subtitle D Lined MSWLF





Time Series Plots for All Historical Detected VOCs (MW-8)
Cherokee County Subtitle D Lined MSWLF



Statistical Analysis
Basic Statistics

Basic Statistics

Parameter: Barium, total

Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Total Measurements	264
Total Non-Detects	142 (53.7879%)
Pooled Mean	349.232
Pooled Std Dev	660.489
Compliance Meas.	236
Compliance Mean	357.5
Compliance Std Dev	665.104
Background Meas.	28
Background Mean	279.539
Background Std Dev	627.313

Background Locations

There is 1 background location

Location	Meas.	Non-Detects	% ND	Total
MW-1	28	11	39.2857	7827.1

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-1	279.539	627.313	0	3817.5	136.339

Compliance Locations

There are 10 compliance location

Location	Obs.	Non-Detects	% ND	Total
MW-6S	28	12	42.8571	3723.6
MW-7	26	18	69.2308	2527.7
MW-6D	27	27	100	1088.2
LEACHATE	19	5	26.3158	7496
MW-3	27	6	22.2222	28339.1
MW-4	28	7	25	27330.7
MW-8	14	8	57.1429	4478.2
MW-9	14	8	57.1429	4685.7
MW-2	27	18	66.6667	3112.2
MW-5	26	22	84.6154	1588.7

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-6S	132.986	93.2604	-146.554	151.337	3667	130.964
MW-7	97.2192	125.048	-182.32	154.22	2713	104.346
MW-6D	40.3037	78.1359	-239.236	152.732	1930.5	71.5
LEACHATE	394.526	676.055	114.987	168.307	3262.5	171.711
MW-3	1049.6	1148.31	770.057	152.732	5232	193.778
MW-4	976.096	862.728	696.557	151.337	5395.5	192.696
MW-8	319.871	532.069	40.3321	185.349	1839	131.357
MW-9	334.693	450.533	55.1536	185.349	1868	133.429
MW-2	115.267	144.797	-164.273	152.732	2966	109.852
MW-5	61.1038	98.2331	-218.435	154.22	2289	88.0385

Analysis of Variance Statistics

SS Wells	3.36105e+007
SS Total	1.14733e+008

Kruskal-Wallis Statistics

Non-Detect Rank	71.5
Background Rank Sum	3817.5
Background Rank Mean	136.339
H Statistic	71.8505
H Adjusted for Ties	85.0917

Threshold Report

Parameter: Barium, total

Detected Values Only

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

There is 1 background location

Loc.	Obs.	ND	Date	Conc.
MW-1	28	11 (39.2857%)	12/15/1997	1800
			1/26/1998	3000
			3/16/1998	100
			4/18/2000	110
			10/24/2000	240
			4/26/2001	310
			10/15/2001	160
			8/20/2002	210
			2/19/2003	190
			8/26/2003	130
			2/24/2004	110
			8/10/2004	100
			2/23/2005	100
			2/23/2006	130
			2/18/2008	202
			8/17/2009	199
			2/24/2010	123

There is 1 compliance location

Loc.	Obs.	ND	Date	Conc.
MW-6S	28	12 (42.8571%)	12/15/1997	100
			3/16/1998	100
			10/15/2001	150
			2/18/2002	170
			8/20/2002	130
			2/19/2003	200
			8/26/2003	190
			2/24/2004	240
			8/10/2004	140
			2/23/2005	280
			2/23/2006	180
			8/23/2007	125
			8/19/2008	172
			2/24/2009	239
			8/18/2009	164
			2/24/2010	231

Threshold Report

Parameter: Benzene

Detected Values Only

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

There is 1 background location

Loc.	Obs.	ND	Date	Conc.
MW-1	27	27 (100%)		

There are 3 compliance locations

Loc.	Obs.	ND	Date	Conc.
MW-6S	29	13 (44.8276%)	2/19/2003	8.8
			8/26/2003	8.4
			2/24/2004	11
			8/10/2004	12
			2/23/2005	6.3
			8/23/2005	6.9
			9/15/2005	6
			2/23/2006	5.5
			8/28/2006	5.8
			2/15/2007	5.3
			8/23/2007	4.5
			2/18/2008	3.6
			8/19/2008	2.2
			2/24/2009	3
			8/18/2009	2.3
			2/24/2010	2.5
MW-7	28	21 (75%)	2/15/2007	5.7
			8/23/2007	3.6
			2/18/2008	7.6
			8/18/2008	1.3
			2/24/2009	4.3
			8/18/2009	4.3
			2/24/2010	4.5
MW-6D	28	22 (78.5714%)	8/23/2007	4.1
			2/18/2008	2.7
			8/19/2008	1.1
			2/24/2009	1.7
			8/18/2009	2.5
			2/24/2010	2.8

Threshold Report

Parameter: Chloroethene

Detected Values Only

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

There is 1 background location

Loc.	Obs.	ND	Date	Conc.
MW-1	27	27 (100%)		

There are 3 compliance locations

Loc.	Obs.	ND	Date	Conc.
MW-6S	28	26 (92.8571%)	10/15/2001 2/24/2004	2.38 8.3
MW-6D	27	27 (100%)		
MW-7	28	23 (82.1429%)	8/23/2007 2/18/2008 2/24/2009 8/18/2009 2/24/2010	1 1.8 1.6 1.9 1.6

Threshold Report

Parameter: cis-1,2-Dichloroethylene

Detected Values Only

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

There is 1 background location

Loc.	Obs.	ND	Date	Conc.
MW-1	27	27 (100%)		

There are 3 compliance locations

Loc.	Obs.	ND	Date	Conc.
MW-6S	29	13 (44.8276%)	2/19/2003	16
			8/26/2003	28
			2/24/2004	43
			8/10/2004	50
			2/23/2005	30
			8/23/2005	31
			9/15/2005	29
			2/23/2006	28
			8/28/2006	34
			2/15/2007	32
			8/23/2007	34.9
			2/18/2008	25
			8/19/2008	24
			2/24/2009	16.9
			8/18/2009	14.8
			2/24/2010	13.3
MW-7	28	17 (60.7143%)	8/26/2003	7
			8/10/2004	8.8
			2/23/2006	8.5
			8/28/2006	26
			2/15/2007	20
			8/23/2007	40.9
			2/18/2008	30
			8/18/2008	17
			2/24/2009	31.5
			8/18/2009	37.3
			2/24/2010	36.5
MW-6D	28	15 (53.5714%)	2/24/2004	9.1
			8/10/2004	17
			2/23/2005	21
			8/23/2005	18
			2/23/2006	23
			8/28/2006	22
			2/15/2007	21
			8/23/2007	21.1
			2/18/2008	22
			8/19/2008	17
			2/24/2009	17.8
			8/18/2009	16.6
			2/24/2010	14.9

Threshold Report

Parameter: Paradichlorobenzene

Detected Values Only

Original Data (Not Transformed)

Non-Detects Replaced with 1/2 DL

There is 1 background location

Loc.	Obs.	ND	Date	Conc.
MW-1	28	28 (100%)		

There are 3 compliance locations

Loc.	Obs.	ND	Date	Conc.
MW-6S	30	16 (53.3333%)	2/24/2004	9.9
			8/10/2004	16
			2/23/2005	12
			8/23/2005	14
			9/15/2005	9
			2/23/2006	15
			8/28/2006	16
			2/15/2007	16
			2/18/2008	11
			8/19/2008	12
			2/24/2009	14.8
			2/24/2009	8.5
			8/18/2009	19
			2/24/2010	18.7
MW-7	28	26 (92.8571%)	2/18/2008	0.73
			2/24/2009	0.83
MW-6D	30	23 (76.6667%)	8/23/2007	3.8
			2/18/2008	5.7
			8/19/2008	6.2
			2/24/2009	6.8
			8/18/2009	7.9
			8/18/2009	7.9
			2/24/2010	7.3

Statistical Analysis
Inter-well Analysis

Shapiro-Wilks Test of Normality

Parameter: Barium, total
Background Locations
Normality Test of Parameter Concentrations

Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL
K = 14 for 28 measurements

i	x(i)	x(n-i+1)	x(n-1+1)-x(i)	a(n-i+1)	b(i)
1	0.1	3000	2999.9	0.4328	1298.36
2	0.5	1800	1799.5	0.2993	538.59
3	2.5	310	307.5	0.251	77.1825
4	2.5	250	247.5	0.2151	53.2373
5	2.5	250	247.5	0.1857	45.9608
6	2.5	240	237.5	0.1601	38.0238
7	2.5	210	207.5	0.1372	28.469
8	50	202	152	0.1162	17.6624
9	50	199	149	0.0965	14.3785
10	100	190	90	0.0778	7.002
11	100	160	60	0.0598	3.588
12	100	130	30	0.0424	1.272
13	110	130	20	0.0253	0.506
14	110	123	13	0.0084	0.1092
15	123	110	-13		
16	130	110	-20		
17	130	100	-30		
18	160	100	-60		
19	190	100	-90		
20	199	50	-149		
21	202	50	-152		
22	210	2.5	-207.5		
23	240	2.5	-237.5		
24	250	2.5	-247.5		
25	250	2.5	-247.5		
26	310	2.5	-307.5		
27	1800	0.5	-1799.5		
28	3000	0.1	-2999.9		

Sum of b values = 2124.34
Sample Standard Deviation = 627.313
W Statistic = 0.424732

5% Critical value of 0.924 exceeds 0.424732
Evidence of non-normality at 95% level of significance

1% Critical value of 0.896 exceeds 0.424732
Evidence of non-normality at 99% level of significance

Non-Parametric Tolerance Interval

Parameter: Barium, total

Original Data (Not Transformed)
Non-Detects Replaced with 1/2 DL

Total Percent Non-Detects = 41.0714%
Background measurements (n) = 28
Maximum Background Concentration = 3000
Minimum Coverage = 89.9%
Average Coverage = 96.5517%

Location	Date	Value	Significant
MW-6S	12/15/1997	100	FALSE
MW-6S	1/26/1998	ND<50	FALSE
MW-6S	3/16/1998	100	FALSE
MW-6S	4/20/1998	ND<50	FALSE
MW-6S	10/19/1998	ND<50	FALSE
MW-6S	5/19/1999	ND<2.5	FALSE
MW-6S	10/18/1999	ND<2.5	FALSE
MW-6S	4/18/2000	ND<2.5	FALSE
MW-6S	10/23/2000	ND<2.5	FALSE
MW-6S	4/26/2001	ND<2.5	FALSE
MW-6S	10/15/2001	150	FALSE
MW-6S	2/18/2002	170	FALSE
MW-6S	8/20/2002	130	FALSE
MW-6S	2/19/2003	200	FALSE
MW-6S	8/26/2003	190	FALSE
MW-6S	2/24/2004	240	FALSE
MW-6S	8/10/2004	140	FALSE
MW-6S	2/23/2005	280	FALSE
MW-6S	8/23/2005	ND<250	FALSE
MW-6S	2/23/2006	180	FALSE
MW-6S	8/28/2006	ND<250	FALSE
MW-6S	2/15/2007	ND<250	FALSE
MW-6S	8/23/2007	125	FALSE
MW-6S	2/18/2008	ND<0.1	FALSE
MW-6S	8/19/2008	172	FALSE
MW-6S	2/24/2009	239	FALSE
MW-6S	8/18/2009	164	FALSE
MW-6S	2/24/2010	231	FALSE

Appendix B
Laboratory Analysis Report
Chains of Custody Field
Sampling Parameter Data Sheet(s)

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(704)875-9092

March 19, 2010

Mr. Jonathan Pfohl
Municipal Engineering Services
PO Box 97
Garner, NC 27529

RE: Project: CHEROKEE LINED
Pace Project No.: 9264068

Dear Mr. Pfohl:
Enclosed are the analytical results for sample(s) received by the laboratory on February 25, 2010. 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,

Kevin Godwin

kevin.godwin@pacelabs.com
Project Manager

Enclosures

cc: Ms. Maggie German, Municipal Engineering Services

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CERTIFICATIONS

Project: CHEROKEE LINED
Pace Project No.: 9264068

Charlotte Certification IDs
9800 Kincey Ave. - Ste 100 Huntersville, NC 28078
West Virginia Certification #: 357
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 990060001
South Carolina Drinking Water Cert. #: 990060003
Tennessee Certification #: 04010
Virginia Certification #: 00213

Asheville Certification IDs
2225 Riverside Dr. Asheville, NC 28804
Connecticut Certification #: PH-0106
Louisiana/LELAP Certification #: 03095
Massachusetts Certification #: M-NC030
New Jersey Certification #: NC011
North Carolina Bioassay Certification #: 9
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
Pennsylvania Certification #: 68-03578
South Carolina Bioassay Certification #: 99030002
South Carolina Certification #: 99030001
Tennessee Certification #: 2980
Virginia Certification #: 00072
West Virginia Certification #: 356
Florida/NELAP Certification #: E87648

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SAMPLE SUMMARY

Project: CHEROKEE LINED
Pace Project No.: 9264068

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9264068001	**MW-1**	Water	02/24/10 08:30	02/25/10 13:10
9264068002	**MW-2**	Water	02/24/10 09:20	02/25/10 13:10
9264068003	**MW-3**	Water	02/24/10 10:15	02/25/10 13:10
9264068004	**MW-4**	Water	02/23/10 11:15	02/25/10 13:10
9264068005	**MW-5**	Water	02/24/10 13:00	02/25/10 13:10
9264068006	**MW-6S**	Water	02/24/10 16:10	02/25/10 13:10
9264068007	**MW-6D**	Water	02/24/10 15:10	02/25/10 13:10
9264068008	**MW-7**	Water	02/24/10 14:20	02/25/10 13:10
9264068009	**MW-8**	Water	02/24/10 13:30	02/25/10 13:10
9264068010	**MW-9**	Water	02/23/10 17:00	02/25/10 13:10
9264068011	**P-18**	Water	02/24/10 12:30	02/25/10 13:10
9264068012	**LAGOON**	Water	02/24/10 16:00	02/25/10 13:10

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SAMPLE ANALYTE COUNT

Project: CHEROKEE LINED
Pace Project No.: 9264068

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9264068001	**MW-1**	EPA 6010	EWS	16	PASI-A
		EPA 7470	JMW	1	PASI-A
		EPA 8260	MCK	66	PASI-C
		SM 4500-S2D	SHB	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
9264068002	**MW-2**	EPA 6010	EWS	15	PASI-A
		EPA 8260	MCK	52	PASI-C
9264068003	**MW-3**	EPA 6010	EWS	15	PASI-A
		EPA 8260	MCK	52	PASI-C
9264068004	**MW-4**	EPA 6010	EWS	15	PASI-A
		EPA 8260	MCK	52	PASI-C
9264068005	**MW-5**	EPA 6010	EWS	15	PASI-A
		EPA 8260	MCK	52	PASI-C
9264068006	**MW-6S**	EPA 8082	CAH	8	PASI-C
		EPA 6010	EWS	16	PASI-A
		EPA 7470	JMW	1	PASI-A
		EPA 8260	MCK	66	PASI-C
		SM 4500-S2D	SHB	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
9264068007	**MW-6D**	EPA 8082	CAH	8	PASI-C
		EPA 6010	EWS	16	PASI-A
		EPA 7470	JMW	1	PASI-A
		EPA 8260	MCK	66	PASI-C
		SM 4500-S2D	SHB	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
9264068008	**MW-7**	EPA 8082	CAH	8	PASI-C
		EPA 6010	EWS	16	PASI-A
		EPA 7470	JMW	1	PASI-A
		EPA 8260	MCK	66	PASI-C
		SM 4500-S2D	SHB	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
9264068009	**MW-8**	EPA 8082	CAH	8	PASI-C
		EPA 6010	EWS	16	PASI-A

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SAMPLE ANALYTE COUNT

Project: CHEROKEE LINED
Pace Project No.: 9264068

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 7470	JMW	1	PASI-A
		EPA 8260	MCK	66	PASI-C
		SM 4500-S2D	SHB	1	PASI-A
		SM 4500-Cl-E	JDA	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
9264068010	**MW-9**	EPA 6010	EWS	15	PASI-A
		EPA 8260	MCK	52	PASI-C
9264068011	**P-18**	EPA 8260	MCK	66	PASI-C
9264068012	**LAGOON**	EPA 6010	EWS	16	PASI-A
		EPA 7470	JMW	1	PASI-A
		EPA 8260	MCK	52	PASI-C
		SM 5210B	SHB	1	PASI-A
		EPA 9040	LEP	1	PASI-A
		EPA 353.2	RAB	1	PASI-A
		EPA 365.1	JDA	1	PASI-A
		SM 4500-CN-E	JDA	1	PASI-A
		SM 5220D	LEP	1	PASI-A
		ASTM D516-90	SHB	1	PASI-A

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ANALYTICAL RESULTS

Project: CHEROKEE LINED
Pace Project No.: 9264068

Sample: MW-1 **Lab ID: 9264068001** Collected: 02/24/10 08:30 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	2.6	1	03/04/10 13:49	03/11/10 17:49	7440-36-0	
Arsenic	**5.1J**	ug/L	10.0	2.7	1	03/04/10 13:49	03/11/10 17:49	7440-38-2	
Barium	**123**	ug/L	100	0.20	1	03/04/10 13:49	03/11/10 17:49	7440-39-3	
Beryllium	**2.2**	ug/L	1.0	0.10	1	03/04/10 13:49	03/11/10 17:49	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	03/04/10 13:49	03/11/10 17:49	7440-43-9	
Chromium	**45.7**	ug/L	10.0	0.40	1	03/04/10 13:49	03/11/10 17:49	7440-47-3	
Cobalt	**69.4**	ug/L	10.0	0.60	1	03/04/10 13:49	03/11/10 17:49	7440-48-4	
Copper	**47.7**	ug/L	10.0	0.30	1	03/04/10 13:49	03/11/10 17:49	7440-50-8	
Lead	**17.2**	ug/L	10.0	4.0	1	03/04/10 13:49	03/11/10 17:49	7439-92-1	
Nickel	**59.7**	ug/L	50.0	1.7	1	03/04/10 13:49	03/11/10 17:49	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	03/04/10 13:49	03/11/10 17:49	7782-49-2	
Silver	**0.14J**	ug/L	10.0	0.10	1	03/04/10 13:49	03/11/10 17:49	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	03/04/10 13:49	03/11/10 17:49	7440-28-0	
Tin	**8.8J**	ug/L	100	1.8	1	03/04/10 13:49	03/11/10 17:49	7440-31-5	
Vanadium	**33.9**	ug/L	25.0	0.20	1	03/04/10 13:49	03/11/10 17:49	7440-62-2	
Zinc	**83.8**	ug/L	10.0	0.40	1	03/04/10 13:49	03/11/10 17:49	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.11J**	ug/L	0.20	0.070	1	03/01/10 12:30	03/04/10 15:06	7439-97-6	Z2
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		03/01/10 01:58	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		03/01/10 01:58	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		03/01/10 01:58	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		03/01/10 01:58	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		03/01/10 01:58	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		03/01/10 01:58	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		03/01/10 01:58	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		03/01/10 01:58	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		03/01/10 01:58	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		03/01/10 01:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		03/01/10 01:58	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		03/01/10 01:58	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		03/01/10 01:58	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		03/01/10 01:58	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		03/01/10 01:58	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		03/01/10 01:58	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		03/01/10 01:58	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		03/01/10 01:58	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		03/01/10 01:58	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		03/01/10 01:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		03/01/10 01:58	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		03/01/10 01:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		03/01/10 01:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		03/01/10 01:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		03/01/10 01:58	106-46-7	

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ACCREDITED IN ACCORDANCE WITH nelac

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ANALYTICAL RESULTS

Project: CHEROKEE LINED
Pace Project No.: 9264068

Sample: MW-1 **Lab ID: 9264068001** Collected: 02/24/10 08:30 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		03/01/10 01:58	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		03/01/10 01:58	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		03/01/10 01:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		03/01/10 01:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		03/01/10 01:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		03/01/10 01:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		03/01/10 01:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		03/01/10 01:58	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		03/01/10 01:58	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		03/01/10 01:58	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		03/01/10 01:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		03/01/10 01:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		03/01/10 01:58	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/01/10 01:58	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		03/01/10 01:58	97-63-2	
2-Hexanone	ND	ug/L	50.0	0.46	1		03/01/10 01:58	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		03/01/10 01:58	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		03/01/10 01:58	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		03/01/10 01:58	126-98-7	
Methylene Chloride	ND	ug/L	2.0	0.97	1		03/01/10 01:58	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		03/01/10 01:58	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		03/01/10 01:58	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		03/01/10 01:58	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		03/01/10 01:58	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		03/01/10 01:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		03/01/10 01:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		03/01/10 01:58	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		03/01/10 01:58	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		03/01/10 01:58	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		03/01/10 01:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		03/01/10 01:58	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		03/01/10 01:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		03/01/10 01:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		03/01/10 01:58	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		03/01/10 01:58	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		03/01/10 01:58	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		03/01/10 01:58	1330-20-7	
4-Bromofluorobenzene (S)	99	%	87-109		1		03/01/10 01:58	460-00-4	
Dibromofluoromethane (S)	107	%	85-115		1		03/01/10 01:58	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	79-120		1		03/01/10 01:58	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		03/01/10 01:58	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		03/03/10 17:30		M0

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ANALYTICAL RESULTS

Project: CHEROKEE LINED
Pace Project No.: 9264068

Sample: MW-1 **Lab ID: 9264068001** Collected: 02/24/10 08:30 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	ND	ug/L	5000	5000	1		02/27/10 14:17	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	ug/L	10.0	5.0	1		03/07/10 11:37	57-12-5	

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ANALYTICAL RESULTS

Project: CHEROKEE LINED
Pace Project No.: 9264068

Sample: MW-2 **Lab ID: 9264068002** Collected: 02/24/10 09:20 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	2.6	1	03/04/10 13:49	03/11/10 17:56	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	03/04/10 13:49	03/11/10 17:56	7440-38-2	
Barium	**11.8J**	ug/L	100	0.20	1	03/04/10 13:49	03/11/10 17:56	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	03/04/10 13:49	03/11/10 17:56	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	03/04/10 13:49	03/11/10 17:56	7440-43-9	
Chromium	**1.0J**	ug/L	10.0	0.40	1	03/04/10 13:49	03/11/10 17:56	7440-47-3	
Cobalt	ND	ug/L	10.0	0.60	1	03/04/10 13:49	03/11/10 17:56	7440-48-4	
Copper	**0.32J**	ug/L	10.0	0.30	1	03/04/10 13:49	03/11/10 17:56	7440-50-8	
Lead	ND	ug/L	10.0	4.0	1	03/04/10 13:49	03/11/10 17:56	7439-92-1	
Nickel	ND	ug/L	50.0	1.7	1	03/04/10 13:49	03/11/10 17:56	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	03/04/10 13:49	03/11/10 17:56	7782-49-2	
Silver	ND	ug/L	10.0	0.10	1	03/04/10 13:49	03/11/10 17:56	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	03/04/10 13:49	03/11/10 17:56	7440-28-0	
Vanadium	**0.37J**	ug/L	25.0	0.20	1	03/04/10 13:49	03/11/10 17:56	7440-62-2	
Zinc	**6.6J**	ug/L	10.0	0.40	1	03/04/10 13:49	03/11/10 17:56	7440-66-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		03/01/10 02:22	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		03/01/10 02:22	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		03/01/10 02:22	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		03/01/10 02:22	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		03/01/10 02:22	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		03/01/10 02:22	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		03/01/10 02:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		03/01/10 02:22	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		03/01/10 02:22	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		03/01/10 02:22	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		03/01/10 02:22	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		03/01/10 02:22	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		03/01/10 02:22	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		03/01/10 02:22	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		03/01/10 02:22	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		03/01/10 02:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		03/01/10 02:22	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		03/01/10 02:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		03/01/10 02:22	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		03/01/10 02:22	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		03/01/10 02:22	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		03/01/10 02:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		03/01/10 02:22	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		03/01/10 02:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		03/01/10 02:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		03/01/10 02:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		03/01/10 02:22	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		03/01/10 02:22	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		03/01/10 02:22	10061-01-5	

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ANALYTICAL RESULTS

Project: CHEROKEE LINED
Pace Project No.: 9264068

Sample: MW-2 **Lab ID: 9264068002** Collected: 02/24/10 09:20 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		03/01/10 02:22	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/01/10 02:22	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		03/01/10 02:22	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		03/01/10 02:22	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		03/01/10 02:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		03/01/10 02:22	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		03/01/10 02:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		03/01/10 02:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		03/01/10 02:22	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		03/01/10 02:22	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		03/01/10 02:22	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		03/01/10 02:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		03/01/10 02:22	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		03/01/10 02:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		03/01/10 02:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		03/01/10 02:22	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		03/01/10 02:22	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		03/01/10 02:22	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		03/01/10 02:22	1330-20-7	
4-Bromofluorobenzene (S)	99	%	87-109		1		03/01/10 02:22	460-00-4	
Dibromofluoromethane (S)	104	%	85-115		1		03/01/10 02:22	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	79-120		1		03/01/10 02:22	17060-07-0	
Toluene-d8 (S)	102	%	70-120		1		03/01/10 02:22	2037-26-5	

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ANALYTICAL RESULTS

Project: CHEROKEE LINED
Pace Project No.: 9264068

Sample: MW-3 **Lab ID: 9264068003** Collected: 02/24/10 10:15 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	2.6	1	03/04/10 13:49	03/11/10 17:59	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	03/04/10 13:49	03/11/10 17:59	7440-38-2	
Barium	**18.5J**	ug/L	100	0.20	1	03/04/10 13:49	03/11/10 17:59	7440-39-3	
Beryllium	**0.10J**	ug/L	1.0	0.10	1	03/04/10 13:49	03/11/10 17:59	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	03/04/10 13:49	03/11/10 17:59	7440-43-9	
Chromium	**0.92J**	ug/L	10.0	0.40	1	03/04/10 13:49	03/11/10 17:59	7440-47-3	
Cobalt	ND	ug/L	10.0	0.60	1	03/04/10 13:49	03/11/10 17:59	7440-48-4	
Copper	ND	ug/L	10.0	0.30	1	03/04/10 13:49	03/11/10 17:59	7440-50-8	
Lead	ND	ug/L	10.0	4.0	1	03/04/10 13:49	03/11/10 17:59	7439-92-1	
Nickel	ND	ug/L	50.0	1.7	1	03/04/10 13:49	03/11/10 17:59	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	03/04/10 13:49	03/11/10 17:59	7782-49-2	
Silver	ND	ug/L	10.0	0.10	1	03/04/10 13:49	03/11/10 17:59	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	03/04/10 13:49	03/11/10 17:59	7440-28-0	
Vanadium	**0.24J**	ug/L	25.0	0.20	1	03/04/10 13:49	03/11/10 17:59	7440-62-2	
Zinc	**7.1J**	ug/L	10.0	0.40	1	03/04/10 13:49	03/11/10 17:59	7440-66-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		03/01/10 02:46	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		03/01/10 02:46	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		03/01/10 02:46	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		03/01/10 02:46	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		03/01/10 02:46	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		03/01/10 02:46	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		03/01/10 02:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		03/01/10 02:46	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		03/01/10 02:46	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		03/01/10 02:46	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		03/01/10 02:46	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		03/01/10 02:46	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		03/01/10 02:46	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		03/01/10 02:46	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		03/01/10 02:46	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		03/01/10 02:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		03/01/10 02:46	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		03/01/10 02:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		03/01/10 02:46	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		03/01/10 02:46	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		03/01/10 02:46	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		03/01/10 02:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		03/01/10 02:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		03/01/10 02:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		03/01/10 02:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		03/01/10 02:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		03/01/10 02:46	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		03/01/10 02:46	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		03/01/10 02:46	10061-01-5	

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ANALYTICAL RESULTS

Project: CHEROKEE LINED
Pace Project No.: 9264068

Sample: MW-3 **Lab ID: 9264068003** Collected: 02/24/10 10:15 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		03/01/10 02:46	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/01/10 02:46	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		03/01/10 02:46	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		03/01/10 02:46	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		03/01/10 02:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		03/01/10 02:46	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		03/01/10 02:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		03/01/10 02:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		03/01/10 02:46	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		03/01/10 02:46	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		03/01/10 02:46	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		03/01/10 02:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		03/01/10 02:46	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		03/01/10 02:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		03/01/10 02:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		03/01/10 02:46	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		03/01/10 02:46	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		03/01/10 02:46	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		03/01/10 02:46	1330-20-7	
4-Bromofluorobenzene (S)	98	%	87-109		1		03/01/10 02:46	460-00-4	
Dibromofluoromethane (S)	103	%	85-115		1		03/01/10 02:46	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	79-120		1		03/01/10 02:46	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		03/01/10 02:46	2037-26-5	

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ANALYTICAL RESULTS

Project: CHEROKEE LINED
Pace Project No.: 9264068

Sample: MW-4 **Lab ID: 9264068004** Collected: 02/23/10 11:15 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	2.6	1	03/04/10 13:49	03/11/10 18:02	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	03/04/10 13:49	03/11/10 18:02	7440-38-2	
Barium	**10.0J**	ug/L	100	0.20	1	03/04/10 13:49	03/11/10 18:02	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	03/04/10 13:49	03/11/10 18:02	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	03/04/10 13:49	03/11/10 18:02	7440-43-9	
Chromium	**0.83J**	ug/L	10.0	0.40	1	03/04/10 13:49	03/11/10 18:02	7440-47-3	
Cobalt	ND	ug/L	10.0	0.60	1	03/04/10 13:49	03/11/10 18:02	7440-48-4	
Copper	ND	ug/L	10.0	0.30	1	03/04/10 13:49	03/11/10 18:02	7440-50-8	
Lead	ND	ug/L	10.0	4.0	1	03/04/10 13:49	03/11/10 18:02	7439-92-1	
Nickel	ND	ug/L	50.0	1.7	1	03/04/10 13:49	03/11/10 18:02	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	03/04/10 13:49	03/11/10 18:02	7782-49-2	
Silver	ND	ug/L	10.0	0.10	1	03/04/10 13:49	03/11/10 18:02	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	03/04/10 13:49	03/11/10 18:02	7440-28-0	
Vanadium	**0.50J**	ug/L	25.0	0.20	1	03/04/10 13:49	03/11/10 18:02	7440-62-2	
Zinc	**6.5J**	ug/L	10.0	0.40	1	03/04/10 13:49	03/11/10 18:02	7440-66-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		03/01/10 01:10	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		03/01/10 01:10	107-13-1	
Benzene	**0.46J**	ug/L	1.0	0.25	1		03/01/10 01:10	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		03/01/10 01:10	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		03/01/10 01:10	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		03/01/10 01:10	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		03/01/10 01:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		03/01/10 01:10	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		03/01/10 01:10	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		03/01/10 01:10	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		03/01/10 01:10	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		03/01/10 01:10	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		03/01/10 01:10	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		03/01/10 01:10	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		03/01/10 01:10	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		03/01/10 01:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		03/01/10 01:10	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		03/01/10 01:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		03/01/10 01:10	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		03/01/10 01:10	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		03/01/10 01:10	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		03/01/10 01:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		03/01/10 01:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		03/01/10 01:10	75-35-4	
cis-1,2-Dichloroethene	**1.3J**	ug/L	5.0	0.19	1		03/01/10 01:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		03/01/10 01:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		03/01/10 01:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		03/01/10 01:10	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		03/01/10 01:10	10061-01-5	

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ANALYTICAL RESULTS

Project: CHEROKEE LINED
Pace Project No.: 9264068

Sample: MW-4 **Lab ID: 9264068004** Collected: 02/23/10 11:15 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		03/01/10 01:10	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/01/10 01:10	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		03/01/10 01:10	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		03/01/10 01:10	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		03/01/10 01:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		03/01/10 01:10	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		03/01/10 01:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		03/01/10 01:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		03/01/10 01:10	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		03/01/10 01:10	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		03/01/10 01:10	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		03/01/10 01:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		03/01/10 01:10	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		03/01/10 01:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		03/01/10 01:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		03/01/10 01:10	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		03/01/10 01:10	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		03/01/10 01:10	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		03/01/10 01:10	1330-20-7	
4-Bromofluorobenzene (S)	98	%	87-109		1		03/01/10 01:10	460-00-4	
Dibromofluoromethane (S)	106	%	85-115		1		03/01/10 01:10	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	79-120		1		03/01/10 01:10	17060-07-0	
Toluene-d8 (S)	102	%	70-120		1		03/01/10 01:10	2037-26-5	

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ANALYTICAL RESULTS

Project: CHEROKEE LINED
Pace Project No.: 9264068

Sample: MW-5 **Lab ID: 9264068005** Collected: 02/24/10 13:00 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	2.6	1	03/04/10 13:49	03/11/10 18:06	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	03/04/10 13:49	03/11/10 18:06	7440-38-2	
Barium	**10.2J**	ug/L	100	0.20	1	03/04/10 13:49	03/11/10 18:06	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	03/04/10 13:49	03/11/10 18:06	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	03/04/10 13:49	03/11/10 18:06	7440-43-9	
Chromium	ND	ug/L	10.0	0.40	1	03/04/10 13:49	03/11/10 18:06	7440-47-3	
Cobalt	**4.3J**	ug/L	10.0	0.60	1	03/04/10 13:49	03/11/10 18:06	7440-48-4	
Copper	**4.1J**	ug/L	10.0	0.30	1	03/04/10 13:49	03/11/10 18:06	7440-50-8	
Lead	ND	ug/L	10.0	4.0	1	03/04/10 13:49	03/11/10 18:06	7439-92-1	
Nickel	**14.7J**	ug/L	50.0	1.7	1	03/04/10 13:49	03/11/10 18:06	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	03/04/10 13:49	03/11/10 18:06	7782-49-2	
Silver	**0.36J**	ug/L	10.0	0.10	1	03/04/10 13:49	03/11/10 18:06	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	03/04/10 13:49	03/11/10 18:06	7440-28-0	
Vanadium	ND	ug/L	25.0	0.20	1	03/04/10 13:49	03/11/10 18:06	7440-62-2	
Zinc	**22.4**	ug/L	10.0	0.40	1	03/04/10 13:49	03/11/10 18:06	7440-66-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		03/01/10 03:10	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		03/01/10 03:10	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		03/01/10 03:10	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		03/01/10 03:10	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		03/01/10 03:10	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		03/01/10 03:10	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		03/01/10 03:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		03/01/10 03:10	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		03/01/10 03:10	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		03/01/10 03:10	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		03/01/10 03:10	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		03/01/10 03:10	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		03/01/10 03:10	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		03/01/10 03:10	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		03/01/10 03:10	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		03/01/10 03:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		03/01/10 03:10	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		03/01/10 03:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		03/01/10 03:10	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		03/01/10 03:10	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		03/01/10 03:10	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		03/01/10 03:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		03/01/10 03:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		03/01/10 03:10	75-35-4	
cis-1,2-Dichloroethene	**0.55J**	ug/L	5.0	0.19	1		03/01/10 03:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		03/01/10 03:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		03/01/10 03:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		03/01/10 03:10	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		03/01/10 03:10	10061-01-5	

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ANALYTICAL RESULTS

Project: CHEROKEE LINED
Pace Project No.: 9264068

Sample: MW-5 **Lab ID: 9264068005** Collected: 02/24/10 13:00 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		03/01/10 03:10	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/01/10 03:10	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		03/01/10 03:10	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		03/01/10 03:10	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		03/01/10 03:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		03/01/10 03:10	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		03/01/10 03:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		03/01/10 03:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		03/01/10 03:10	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		03/01/10 03:10	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		03/01/10 03:10	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		03/01/10 03:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		03/01/10 03:10	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		03/01/10 03:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		03/01/10 03:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		03/01/10 03:10	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		03/01/10 03:10	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		03/01/10 03:10	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		03/01/10 03:10	1330-20-7	
4-Bromofluorobenzene (S)	97	%	87-109		1		03/01/10 03:10	460-00-4	
Dibromofluoromethane (S)	106	%	85-115		1		03/01/10 03:10	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	79-120		1		03/01/10 03:10	17060-07-0	
Toluene-d8 (S)	102	%	70-120		1		03/01/10 03:10	2037-26-5	

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ANALYTICAL RESULTS

Project: CHEROKEE LINED
Pace Project No.: 9264068

Sample: MW-6S **Lab ID: 9264068006** Collected: 02/24/10 16:10 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3535								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.61	0.61	1	03/03/10 14:00	03/06/10 09:03	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.61	0.61	1	03/03/10 14:00	03/06/10 09:03	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.61	0.61	1	03/03/10 14:00	03/06/10 09:03	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.61	0.61	1	03/03/10 14:00	03/06/10 09:03	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.61	0.61	1	03/03/10 14:00	03/06/10 09:03	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.61	0.61	1	03/03/10 14:00	03/06/10 09:03	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.61	0.61	1	03/03/10 14:00	03/06/10 09:03	11096-82-5	
Decachlorobiphenyl (S)	78	%	10-132		1	03/03/10 14:00	03/06/10 09:03	2051-24-3	
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	2.6	1	03/04/10 13:49	03/11/10 18:19	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	03/04/10 13:49	03/11/10 18:19	7440-38-2	
Barium	**231**	ug/L	100	0.20	1	03/04/10 13:49	03/11/10 18:19	7440-39-3	
Beryllium	**0.31J**	ug/L	1.0	0.10	1	03/04/10 13:49	03/11/10 18:19	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	03/04/10 13:49	03/11/10 18:19	7440-43-9	
Chromium	**0.81J**	ug/L	10.0	0.40	1	03/04/10 13:49	03/11/10 18:19	7440-47-3	
Cobalt	**39.8**	ug/L	10.0	0.60	1	03/04/10 13:49	03/11/10 18:19	7440-48-4	
Copper	**0.48J**	ug/L	10.0	0.30	1	03/04/10 13:49	03/11/10 18:19	7440-50-8	
Lead	ND	ug/L	10.0	4.0	1	03/04/10 13:49	03/11/10 18:19	7439-92-1	
Nickel	**17.8J**	ug/L	50.0	1.7	1	03/04/10 13:49	03/11/10 18:19	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	03/04/10 13:49	03/11/10 18:19	7782-49-2	
Silver	**2.3J**	ug/L	10.0	0.10	1	03/04/10 13:49	03/11/10 18:19	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	03/04/10 13:49	03/11/10 18:19	7440-28-0	
Tin	**2.7J**	ug/L	100	1.8	1	03/04/10 13:49	03/11/10 18:19	7440-31-5	
Vanadium	ND	ug/L	25.0	0.20	1	03/04/10 13:49	03/11/10 18:19	7440-62-2	
Zinc	**39.1**	ug/L	10.0	0.40	1	03/04/10 13:49	03/11/10 18:19	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.14J**	ug/L	0.20	0.070	1	03/01/10 12:30	03/04/10 15:09	7439-97-6	Z2
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		03/01/10 03:34	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		03/01/10 03:34	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		03/01/10 03:34	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		03/01/10 03:34	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		03/01/10 03:34	107-05-1	
Benzene	**2.5**	ug/L	1.0	0.25	1		03/01/10 03:34	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		03/01/10 03:34	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		03/01/10 03:34	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		03/01/10 03:34	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		03/01/10 03:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		03/01/10 03:34	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		03/01/10 03:34	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		03/01/10 03:34	56-23-5	
Chlorobenzene	**2.9J**	ug/L	3.0	0.23	1		03/01/10 03:34	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		03/01/10 03:34	75-00-3	

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ANALYTICAL RESULTS

Project: CHEROKEE LINED
Pace Project No.: 9264068

Sample: MW-6S **Lab ID: 9264068006** Collected: 02/24/10 16:10 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Chloroform	ND	ug/L	5.0	0.14	1		03/01/10 03:34	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		03/01/10 03:34	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		03/01/10 03:34	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		03/01/10 03:34	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		03/01/10 03:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		03/01/10 03:34	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		03/01/10 03:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		03/01/10 03:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		03/01/10 03:34	541-73-1	
1,4-Dichlorobenzene	**18.7**	ug/L	1.0	0.33	1		03/01/10 03:34	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		03/01/10 03:34	110-57-6	
Dichlorodifluoromethane	**0.44J**	ug/L	5.0	0.21	1		03/01/10 03:34	75-71-8	
1,1-Dichloroethane	**0.36J**	ug/L	5.0	0.32	1		03/01/10 03:34	75-34-3	
1,2-Dichloroethane	**0.28J**	ug/L	1.0	0.12	1		03/01/10 03:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		03/01/10 03:34	75-35-4	
cis-1,2-Dichloroethene	**13.3**	ug/L	5.0	0.19	1		03/01/10 03:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		03/01/10 03:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		03/01/10 03:34	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		03/01/10 03:34	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		03/01/10 03:34	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		03/01/10 03:34	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		03/01/10 03:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		03/01/10 03:34	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/01/10 03:34	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		03/01/10 03:34	97-63-2	
2-Hexanone	ND	ug/L	50.0	0.46	1		03/01/10 03:34	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		03/01/10 03:34	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		03/01/10 03:34	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		03/01/10 03:34	126-98-7	
Methylene Chloride	ND	ug/L	2.0	0.97	1		03/01/10 03:34	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		03/01/10 03:34	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		03/01/10 03:34	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		03/01/10 03:34	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		03/01/10 03:34	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		03/01/10 03:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		03/01/10 03:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		03/01/10 03:34	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		03/01/10 03:34	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		03/01/10 03:34	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		03/01/10 03:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		03/01/10 03:34	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		03/01/10 03:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		03/01/10 03:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		03/01/10 03:34	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		03/01/10 03:34	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		03/01/10 03:34	75-01-4	

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ANALYTICAL RESULTS

Project: CHEROKEE LINED
Pace Project No.: 9264068

Sample: MW-6S **Lab ID: 9264068006** Collected: 02/24/10 16:10 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Xylene (Total)	**0.75J**	ug/L	2.0	0.66	1		03/01/10 03:34	1330-20-7	
4-Bromofluorobenzene (S)	99	%	87-109		1		03/01/10 03:34	460-00-4	
Dibromofluoromethane (S)	105	%	85-115		1		03/01/10 03:34	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	79-120		1		03/01/10 03:34	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		03/01/10 03:34	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		03/03/10 17:30		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**13000**	ug/L	5000	5000	1		02/27/10 14:17	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	ug/L	10.0	5.0	1		03/07/10 11:39	57-12-5	

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ANALYTICAL RESULTS

Project: CHEROKEE LINED
Pace Project No.: 9264068

Sample: MW-6D **Lab ID: 9264068007** Collected: 02/24/10 15:10 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3535								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.59	0.59	1	03/03/10 14:00	03/06/10 09:25	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.59	0.59	1	03/03/10 14:00	03/06/10 09:25	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.59	0.59	1	03/03/10 14:00	03/06/10 09:25	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.59	0.59	1	03/03/10 14:00	03/06/10 09:25	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.59	0.59	1	03/03/10 14:00	03/06/10 09:25	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.59	0.59	1	03/03/10 14:00	03/06/10 09:25	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.59	0.59	1	03/03/10 14:00	03/06/10 09:25	11096-82-5	
Decachlorobiphenyl (S)	69	%	10-132		1	03/03/10 14:00	03/06/10 09:25	2051-24-3	
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	2.6	1	03/04/10 13:49	03/11/10 18:23	7440-36-0	
Arsenic	**3.5J**	ug/L	10.0	2.7	1	03/04/10 13:49	03/11/10 18:23	7440-38-2	
Barium	**13.0J**	ug/L	100	0.20	1	03/04/10 13:49	03/11/10 18:23	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	03/04/10 13:49	03/11/10 18:23	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	03/04/10 13:49	03/11/10 18:23	7440-43-9	
Chromium	**0.74J**	ug/L	10.0	0.40	1	03/04/10 13:49	03/11/10 18:23	7440-47-3	
Cobalt	ND	ug/L	10.0	0.60	1	03/04/10 13:49	03/11/10 18:23	7440-48-4	
Copper	ND	ug/L	10.0	0.30	1	03/04/10 13:49	03/11/10 18:23	7440-50-8	
Lead	ND	ug/L	10.0	4.0	1	03/04/10 13:49	03/11/10 18:23	7439-92-1	
Nickel	ND	ug/L	50.0	1.7	1	03/04/10 13:49	03/11/10 18:23	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	03/04/10 13:49	03/11/10 18:23	7782-49-2	
Silver	**3.8J**	ug/L	10.0	0.10	1	03/04/10 13:49	03/11/10 18:23	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	03/04/10 13:49	03/11/10 18:23	7440-28-0	
Tin	ND	ug/L	100	1.8	1	03/04/10 13:49	03/11/10 18:23	7440-31-5	
Vanadium	ND	ug/L	25.0	0.20	1	03/04/10 13:49	03/11/10 18:23	7440-62-2	
Zinc	**1.1J**	ug/L	10.0	0.40	1	03/04/10 13:49	03/11/10 18:23	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.070	1	03/01/10 12:30	03/04/10 15:11	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		03/01/10 03:57	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		03/01/10 03:57	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		03/01/10 03:57	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		03/01/10 03:57	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		03/01/10 03:57	107-05-1	
Benzene	**2.8**	ug/L	1.0	0.25	1		03/01/10 03:57	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		03/01/10 03:57	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		03/01/10 03:57	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		03/01/10 03:57	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		03/01/10 03:57	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		03/01/10 03:57	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		03/01/10 03:57	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		03/01/10 03:57	56-23-5	
Chlorobenzene	**2.3J**	ug/L	3.0	0.23	1		03/01/10 03:57	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		03/01/10 03:57	75-00-3	

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ANALYTICAL RESULTS

Project: CHEROKEE LINED
Pace Project No.: 9264068

Sample: MW-6D **Lab ID: 9264068007** Collected: 02/24/10 15:10 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Chloroform	ND	ug/L	5.0	0.14	1		03/01/10 03:57	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		03/01/10 03:57	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		03/01/10 03:57	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		03/01/10 03:57	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		03/01/10 03:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		03/01/10 03:57	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		03/01/10 03:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		03/01/10 03:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		03/01/10 03:57	541-73-1	
1,4-Dichlorobenzene	**7.3**	ug/L	1.0	0.33	1		03/01/10 03:57	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		03/01/10 03:57	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		03/01/10 03:57	75-71-8	
1,1-Dichloroethane	**1.1J**	ug/L	5.0	0.32	1		03/01/10 03:57	75-34-3	
1,2-Dichloroethane	**0.30J**	ug/L	1.0	0.12	1		03/01/10 03:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		03/01/10 03:57	75-35-4	
cis-1,2-Dichloroethene	**14.9**	ug/L	5.0	0.19	1		03/01/10 03:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		03/01/10 03:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		03/01/10 03:57	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		03/01/10 03:57	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		03/01/10 03:57	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		03/01/10 03:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		03/01/10 03:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		03/01/10 03:57	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/01/10 03:57	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		03/01/10 03:57	97-63-2	
2-Hexanone	ND	ug/L	50.0	0.46	1		03/01/10 03:57	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		03/01/10 03:57	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		03/01/10 03:57	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		03/01/10 03:57	126-98-7	
Methylene Chloride	ND	ug/L	2.0	0.97	1		03/01/10 03:57	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		03/01/10 03:57	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		03/01/10 03:57	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		03/01/10 03:57	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		03/01/10 03:57	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		03/01/10 03:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		03/01/10 03:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		03/01/10 03:57	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		03/01/10 03:57	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		03/01/10 03:57	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		03/01/10 03:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		03/01/10 03:57	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		03/01/10 03:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		03/01/10 03:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		03/01/10 03:57	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		03/01/10 03:57	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		03/01/10 03:57	75-01-4	

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ANALYTICAL RESULTS

Project: CHEROKEE LINED
Pace Project No.: 9264068

Sample: MW-6D **Lab ID: 9264068007** Collected: 02/24/10 15:10 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Xylene (Total)	ND	ug/L	2.0	0.66	1		03/01/10 03:57	1330-20-7	
4-Bromofluorobenzene (S)	98	%	87-109		1		03/01/10 03:57	460-00-4	
Dibromofluoromethane (S)	109	%	85-115		1		03/01/10 03:57	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	79-120		1		03/01/10 03:57	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		03/01/10 03:57	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		03/03/10 17:30		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	ND	ug/L	5000	5000	1		02/27/10 14:17	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	ug/L	10.0	5.0	1		03/05/10 09:54	57-12-5	

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ANALYTICAL RESULTS

Project: CHEROKEE LINED
Pace Project No.: 9264068

Sample: MW-7 **Lab ID: 9264068008** Collected: 02/24/10 14:20 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3535								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.62	0.62	1	03/03/10 14:00	03/06/10 09:47	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.62	0.62	1	03/03/10 14:00	03/06/10 09:47	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.62	0.62	1	03/03/10 14:00	03/06/10 09:47	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.62	0.62	1	03/03/10 14:00	03/06/10 09:47	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.62	0.62	1	03/03/10 14:00	03/06/10 09:47	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.62	0.62	1	03/03/10 14:00	03/06/10 09:47	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.62	0.62	1	03/03/10 14:00	03/06/10 09:47	11096-82-5	
Decachlorobiphenyl (S)	57	%	10-132		1	03/03/10 14:00	03/06/10 09:47	2051-24-3	
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	2.6	1	03/04/10 13:49	03/11/10 18:26	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	03/04/10 13:49	03/11/10 18:26	7440-38-2	
Barium	**28.9J**	ug/L	100	0.20	1	03/04/10 13:49	03/11/10 18:26	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	03/04/10 13:49	03/11/10 18:26	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	03/04/10 13:49	03/11/10 18:26	7440-43-9	
Chromium	**0.75J**	ug/L	10.0	0.40	1	03/04/10 13:49	03/11/10 18:26	7440-47-3	
Cobalt	**52.9**	ug/L	10.0	0.60	1	03/04/10 13:49	03/11/10 18:26	7440-48-4	
Copper	ND	ug/L	10.0	0.30	1	03/04/10 13:49	03/11/10 18:26	7440-50-8	
Lead	ND	ug/L	10.0	4.0	1	03/04/10 13:49	03/11/10 18:26	7439-92-1	
Nickel	ND	ug/L	50.0	1.7	1	03/04/10 13:49	03/11/10 18:26	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	03/04/10 13:49	03/11/10 18:26	7782-49-2	
Silver	**1.5J**	ug/L	10.0	0.10	1	03/04/10 13:49	03/11/10 18:26	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	03/04/10 13:49	03/11/10 18:26	7440-28-0	
Tin	ND	ug/L	100	1.8	1	03/04/10 13:49	03/11/10 18:26	7440-31-5	
Vanadium	**0.51J**	ug/L	25.0	0.20	1	03/04/10 13:49	03/11/10 18:26	7440-62-2	
Zinc	**34.8**	ug/L	10.0	0.40	1	03/04/10 13:49	03/11/10 18:26	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.12J**	ug/L	0.20	0.070	1	03/01/10 12:30	03/04/10 15:14	7439-97-6	Z2
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		03/01/10 04:21	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		03/01/10 04:21	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		03/01/10 04:21	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		03/01/10 04:21	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		03/01/10 04:21	107-05-1	
Benzene	**4.5**	ug/L	1.0	0.25	1		03/01/10 04:21	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		03/01/10 04:21	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		03/01/10 04:21	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		03/01/10 04:21	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		03/01/10 04:21	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		03/01/10 04:21	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		03/01/10 04:21	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		03/01/10 04:21	56-23-5	
Chlorobenzene	**0.37J**	ug/L	3.0	0.23	1		03/01/10 04:21	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		03/01/10 04:21	75-00-3	

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ANALYTICAL RESULTS

Project: CHEROKEE LINED
Pace Project No.: 9264068

Sample: MW-7 **Lab ID: 9264068008** Collected: 02/24/10 14:20 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Chloroform	ND	ug/L	5.0	0.14	1		03/01/10 04:21	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		03/01/10 04:21	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		03/01/10 04:21	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		03/01/10 04:21	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		03/01/10 04:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		03/01/10 04:21	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		03/01/10 04:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		03/01/10 04:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		03/01/10 04:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		03/01/10 04:21	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		03/01/10 04:21	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		03/01/10 04:21	75-71-8	
1,1-Dichloroethane	**0.65J**	ug/L	5.0	0.32	1		03/01/10 04:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		03/01/10 04:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		03/01/10 04:21	75-35-4	
cis-1,2-Dichloroethene	**36.5**	ug/L	5.0	0.19	1		03/01/10 04:21	156-59-2	
trans-1,2-Dichloroethene	**0.54J**	ug/L	5.0	0.49	1		03/01/10 04:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		03/01/10 04:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		03/01/10 04:21	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		03/01/10 04:21	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		03/01/10 04:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		03/01/10 04:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		03/01/10 04:21	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/01/10 04:21	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		03/01/10 04:21	97-63-2	
2-Hexanone	ND	ug/L	50.0	0.46	1		03/01/10 04:21	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		03/01/10 04:21	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		03/01/10 04:21	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		03/01/10 04:21	126-98-7	
Methylene Chloride	ND	ug/L	2.0	0.97	1		03/01/10 04:21	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		03/01/10 04:21	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		03/01/10 04:21	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		03/01/10 04:21	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		03/01/10 04:21	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		03/01/10 04:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		03/01/10 04:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		03/01/10 04:21	79-34-5	
Tetrachloroethene	**0.88J**	ug/L	1.0	0.46	1		03/01/10 04:21	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		03/01/10 04:21	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		03/01/10 04:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		03/01/10 04:21	79-00-5	
Trichloroethene	**0.88J**	ug/L	1.0	0.47	1		03/01/10 04:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		03/01/10 04:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		03/01/10 04:21	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		03/01/10 04:21	108-05-4	
Vinyl chloride	**1.6**	ug/L	1.0	0.62	1		03/01/10 04:21	75-01-4	

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ANALYTICAL RESULTS

Project: CHEROKEE LINED
Pace Project No.: 9264068

Sample: MW-7 **Lab ID: 9264068008** Collected: 02/24/10 14:20 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Xylene (Total)	**1.1J**	ug/L	2.0	0.66	1		03/01/10 04:21	1330-20-7	
4-Bromofluorobenzene (S)	99	%	87-109		1		03/01/10 04:21	460-00-4	
Dibromofluoromethane (S)	106	%	85-115		1		03/01/10 04:21	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	79-120		1		03/01/10 04:21	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		03/01/10 04:21	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		03/03/10 17:30		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	**22900**	ug/L	5000	5000	1		03/06/10 12:51	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	ug/L	10.0	5.0	1		03/05/10 09:56	57-12-5	

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ANALYTICAL RESULTS

Project: CHEROKEE LINED
Pace Project No.: 9264068

Sample: MW-8 **Lab ID: 9264068009** Collected: 02/24/10 13:30 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB	Analytical Method: EPA 8082 Preparation Method: EPA 3535								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.60	0.60	1	03/03/10 14:00	03/06/10 10:09	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	0.60	0.60	1	03/03/10 14:00	03/06/10 10:09	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.60	0.60	1	03/03/10 14:00	03/06/10 10:09	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.60	0.60	1	03/03/10 14:00	03/06/10 10:09	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.60	0.60	1	03/03/10 14:00	03/06/10 10:09	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.60	0.60	1	03/03/10 14:00	03/06/10 10:09	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.60	0.60	1	03/03/10 14:00	03/06/10 10:09	11096-82-5	
Decachlorobiphenyl (S)	79	%	10-132		1	03/03/10 14:00	03/06/10 10:09	2051-24-3	
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	2.6	1	03/04/10 13:49	03/11/10 18:30	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	03/04/10 13:49	03/11/10 18:30	7440-38-2	
Barium	**2.6J**	ug/L	100	0.20	1	03/04/10 13:49	03/11/10 18:30	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	03/04/10 13:49	03/11/10 18:30	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	03/04/10 13:49	03/11/10 18:30	7440-43-9	
Chromium	**0.61J**	ug/L	10.0	0.40	1	03/04/10 13:49	03/11/10 18:30	7440-47-3	
Cobalt	ND	ug/L	10.0	0.60	1	03/04/10 13:49	03/11/10 18:30	7440-48-4	
Copper	**0.82J**	ug/L	10.0	0.30	1	03/04/10 13:49	03/11/10 18:30	7440-50-8	
Lead	ND	ug/L	10.0	4.0	1	03/04/10 13:49	03/11/10 18:30	7439-92-1	
Nickel	ND	ug/L	50.0	1.7	1	03/04/10 13:49	03/11/10 18:30	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	03/04/10 13:49	03/11/10 18:30	7782-49-2	
Silver	**0.10J**	ug/L	10.0	0.10	1	03/04/10 13:49	03/11/10 18:30	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	03/04/10 13:49	03/11/10 18:30	7440-28-0	
Tin	ND	ug/L	100	1.8	1	03/04/10 13:49	03/11/10 18:30	7440-31-5	
Vanadium	**0.70J**	ug/L	25.0	0.20	1	03/04/10 13:49	03/11/10 18:30	7440-62-2	
Zinc	**5.5J**	ug/L	10.0	0.40	1	03/04/10 13:49	03/11/10 18:30	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	**0.086J**	ug/L	0.20	0.070	1	03/01/10 12:30	03/04/10 15:16	7439-97-6	Z2
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		03/01/10 04:45	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		03/01/10 04:45	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		03/01/10 04:45	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		03/01/10 04:45	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		03/01/10 04:45	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		03/01/10 04:45	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		03/01/10 04:45	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		03/01/10 04:45	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		03/01/10 04:45	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		03/01/10 04:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		03/01/10 04:45	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		03/01/10 04:45	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		03/01/10 04:45	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		03/01/10 04:45	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		03/01/10 04:45	75-00-3	

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ANALYTICAL RESULTS

Project: CHEROKEE LINED
Pace Project No.: 9264068

Sample: MW-8 **Lab ID: 9264068009** Collected: 02/24/10 13:30 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Chloroform	ND	ug/L	5.0	0.14	1		03/01/10 04:45	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		03/01/10 04:45	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		03/01/10 04:45	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		03/01/10 04:45	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		03/01/10 04:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		03/01/10 04:45	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		03/01/10 04:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		03/01/10 04:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		03/01/10 04:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		03/01/10 04:45	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		03/01/10 04:45	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		03/01/10 04:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		03/01/10 04:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		03/01/10 04:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		03/01/10 04:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		03/01/10 04:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		03/01/10 04:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		03/01/10 04:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		03/01/10 04:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		03/01/10 04:45	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		03/01/10 04:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		03/01/10 04:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		03/01/10 04:45	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/01/10 04:45	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		03/01/10 04:45	97-63-2	
2-Hexanone	ND	ug/L	50.0	0.46	1		03/01/10 04:45	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		03/01/10 04:45	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		03/01/10 04:45	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		03/01/10 04:45	126-98-7	
Methylene Chloride	ND	ug/L	2.0	0.97	1		03/01/10 04:45	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		03/01/10 04:45	80-62-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		03/01/10 04:45	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		03/01/10 04:45	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		03/01/10 04:45	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		03/01/10 04:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		03/01/10 04:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		03/01/10 04:45	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		03/01/10 04:45	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		03/01/10 04:45	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		03/01/10 04:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		03/01/10 04:45	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		03/01/10 04:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		03/01/10 04:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		03/01/10 04:45	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		03/01/10 04:45	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		03/01/10 04:45	75-01-4	

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ANALYTICAL RESULTS

Project: CHEROKEE LINED
Pace Project No.: 9264068

Sample: MW-8 **Lab ID: 9264068009** Collected: 02/24/10 13:30 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Xylene (Total)	ND	ug/L	2.0	0.66	1		03/01/10 04:45	1330-20-7	
4-Bromofluorobenzene (S)	97	%	87-109		1		03/01/10 04:45	460-00-4	
Dibromofluoromethane (S)	108	%	85-115		1		03/01/10 04:45	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	79-120		1		03/01/10 04:45	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		03/01/10 04:45	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D								
Sulfide	ND	ug/L	1000	100	1		03/03/10 17:30		
4500 Chloride	Analytical Method: SM 4500-Cl-E								
Chloride	ND	ug/L	5000	5000	1		03/06/10 12:52	16887-00-6	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	ug/L	10.0	5.0	1		03/05/10 09:56	57-12-5	

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ANALYTICAL RESULTS

Project: CHEROKEE LINED
Pace Project No.: 9264068

Sample: MW-9 **Lab ID: 9264068010** Collected: 02/23/10 17:00 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	2.6	1	03/04/10 13:49	03/11/10 18:33	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	03/04/10 13:49	03/11/10 18:33	7440-38-2	
Barium	**13.3J**	ug/L	100	0.20	1	03/04/10 13:49	03/11/10 18:33	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	03/04/10 13:49	03/11/10 18:33	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	03/04/10 13:49	03/11/10 18:33	7440-43-9	
Chromium	**1.1J**	ug/L	10.0	0.40	1	03/04/10 13:49	03/11/10 18:33	7440-47-3	
Cobalt	**0.74J**	ug/L	10.0	0.60	1	03/04/10 13:49	03/11/10 18:33	7440-48-4	
Copper	**0.70J**	ug/L	10.0	0.30	1	03/04/10 13:49	03/11/10 18:33	7440-50-8	
Lead	ND	ug/L	10.0	4.0	1	03/04/10 13:49	03/11/10 18:33	7439-92-1	
Nickel	ND	ug/L	50.0	1.7	1	03/04/10 13:49	03/11/10 18:33	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	03/04/10 13:49	03/11/10 18:33	7782-49-2	
Silver	ND	ug/L	10.0	0.10	1	03/04/10 13:49	03/11/10 18:33	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	03/04/10 13:49	03/11/10 18:33	7440-28-0	
Vanadium	**0.53J**	ug/L	25.0	0.20	1	03/04/10 13:49	03/11/10 18:33	7440-62-2	
Zinc	**9.8J**	ug/L	10.0	0.40	1	03/04/10 13:49	03/11/10 18:33	7440-66-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		03/01/10 01:34	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		03/01/10 01:34	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		03/01/10 01:34	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		03/01/10 01:34	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		03/01/10 01:34	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		03/01/10 01:34	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		03/01/10 01:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		03/01/10 01:34	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		03/01/10 01:34	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		03/01/10 01:34	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		03/01/10 01:34	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		03/01/10 01:34	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		03/01/10 01:34	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		03/01/10 01:34	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		03/01/10 01:34	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		03/01/10 01:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		03/01/10 01:34	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		03/01/10 01:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		03/01/10 01:34	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		03/01/10 01:34	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		03/01/10 01:34	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		03/01/10 01:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		03/01/10 01:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		03/01/10 01:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		03/01/10 01:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		03/01/10 01:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		03/01/10 01:34	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		03/01/10 01:34	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		03/01/10 01:34	10061-01-5	

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ANALYTICAL RESULTS

Project: CHEROKEE LINED
Pace Project No.: 9264068

Sample: MW-9 **Lab ID: 9264068010** Collected: 02/23/10 17:00 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		03/01/10 01:34	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/01/10 01:34	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		03/01/10 01:34	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		03/01/10 01:34	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		03/01/10 01:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		03/01/10 01:34	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		03/01/10 01:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		03/01/10 01:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		03/01/10 01:34	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		03/01/10 01:34	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		03/01/10 01:34	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		03/01/10 01:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		03/01/10 01:34	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		03/01/10 01:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		03/01/10 01:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		03/01/10 01:34	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		03/01/10 01:34	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		03/01/10 01:34	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		03/01/10 01:34	1330-20-7	
4-Bromofluorobenzene (S)	99	%	87-109		1		03/01/10 01:34	460-00-4	
Dibromofluoromethane (S)	107	%	85-115		1		03/01/10 01:34	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	79-120		1		03/01/10 01:34	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		03/01/10 01:34	2037-26-5	

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ANALYTICAL RESULTS

Project: CHEROKEE LINED
Pace Project No.: 9264068

Sample: P-18 **Lab ID: 9264068011** Collected: 02/24/10 12:30 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		03/01/10 05:09	67-64-1	
Acetonitrile	ND	ug/L	55.0	2.2	1		03/01/10 05:09	75-05-8	
Acrolein	ND	ug/L	53.0	1.6	1		03/01/10 05:09	107-02-8	
Acrylonitrile	ND	ug/L	200	1.9	1		03/01/10 05:09	107-13-1	
Allyl chloride	ND	ug/L	10.0	1.5	1		03/01/10 05:09	107-05-1	
Benzene	ND	ug/L	1.0	0.25	1		03/01/10 05:09	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		03/01/10 05:09	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		03/01/10 05:09	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		03/01/10 05:09	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		03/01/10 05:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		03/01/10 05:09	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		03/01/10 05:09	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		03/01/10 05:09	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		03/01/10 05:09	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		03/01/10 05:09	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		03/01/10 05:09	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		03/01/10 05:09	74-87-3	
Chloroprene	ND	ug/L	20.0	0.27	1		03/01/10 05:09	126-99-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		03/01/10 05:09	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		03/01/10 05:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		03/01/10 05:09	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		03/01/10 05:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		03/01/10 05:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.24	1		03/01/10 05:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		03/01/10 05:09	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		03/01/10 05:09	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	0.21	1		03/01/10 05:09	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		03/01/10 05:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		03/01/10 05:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		03/01/10 05:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		03/01/10 05:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		03/01/10 05:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		03/01/10 05:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		03/01/10 05:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	15.0	0.13	1		03/01/10 05:09	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.49	1		03/01/10 05:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		03/01/10 05:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		03/01/10 05:09	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/01/10 05:09	100-41-4	
Ethyl methacrylate	ND	ug/L	10.0	0.20	1		03/01/10 05:09	97-63-2	
2-Hexanone	ND	ug/L	50.0	0.46	1		03/01/10 05:09	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		03/01/10 05:09	74-88-4	
Isobutanol	ND	ug/L	100	35.0	1		03/01/10 05:09	78-83-1	
Methacrylonitrile	ND	ug/L	100	0.93	1		03/01/10 05:09	126-98-7	
Methylene Chloride	ND	ug/L	2.0	0.97	1		03/01/10 05:09	75-09-2	
Methyl methacrylate	ND	ug/L	30.0	2.0	1		03/01/10 05:09	80-62-6	

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ANALYTICAL RESULTS

Project: CHEROKEE LINED
Pace Project No.: 9264068

Sample: P-18 **Lab ID: 9264068011** Collected: 02/24/10 12:30 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		03/01/10 05:09	108-10-1	
Naphthalene	ND	ug/L	10.0	0.24	1		03/01/10 05:09	91-20-3	
Propionitrile	ND	ug/L	150	3.6	1		03/01/10 05:09	107-12-0	
Styrene	ND	ug/L	1.0	0.26	1		03/01/10 05:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		03/01/10 05:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		03/01/10 05:09	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		03/01/10 05:09	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		03/01/10 05:09	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		03/01/10 05:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		03/01/10 05:09	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		03/01/10 05:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		03/01/10 05:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		03/01/10 05:09	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		03/01/10 05:09	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		03/01/10 05:09	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		03/01/10 05:09	1330-20-7	
4-Bromofluorobenzene (S)	99	%	87-109		1		03/01/10 05:09	460-00-4	
Dibromofluoromethane (S)	107	%	85-115		1		03/01/10 05:09	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	79-120		1		03/01/10 05:09	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		03/01/10 05:09	2037-26-5	

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ANALYTICAL RESULTS

Project: CHEROKEE LINED
Pace Project No.: 9264068

Sample: LAGOON **Lab ID: 9264068012** Collected: 02/24/10 16:00 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	2.6	1	03/04/10 13:49	03/11/10 18:36	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	03/04/10 13:49	03/11/10 18:36	7440-38-2	
Barium	**357**	ug/L	100	0.20	1	03/04/10 13:49	03/11/10 18:36	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	03/04/10 13:49	03/11/10 18:36	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	03/04/10 13:49	03/11/10 18:36	7440-43-9	
Chromium	**1.4J**	ug/L	10.0	0.40	1	03/04/10 13:49	03/11/10 18:36	7440-47-3	
Cobalt	**0.86J**	ug/L	10.0	0.60	1	03/04/10 13:49	03/11/10 18:36	7440-48-4	
Copper	ND	ug/L	10.0	0.30	1	03/04/10 13:49	03/11/10 18:36	7440-50-8	
Lead	ND	ug/L	10.0	4.0	1	03/04/10 13:49	03/11/10 18:36	7439-92-1	
Nickel	**4.8J**	ug/L	50.0	1.7	1	03/04/10 13:49	03/11/10 18:36	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	03/04/10 13:49	03/11/10 18:36	7782-49-2	
Silver	**0.53J**	ug/L	10.0	0.10	1	03/04/10 13:49	03/11/10 18:36	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	03/04/10 13:49	03/11/10 18:36	7440-28-0	
Tin	**4.6J**	ug/L	100	1.8	1	03/04/10 13:49	03/11/10 18:36	7440-31-5	
Vanadium	ND	ug/L	25.0	0.20	1	03/04/10 13:49	03/11/10 18:36	7440-62-2	
Zinc	**6.5J**	ug/L	10.0	0.40	1	03/04/10 13:49	03/11/10 18:36	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.070	1	03/01/10 12:30	03/04/10 15:25	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**5.9J**	ug/L	100	2.2	1		03/01/10 05:33	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		03/01/10 05:33	107-13-1	
Benzene	**5.5**	ug/L	1.0	0.25	1		03/01/10 05:33	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		03/01/10 05:33	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		03/01/10 05:33	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		03/01/10 05:33	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		03/01/10 05:33	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		03/01/10 05:33	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		03/01/10 05:33	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		03/01/10 05:33	56-23-5	
Chlorobenzene	**5.7**	ug/L	3.0	0.23	1		03/01/10 05:33	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		03/01/10 05:33	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		03/01/10 05:33	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		03/01/10 05:33	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		03/01/10 05:33	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		03/01/10 05:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		03/01/10 05:33	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		03/01/10 05:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		03/01/10 05:33	95-50-1	
1,4-Dichlorobenzene	**3.6**	ug/L	1.0	0.33	1		03/01/10 05:33	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		03/01/10 05:33	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		03/01/10 05:33	75-34-3	
1,2-Dichloroethane	**0.35J**	ug/L	1.0	0.12	1		03/01/10 05:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		03/01/10 05:33	75-35-4	
cis-1,2-Dichloroethene	**0.24J**	ug/L	5.0	0.19	1		03/01/10 05:33	156-59-2	

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ANALYTICAL RESULTS

Project: CHEROKEE LINED
Pace Project No.: 9264068

Sample: LAGOON **Lab ID: 9264068012** Collected: 02/24/10 16:00 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		03/01/10 05:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		03/01/10 05:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		03/01/10 05:33	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		03/01/10 05:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		03/01/10 05:33	10061-02-6	
Ethylbenzene	**6.6**	ug/L	1.0	0.30	1		03/01/10 05:33	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		03/01/10 05:33	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		03/01/10 05:33	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		03/01/10 05:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		03/01/10 05:33	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		03/01/10 05:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		03/01/10 05:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		03/01/10 05:33	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		03/01/10 05:33	127-18-4	
Toluene	**0.61J**	ug/L	1.0	0.26	1		03/01/10 05:33	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		03/01/10 05:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		03/01/10 05:33	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		03/01/10 05:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		03/01/10 05:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		03/01/10 05:33	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		03/01/10 05:33	108-05-4	
Vinyl chloride	**1.9**	ug/L	1.0	0.62	1		03/01/10 05:33	75-01-4	
Xylene (Total)	**5.7**	ug/L	2.0	0.66	1		03/01/10 05:33	1330-20-7	
4-Bromofluorobenzene (S)	99	%	87-109		1		03/01/10 05:33	460-00-4	
Dibromofluoromethane (S)	107	%	85-115		1		03/01/10 05:33	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	%	79-120		1		03/01/10 05:33	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		03/01/10 05:33	2037-26-5	
5210B BOD, 5 day	Analytical Method: SM 5210B								
BOD, 5 day	ND	ug/L	2000	2000	1	02/26/10 09:15	03/03/10 10:25		
9040 pH	Analytical Method: EPA 9040								
pH	**6.2**	Std. Units	0.10	0.10	1		03/08/10 18:15		H1,H6
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	ug/L	10000	100	1		02/26/10 11:30		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1								
Phosphorus	ND	ug/L	100	100	1		03/02/10 12:48	7723-14-0	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E								
Cyanide	ND	ug/L	10.0	5.0	1		03/05/10 09:58	57-12-5	
5220D COD	Analytical Method: SM 5220D								
Chemical Oxygen Demand	**81000**	ug/L	25000	25000	1		03/10/10 11:26		

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ANALYTICAL RESULTS

Project: CHEROKEE LINED
Pace Project No.: 9264068

Sample: LAGOON **Lab ID: 9264068012** Collected: 02/24/10 16:00 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
ASTM D516-90 Sulfate Water	Analytical Method: ASTM D516-90								
Sulfate	ND	ug/L	250000	5000	1		03/11/10 11:41	14808-79-8	

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QUALITY CONTROL DATA

Project: CHEROKEE LINED
Pace Project No.: 9264068

QC Batch: OEXT/9412 Analysis Method: EPA 8082
QC Batch Method: EPA 3535 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 9264068006, 9264068007, 9264068008, 9264068009

METHOD BLANK: 410151 Matrix: Water
Associated Lab Samples: 9264068006, 9264068007, 9264068008, 9264068009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	ND	0.50	03/06/10 07:13	
PCB-1221 (Aroclor 1221)	ug/L	ND	0.50	03/06/10 07:13	
PCB-1232 (Aroclor 1232)	ug/L	ND	0.50	03/06/10 07:13	
PCB-1242 (Aroclor 1242)	ug/L	ND	0.50	03/06/10 07:13	
PCB-1248 (Aroclor 1248)	ug/L	ND	0.50	03/06/10 07:13	
PCB-1254 (Aroclor 1254)	ug/L	ND	0.50	03/06/10 07:13	
PCB-1260 (Aroclor 1260)	ug/L	ND	0.50	03/06/10 07:13	
Decachlorobiphenyl (S)	%	78	10-132	03/06/10 07:13	

LABORATORY CONTROL SAMPLE & LCSD: 410152 410153

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	5	3.1	3.0	62	60	38-113	3	30	
PCB-1260 (Aroclor 1260)	ug/L	5	2.9	3.0	58	61	35-120	4	30	
Decachlorobiphenyl (S)	%				69	79	10-132			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 410154 410155

Parameter	Units	9264210001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/L	ND	10	10	6.4	5.9	64	59	19-142	8	30	
PCB-1260 (Aroclor 1260)	ug/L	ND	10	10	6.3	5.8	62	57	19-142	8	30	
Decachlorobiphenyl (S)	%						82	75	10-132			

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QUALITY CONTROL DATA

Project: CHEROKEE LINED
Pace Project No.: 9264068

QC Batch: MPRP/5913 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9264068001, 9264068002, 9264068003, 9264068004, 9264068005, 9264068006, 9264068007, 9264068008, 9264068009, 9264068010, 9264068012

METHOD BLANK: 410452 | Matrix: Water
Associated Lab Samples: 9264068001, 9264068002, 9264068003, 9264068004, 9264068005, 9264068006, 9264068007, 9264068008, 9264068009, 9264068010, 9264068012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	03/11/10 17:36	
Arsenic	ug/L	ND	10.0	03/11/10 17:36	
Barium	ug/L	ND	100	03/11/10 17:36	
Beryllium	ug/L	ND	1.0	03/11/10 17:36	
Cadmium	ug/L	ND	1.0	03/11/10 17:36	
Chromium	ug/L	ND	10.0	03/11/10 17:36	
Cobalt	ug/L	ND	10.0	03/11/10 17:36	
Copper	ug/L	ND	10.0	03/11/10 17:36	
Lead	ug/L	ND	10.0	03/11/10 17:36	
Nickel	ug/L	ND	50.0	03/11/10 17:36	
Selenium	ug/L	ND	10.0	03/11/10 17:36	
Silver	ug/L	ND	10.0	03/11/10 17:36	
Thallium	ug/L	ND	5.5	03/11/10 17:36	
Tin	ug/L	ND	100	03/11/10 17:36	
Vanadium	ug/L	ND	25.0	03/11/10 17:36	
Zinc	ug/L	2.9J	10.0	03/11/10 17:36	

LABORATORY CONTROL SAMPLE: 410453

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	493	99	80-120	
Arsenic	ug/L	500	473	95	80-120	
Barium	ug/L	500	486	97	80-120	
Beryllium	ug/L	500	499	100	80-120	
Cadmium	ug/L	500	483	97	80-120	
Chromium	ug/L	500	488	98	80-120	
Cobalt	ug/L	500	487	97	80-120	
Copper	ug/L	500	479	96	80-120	
Lead	ug/L	500	478	96	80-120	
Nickel	ug/L	500	487	97	80-120	
Selenium	ug/L	500	480	96	80-120	
Silver	ug/L	250	243	97	80-120	
Thallium	ug/L	500	460	92	80-120	
Tin	ug/L	500	495	99	80-120	
Vanadium	ug/L	500	483	97	80-120	
Zinc	ug/L	500	480	96	80-120	

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QUALITY CONTROL DATA

Project: CHEROKEE LINED
Pace Project No.: 9264068

MATRIX SPIKE SAMPLE: 410454

Parameter	Units	9264067012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	ND	500	496	99	75-125	
Arsenic	ug/L	ND	500	475	95	75-125	
Barium	ug/L	23.9J	500	509	97	75-125	
Beryllium	ug/L	0.17J	500	499	100	75-125	
Cadmium	ug/L	ND	500	483	97	75-125	
Chromium	ug/L	0.44J	500	490	98	75-125	
Cobalt	ug/L	ND	500	488	98	75-125	
Copper	ug/L	12.2	500	492	96	75-125	
Lead	ug/L	ND	500	478	95	75-125	
Nickel	ug/L	ND	500	488	97	75-125	
Selenium	ug/L	ND	500	479	96	75-125	
Silver	ug/L	ND	250	243	97	75-125	
Thallium	ug/L	ND	500	457	91	75-125	
Tin	ug/L	ND	500	494	99	75-125	
Vanadium	ug/L	0.27J	500	486	97	75-125	
Zinc	ug/L	13.6	500	492	96	75-125	

SAMPLE DUPLICATE: 410455

Parameter	Units	9264068001 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	ND	ND		25	
Arsenic	ug/L	5.1J	3.9J		25	
Barium	ug/L	123	113	8	25	
Beryllium	ug/L	2.2	2.0	8	25	
Cadmium	ug/L	ND	ND		25	
Chromium	ug/L	45.7	40.4	12	25	
Cobalt	ug/L	69.4	65.6	6	25	
Copper	ug/L	47.7	43.4	9	25	
Lead	ug/L	17.2	15.8	8	25	
Nickel	ug/L	59.7	55.2	8	25	
Selenium	ug/L	ND	ND		25	
Silver	ug/L	0.14J	0.12J		25	
Thallium	ug/L	ND	ND		25	
Tin	ug/L	8.8J	6.6J	29	25	R1
Vanadium	ug/L	33.9	30.2	12	25	
Zinc	ug/L	83.8	77.4	8	25	

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QUALITY CONTROL DATA

Project: CHEROKEE LINED
Pace Project No.: 9264068

QC Batch: MERP/2681 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 9264068001, 9264068006, 9264068007, 9264068008, 9264068009, 9264068012

METHOD BLANK: 408895 Matrix: Water
Associated Lab Samples: 9264068001, 9264068006, 9264068007, 9264068008, 9264068009, 9264068012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	0.088J	0.20	03/04/10 15:45	

LABORATORY CONTROL SAMPLE: 408896

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

MATRIX SPIKE SAMPLE: 408897

Parameter	Units	9264000003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	2.5	2.5	96	75-125	

SAMPLE DUPLICATE: 408898

Parameter	Units	9264000004 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	ug/L	ND	0.075J		25	

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QUALITY CONTROL DATA

Project: CHEROKEE LINED
Pace Project No.: 9264068

QC Batch: MSV/10115 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9264068001, 9264068002, 9264068003, 9264068004, 9264068005, 9264068006, 9264068007, 9264068008, 9264068009, 9264068010, 9264068011, 9264068012

METHOD BLANK: 408650 Matrix: Water
Associated Lab Samples: 9264068001, 9264068002, 9264068003, 9264068004, 9264068005, 9264068006, 9264068007, 9264068008, 9264068009, 9264068010, 9264068011, 9264068012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	02/28/10 22:38	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/28/10 22:38	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	02/28/10 22:38	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/28/10 22:38	
1,1-Dichloroethane	ug/L	ND	5.0	02/28/10 22:38	
1,1-Dichloroethene	ug/L	ND	5.0	02/28/10 22:38	
1,1-Dichloropropene	ug/L	ND	5.0	02/28/10 22:38	
1,2,3-Trichloropropane	ug/L	ND	1.0	02/28/10 22:38	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	02/28/10 22:38	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	02/28/10 22:38	
1,2-Dichlorobenzene	ug/L	ND	5.0	02/28/10 22:38	
1,2-Dichloroethane	ug/L	ND	1.0	02/28/10 22:38	
1,2-Dichloropropane	ug/L	ND	1.0	02/28/10 22:38	
1,3-Dichlorobenzene	ug/L	ND	5.0	02/28/10 22:38	
1,3-Dichloropropane	ug/L	ND	1.0	02/28/10 22:38	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/28/10 22:38	
2,2-Dichloropropane	ug/L	ND	15.0	02/28/10 22:38	
2-Butanone (MEK)	ug/L	ND	100	02/28/10 22:38	
2-Hexanone	ug/L	ND	50.0	02/28/10 22:38	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	02/28/10 22:38	
Acetone	ug/L	ND	100	02/28/10 22:38	
Acetonitrile	ug/L	ND	55.0	02/28/10 22:38	
Acrolein	ug/L	ND	53.0	02/28/10 22:38	
Acrylonitrile	ug/L	ND	200	02/28/10 22:38	
Allyl chloride	ug/L	ND	10.0	02/28/10 22:38	
Benzene	ug/L	ND	1.0	02/28/10 22:38	
Bromochloromethane	ug/L	ND	3.0	02/28/10 22:38	
Bromodichloromethane	ug/L	ND	1.0	02/28/10 22:38	
Bromoform	ug/L	ND	3.0	02/28/10 22:38	
Bromomethane	ug/L	ND	10.0	02/28/10 22:38	
Carbon disulfide	ug/L	ND	100	02/28/10 22:38	
Carbon tetrachloride	ug/L	ND	1.0	02/28/10 22:38	
Chlorobenzene	ug/L	ND	3.0	02/28/10 22:38	
Chloroethane	ug/L	ND	10.0	02/28/10 22:38	
Chloroform	ug/L	ND	5.0	02/28/10 22:38	
Chloromethane	ug/L	ND	1.0	02/28/10 22:38	
Chloroprene	ug/L	ND	20.0	02/28/10 22:38	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/28/10 22:38	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/28/10 22:38	
Dibromochloromethane	ug/L	ND	3.0	02/28/10 22:38	
Dibromomethane	ug/L	ND	10.0	02/28/10 22:38	

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QUALITY CONTROL DATA

Project: CHEROKEE LINED
Pace Project No.: 9264068

METHOD BLANK: 408650 Matrix: Water

Associated Lab Samples: 9264068001, 9264068002, 9264068003, 9264068004, 9264068005, 9264068006, 9264068007, 9264068008, 9264068009, 9264068010, 9264068011, 9264068012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	5.0	02/28/10 22:38	
Ethyl methacrylate	ug/L	ND	10.0	02/28/10 22:38	
Ethylbenzene	ug/L	ND	1.0	02/28/10 22:38	
Iodomethane	ug/L	ND	10.0	02/28/10 22:38	
Isobutanol	ug/L	ND	100	02/28/10 22:38	
Methacrylonitrile	ug/L	ND	100	02/28/10 22:38	
Methyl methacrylate	ug/L	ND	30.0	02/28/10 22:38	
Methylene Chloride	ug/L	ND	2.0	02/28/10 22:38	
Naphthalene	ug/L	ND	10.0	02/28/10 22:38	
Propionitrile	ug/L	ND	150	02/28/10 22:38	
Styrene	ug/L	ND	1.0	02/28/10 22:38	
Tetrachloroethene	ug/L	ND	1.0	02/28/10 22:38	
Toluene	ug/L	ND	1.0	02/28/10 22:38	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/28/10 22:38	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/28/10 22:38	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	02/28/10 22:38	
Trichloroethene	ug/L	ND	1.0	02/28/10 22:38	
Trichlorofluoromethane	ug/L	ND	1.0	02/28/10 22:38	
Vinyl acetate	ug/L	ND	50.0	02/28/10 22:38	
Vinyl chloride	ug/L	ND	1.0	02/28/10 22:38	
Xylene (Total)	ug/L	ND	2.0	02/28/10 22:38	
1,2-Dichloroethane-d4 (S)	%	101	79-120	02/28/10 22:38	
4-Bromofluorobenzene (S)	%	97	87-109	02/28/10 22:38	
Dibromofluoromethane (S)	%	107	85-115	02/28/10 22:38	
Toluene-d8 (S)	%	101	70-120	02/28/10 22:38	

LABORATORY CONTROL SAMPLE: 408651

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.5	103	83-125	
1,1,1-Trichloroethane	ug/L	50	54.5	109	80-129	
1,1,2,2-Tetrachloroethane	ug/L	50	49.2	98	73-127	
1,1,2-Trichloroethane	ug/L	50	53.9	108	77-123	
1,1-Dichloroethane	ug/L	50	56.4	113	76-129	
1,1-Dichloroethene	ug/L	50	52.1	104	78-146	
1,1-Dichloropropene	ug/L	50	53.2	106	79-134	
1,2,3-Trichloropropane	ug/L	50	52.3	105	72-125	
1,2-Dibromo-3-chloropropane	ug/L	50	46.9	94	65-128	
1,2-Dibromoethane (EDB)	ug/L	50	52.2	104	81-125	
1,2-Dichlorobenzene	ug/L	50	50.6	101	82-126	
1,2-Dichloroethane	ug/L	50	49.2	98	72-126	
1,2-Dichloropropane	ug/L	50	53.5	107	80-127	
1,3-Dichlorobenzene	ug/L	50	50.3	101	82-124	
1,3-Dichloropropane	ug/L	50	50.4	101	79-124	

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QUALITY CONTROL DATA

Project: CHEROKEE LINED
Pace Project No.: 9264068

LABORATORY CONTROL SAMPLE: 408651

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	49.5	99	79-125	
2,2-Dichloropropane	ug/L	50	49.9	100	58-140	
2-Butanone (MEK)	ug/L	100	115	115	50-134	
2-Hexanone	ug/L	100	118	118	58-138	
4-Methyl-2-pentanone (MIBK)	ug/L	100	113	113	70-131	
Acetone	ug/L	100	126	126	50-146	
Acetonitrile	ug/L	500	536	107	66-124	
Acrolein	ug/L	250	256	102	55-143	
Acrylonitrile	ug/L	250	294	118	66-124	
Allyl chloride	ug/L	50	37.2	74	73-141	
Benzene	ug/L	50	53.2	106	78-128	
Bromochloromethane	ug/L	50	54.6	109	73-124	
Bromodichloromethane	ug/L	50	50.2	100	81-125	
Bromoform	ug/L	50	50.7	101	71-125	
Bromomethane	ug/L	50	40.2	80	50-150	
Carbon disulfide	ug/L	50	55.6J	111	54-150	
Carbon tetrachloride	ug/L	50	51.8	104	81-137	
Chlorobenzene	ug/L	50	52.3	105	82-126	
Chloroethane	ug/L	50	51.7	103	69-140	
Chloroform	ug/L	50	51.9	104	77-129	
Chloromethane	ug/L	50	48.3	97	54-139	
Chloroprene	ug/L	50	52.1	104	71-142	
cis-1,2-Dichloroethene	ug/L	50	50.9	102	76-133	
cis-1,3-Dichloropropene	ug/L	50	52.6	105	76-127	
Dibromochloromethane	ug/L	50	50.2	100	77-125	
Dibromomethane	ug/L	50	52.8	106	77-125	
Dichlorodifluoromethane	ug/L	50	45.3	91	50-150	
Ethyl methacrylate	ug/L	50	55.7	111	73-129	
Ethylbenzene	ug/L	50	52.5	105	80-127	
Iodomethane	ug/L	100	119	119	65-172	
Isobutanol	ug/L	1000	1190	119	50-150	
Methacrylonitrile	ug/L	500	548	110	70-128	
Methyl methacrylate	ug/L	50	61.7	123	79-122	L3
Methylene Chloride	ug/L	50	43.3	87	67-133	
Naphthalene	ug/L	50	50.4	101	52-136	
Propionitrile	ug/L	500	570	114	65-129	
Styrene	ug/L	50	53.1	106	80-130	
Tetrachloroethene	ug/L	50	52.2	104	78-128	
Toluene	ug/L	50	53.2	106	76-126	
trans-1,2-Dichloroethene	ug/L	50	52.1	104	78-134	
trans-1,3-Dichloropropene	ug/L	50	52.1	104	75-125	
trans-1,4-Dichloro-2-butene	ug/L	50	51.8J	104	51-140	
Trichloroethene	ug/L	50	54.8	110	79-127	
Trichlorofluoromethane	ug/L	50	50.2	100	76-148	
Vinyl acetate	ug/L	100	114	114	50-150	
Vinyl chloride	ug/L	50	47.7	95	67-143	
Xylene (Total)	ug/L	150	161	107	83-125	
1,2-Dichloroethane-d4 (S)	%			95	79-120	

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QUALITY CONTROL DATA

Project: CHEROKEE LINED
Pace Project No.: 9264068

LABORATORY CONTROL SAMPLE: 408651

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			101	87-109	
Dibromofluoromethane (S)	%			100	85-115	
Toluene-d8 (S)	%			101	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 408652 408653

Parameter	Units	9264153006 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	63.3	62.7	127	125	60-150	1	30	
Benzene	ug/L	0.59J	50	50	57.9	56.3	115	111	74-136	3	30	
Chlorobenzene	ug/L	1.3J	50	50	56.5	55.1	110	108	79-135	3	30	
Toluene	ug/L	ND	50	50	57.8	56.7	116	113	73-131	2	30	
Trichloroethene	ug/L	ND	50	50	58.5	57.1	117	114	73-131	2	30	
1,2-Dichloroethane-d4 (S)	%						102	102	79-120			
4-Bromofluorobenzene (S)	%						99	98	87-109			
Dibromofluoromethane (S)	%						105	107	85-115			
Toluene-d8 (S)	%						100	100	70-120			

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QUALITY CONTROL DATA

Project: CHEROKEE LINED
Pace Project No.: 9264068

QC Batch: WET/11587 Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 9264068001, 9264068006, 9264068007, 9264068008, 9264068009

METHOD BLANK: 409773 Matrix: Water
Associated Lab Samples: 9264068001, 9264068006, 9264068007, 9264068008, 9264068009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	ug/L	ND	1000	03/03/10 17:30	

LABORATORY CONTROL SAMPLE: 409774

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	ug/L	500	534J	107	90-110	

MATRIX SPIKE SAMPLE: 409775

Parameter	Units	9264068001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	ug/L	ND	500	ND	0	75-125	M0

SAMPLE DUPLICATE: 409776

Parameter	Units	9264068006 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: CHEROKEE LINED
Pace Project No.: 9264068

QC Batch: WET/11553
QC Batch Method: SM 5210B
Analysis Method: SM 5210B
Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 9264068012

METHOD BLANK: 407836
Matrix: Water
Associated Lab Samples: 9264068012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	ug/L	ND	2000	03/03/10 10:25	

LABORATORY CONTROL SAMPLE: 407837

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	ug/L	198000	170000	86	84-115	

SAMPLE DUPLICATE: 407838

Parameter	Units	9264088004 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	ug/L	9.4 mg/L	8160	14	20	

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QUALITY CONTROL DATA

Project: CHEROKEE LINED
Pace Project No.: 9264068

QC Batch: WET/11659
QC Batch Method: EPA 9040
Analysis Method: EPA 9040
Analysis Description: 9040 pH
Associated Lab Samples: 9264068012

SAMPLE DUPLICATE: 412082

Parameter	Units	9263998001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH	Std. Units	6.2	6.2	0	20	H6

SAMPLE DUPLICATE: 412083

Parameter	Units	9263971001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH	Std. Units	7.5	7.5	0	20	H6

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QUALITY CONTROL DATA

Project: CHEROKEE LINED
Pace Project No.: 9264068

QC Batch: WETA/6831
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 9264068012

METHOD BLANK: 408005
Matrix: Water
Associated Lab Samples: 9264068012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	ug/L	ND	10000	02/26/10 11:30	

LABORATORY CONTROL SAMPLE: 408006

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	5000	5040J	101	90-110	

MATRIX SPIKE SAMPLE: 408007

Parameter	Units	9264011026 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	ug/L	ND	5000	5680J	113	90-110	M0

SAMPLE DUPLICATE: 408008

Parameter	Units	9264011027 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: CHEROKEE LINED
Pace Project No.: 9264068

QC Batch: WETA/6845
QC Batch Method: EPA 365.1
Analysis Method: EPA 365.1
Analysis Description: 365.1 Phosphorus, Total
Associated Lab Samples: 9264068012

METHOD BLANK: 409079
Matrix: Water
Associated Lab Samples: 9264068012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	ug/L	ND	100	03/02/10 12:41	

LABORATORY CONTROL SAMPLE: 409080

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	ug/L	1000	972	97	90-110	

MATRIX SPIKE SAMPLE: 409081

Parameter	Units	9263338001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	ug/L	0.42 mg/L	1000	1300	89	90-110	M0

MATRIX SPIKE SAMPLE: 409083

Parameter	Units	9263816001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	ug/L	0.65 mg/L	1000	1480	83	90-110	M0

SAMPLE DUPLICATE: 409082

Parameter	Units	9263683003 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus	ug/L	17.1 mg/L	17200	1	20	

SAMPLE DUPLICATE: 409084

Parameter	Units	9263932001 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus	ug/L	2.6 mg/L	2580	2	20	

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QUALITY CONTROL DATA

Project: CHEROKEE LINED
Pace Project No.: 9264068

QC Batch: WETA/6837 Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E Analysis Description: 4500 Chloride
Associated Lab Samples: 9264068001, 9264068006, 9264068007

METHOD BLANK: 408569 Matrix: Water
Associated Lab Samples: 9264068001, 9264068006, 9264068007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	ug/L	ND	5000	02/27/10 13:18	

LABORATORY CONTROL SAMPLE: 408570

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L	20000	21200	106	90-110	

MATRIX SPIKE SAMPLE: 408571

Parameter	Units	9263875022 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L	31.3 mg/L	20000	47000	78	75-125	

SAMPLE DUPLICATE: 408572

Parameter	Units	9263875023 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	ug/L	23.8 mg/L	23700	0	20	

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QUALITY CONTROL DATA

Project: CHEROKEE LINED
Pace Project No.: 9264068

QC Batch: WETA/6868 | Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E | Analysis Description: 4500 Chloride
Associated Lab Samples: 9264068008, 9264068009

METHOD BLANK: 411779 | Matrix: Water
Associated Lab Samples: 9264068008, 9264068009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	ug/L	ND	5000	03/06/10 12:51	

LABORATORY CONTROL SAMPLE: 411780

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L	20000	20400	102	90-110	

MATRIX SPIKE SAMPLE: 411781

Parameter	Units	9264497002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	ug/L	111 mg/L	20000	130000	96	75-125	

SAMPLE DUPLICATE: 411782

Parameter	Units	9264497003 Result	Dup Result	RPD	Max RPD	Qualifiers
Chloride	ug/L	117 mg/L	114000	2	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: CHEROKEE LINED
Pace Project No.: 9264068

QC Batch: WETA/6839
QC Batch Method: SM 4500-CN-E
Analysis Method: SM 4500-CN-E
Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 9264068001, 9264068006

METHOD BLANK: 408690
Matrix: Water
Associated Lab Samples: 9264068001, 9264068006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	ND	10.0	03/07/10 11:18	

LABORATORY CONTROL SAMPLE: 408691

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	100	92.3	92	80-120	

MATRIX SPIKE SAMPLE: 408692

Parameter	Units	9264172001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	14200 mg/L	100000	14200000	-60	75-125	M0

SAMPLE DUPLICATE: 408693

Parameter	Units	9264172002 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide	ug/L	0.46 mg/L	468	2	20	

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QUALITY CONTROL DATA

Project: CHEROKEE LINED
Pace Project No.: 9264068

QC Batch: WETA/6848 | Analysis Method: SM 4500-CN-E
QC Batch Method: SM 4500-CN-E | Analysis Description: 4500CNE Cyanide, Total
Associated Lab Samples: 9264068007, 9264068008, 9264068009, 9264068012

METHOD BLANK: 409093 | Matrix: Water
Associated Lab Samples: 9264068007, 9264068008, 9264068009, 9264068012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	ug/L	ND	10.0	03/05/10 09:51	

LABORATORY CONTROL SAMPLE: 409094

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	100	101	101	80-120	

MATRIX SPIKE SAMPLE: 409095

Parameter	Units	9264313001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide	ug/L	ND	100	71.6	70	75-125	M0

SAMPLE DUPLICATE: 409096

Parameter	Units	9264068007 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: CHEROKEE LINED
Pace Project No.: 9264068

QC Batch: WETA/6882
QC Batch Method: SM 5220D
Analysis Method: SM 5220D
Analysis Description: 5220D COD
Associated Lab Samples: 9264068012

METHOD BLANK: 412308
Matrix: Water
Associated Lab Samples: 9264068012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	ug/L	ND	25000	03/10/10 11:26	

LABORATORY CONTROL SAMPLE: 412309

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	750000	771000	103	90-110	

MATRIX SPIKE SAMPLE: 412310

Parameter	Units	9263924011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	69000	750000	762000	92	75-125	

MATRIX SPIKE SAMPLE: 412316

Parameter	Units	9264069004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	ug/L	ND	750000	766000	102	75-125	

SAMPLE DUPLICATE: 412315

Parameter	Units	9263924012 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	ug/L	ND	ND		20	

SAMPLE DUPLICATE: 412317

Parameter	Units	9264069005 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: CHEROKEE LINED
Pace Project No.: 9264068

QC Batch: WETA/6893
QC Batch Method: ASTM D516-90
Analysis Method: ASTM D516-90
Analysis Description: ASTM D516-90 Sulfate Water
Associated Lab Samples: 9264068012

METHOD BLANK: 413665
Matrix: Water
Associated Lab Samples: 9264068012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	ug/L	ND	250000	03/11/10 11:38	

LABORATORY CONTROL SAMPLE: 413666

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	20000	19800J	99	90-110	

MATRIX SPIKE SAMPLE: 413667

Parameter	Units	9263819001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	5.8 mg/L	20000	13900J	40	75-125	M0

MATRIX SPIKE SAMPLE: 413669

Parameter	Units	9264741002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	ug/L	40.8 mg/L	20000	50300J	47	75-125	M0

SAMPLE DUPLICATE: 413668

Parameter	Units	9263819002 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	ug/L	5.3 mg/L	5370J	1	20	

SAMPLE DUPLICATE: 413670

Parameter	Units	9264741003 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfate	ug/L	39.3 mg/L	39500J	0	20	

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QUALIFIERS

Project: CHEROKEE LINED
Pace Project No.: 9264068

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.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

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

ANALYTE QUALIFIERS

H1	Analysis conducted outside the EPA method holding time.
H6	Analysis initiated more than 15 minutes after sample collection.
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 and/or matrix spike duplicate recovery was outside laboratory control limits.
R1	RPD value was outside control limits.
Z2	Analyte present in the associated method blank above the detection limit.

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ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

March 10, 2010

Kevin Godwin
Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville NC 28078

TEL: (704) 875-9092
FAX: (704) 875-9091

RE: 9264068

Dear Kevin Godwin: Order No: 1003049

Analytical Environmental Services, Inc. received 4 samples on 2/27/2010 11:35:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/09-06/30/10.
-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/11.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Janice Winn-Shilling
Project Manager

1003049

Chain of Custody

Pace Analytical®
www.pacelabs.com

Workorder: 9264068 **Workorder Name:** CHEROKEE LINED **Results Requested** 3/11/2010

Report / Invoice To

Kevin Godwin
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
Phone (704)875-9092
Email: kevin.godwin@pacelabs.com

Subcontract To

AES

P.O. CHS08333

Requested Analysis

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	Preserved Containers: AGIL	8081 App 2 Cmpd list Attached	8151 see comments	8270 App 2 compound list attached	LAB USE ONLY
1	MW-6S	2/24/2010 16:10	9264068006	Water	6		X	X	X	
2	MW-6D	2/24/2010 15:10	9264068007	Water	6		X	X	X	
3	MW-7	2/24/2010 14:20	9264068008	Water	6		X	X	X	
4	MW-8	2/24/2010 13:30	9264068009	Water	6		X	X	X	
5										

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	2/26/10 17:00		
2			M. [signature] 2/27/10	11:35
3				
4				
5				

Comments

* 8081 + 8270 compound list attached
* 8151: please only report: 2,4-D
Dinoseb
2,4,5-T
2,4,5-TP

* Please report MDL + J-Flags
* Please send NC EDD (Landfill)

2 of 39

Analytical Environmental Services, Inc **Date:** 17-Mar-10

Client:	Pace Analytical Services, Inc.	**Client Sample ID:**	MW-6S
Project:	9264068	**Collection Date:**	2/24/2010 4:10:00 PM
Lab ID:	1003049-001	**Matrix:**	Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
CHLORINATED PESTICIDES, TCL SW8081B					**(SW3510B)**				
4,4´-DDD	BRL		0.015	0.10	ug/L	125880	1	03/05/2010 18:32	KD
4,4´-DDE	BRL		0.012	0.10	ug/L	125880	1	03/05/2010 18:32	KD
4,4´-DDT	BRL		0.0097	0.10	ug/L	125880	1	03/05/2010 18:32	KD
Aldrin	BRL		0.0079	0.050	ug/L	125880	1	03/05/2010 18:32	KD
alpha-BHC	BRL		0.0066	0.050	ug/L	125880	1	03/05/2010 18:32	KD
beta-BHC	BRL		0.013	0.050	ug/L	125880	1	03/05/2010 18:32	KD
delta-BHC	BRL		0.0053	0.050	ug/L	125880	1	03/05/2010 18:32	KD
Dieldrin	BRL		0.014	0.10	ug/L	125880	1	03/05/2010 18:32	KD
Endosulfan I	BRL		0.0097	0.050	ug/L	125880	1	03/05/2010 18:32	KD
Endosulfan II	BRL		0.014	0.10	ug/L	125880	1	03/05/2010 18:32	KD
Endosulfan sulfate	BRL		0.017	0.10	ug/L	125880	1	03/05/2010 18:32	KD
Endrin	BRL		0.014	0.10	ug/L	125880	1	03/05/2010 18:32	KD
Endrin aldehyde	BRL		0.031	0.10	ug/L	125880	1	03/05/2010 18:32	KD
Endrin ketone	BRL		0.018	0.10	ug/L	125880	1	03/05/2010 18:32	KD
gamma-BHC	BRL		0.0075	0.050	ug/L	125880	1	03/05/2010 18:32	KD
Heptachlor	BRL		0.010	0.050	ug/L	125880	1	03/05/2010 18:32	KD
Heptachlor epoxide	BRL		0.0079	0.050	ug/L	125880	1	03/05/2010 18:32	KD
Methoxychlor	BRL		0.064	0.50	ug/L	125880	1	03/05/2010 18:32	KD
Toxaphene	BRL		0.17	5.0	ug/L	125880	1	03/05/2010 18:32	KD
Surr: Decachlorobiphenyl	74.5		0	16.1-124	%REC	125880	1	03/05/2010 18:32	KD
Surr: Tetrachloro-m-xylene	84.1		0	16-126	%REC	125880	1	03/05/2010 18:32	KD
CHLORINATED PESTICIDES, APPENDIX II LIST SW8081B					**(SW3510B)**				
Chlordane	BRL		0.068	0.50	ug/L	125880	1	03/05/2010 18:32	KD
Surr: Decachlorobiphenyl	74.5		0	16.1-124	%REC	125880	1	03/05/2010 18:32	KD
Surr: Tetrachloro-m-xylene	84.1		0	16-126	%REC	125880	1	03/05/2010 18:32	KD
CHLORINATED HERBICIDES SW8151A					**(SW3510B)**				
2,4,5-T	BRL		0.70	2.0	ug/L	125879	1	03/05/2010 08:09	AK
2,4,5-TP (Silvex)	BRL		0.66	2.0	ug/L	125879	1	03/05/2010 08:09	AK
2,4-D	BRL		1.2	2.0	ug/L	125879	1	03/05/2010 08:09	AK
Dinoseb	BRL		0.55	5.0	ug/L	125879	1	03/05/2010 08:09	AK
Surr: DCAA	62.5		0	50-143	%REC	125879	1	03/05/2010 08:09	AK
APPENDIXII-SEMIVOLATILE ORGANICS SW8270D					**(SW3510)**				
1,2,4,5-Tetrachlorobenzene	BRL		0.82	10	ug/L	125821	1	03/03/2010 14:37	YH
1,2,4-Trichlorobenzene	BRL		0.95	10	ug/L	125821	1	03/03/2010 14:37	YH
1,2-Dichlorobenzene	BRL		1.3	10	ug/L	125821	1	03/03/2010 14:37	YH
1,3-Dichlorobenzene	BRL		1.3	10	ug/L	125821	1	03/03/2010 14:37	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 17-Mar-10

Client:	Pace Analytical Services, Inc.	**Client Sample ID:**	MW-6S
Project:	9264068	**Collection Date:**	2/24/2010 4:10:00 PM
Lab ID:	1003049-001	**Matrix:**	Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
APPENDIXII-SEMIVOLATILE ORGANICS SW8270D (SW3510)									
1,3-Dinitrobenzene	BRL		6.9	20	ug/L	125821	1	03/03/2010 14:37	YH
1,4-Dichlorobenzene	15		1.4	10	ug/L	125821	1	03/03/2010 14:37	YH
1,4-Napthoquinone	BRL		6.3	10	ug/L	125821	1	03/03/2010 14:37	YH
1-Naphthylamine	BRL		2.5	10	ug/L	125821	1	03/03/2010 14:37	YH
2,3,4,6-Tetrachlorophenol	BRL		0.80	10	ug/L	125821	1	03/03/2010 14:37	YH
2,4,5-Trichlorophenol	BRL		1.5	10	ug/L	125821	1	03/03/2010 14:37	YH
2,4,6-Trichlorophenol	BRL		1.2	10	ug/L	125821	1	03/03/2010 14:37	YH
2,4-Dichlorophenol	BRL		1.3	10	ug/L	125821	1	03/03/2010 14:37	YH
2,4-Dimethylphenol	BRL		0.54	50	ug/L	125821	1	03/03/2010 14:37	YH
2,4-Dinitrophenol	BRL		3.4	50	ug/L	125821	1	03/03/2010 14:37	YH
2,4-Dinitrotoluene	BRL		1.1	10	ug/L	125821	1	03/03/2010 14:37	YH
2,6-Dichlorophenol	BRL		1.0	10	ug/L	125821	1	03/03/2010 14:37	YH
2,6-Dinitrotoluene	BRL		0.74	10	ug/L	125821	1	03/03/2010 14:37	YH
2-Acetylaminofluorene	BRL		6.9	20	ug/L	125821	1	03/03/2010 14:37	YH
2-Chloronaphthalene	BRL		0.72	10	ug/L	125821	1	03/03/2010 14:37	YH
2-Chlorophenol	BRL		1.7	10	ug/L	125821	1	03/03/2010 14:37	YH
2-Methylnaphthalene	BRL		0.89	10	ug/L	125821	1	03/03/2010 14:37	YH
2-Methylphenol	BRL		0.98	10	ug/L	125821	1	03/03/2010 14:37	YH
2-Naphthylamine	BRL		2.9	10	ug/L	125821	1	03/03/2010 14:37	YH
2-Nitroaniline	BRL		0.63	50	ug/L	125821	1	03/03/2010 14:37	YH
2-Nitrophenol	BRL		0.66	10	ug/L	125821	1	03/03/2010 14:37	YH
3,3´-Dichlorobenzidine	BRL		2.6	20	ug/L	125821	1	03/03/2010 14:37	YH
3,3´-Dimethylbenzidine	BRL		6.3	20	ug/L	125821	1	03/03/2010 14:37	YH
3,4-Methylphenol	BRL		2.4	10	ug/L	125821	1	03/03/2010 14:37	YH
3-Methylcholanthrene	BRL		0.81	10	ug/L	125821	1	03/03/2010 14:37	YH
3-Nitroaniline	BRL		1.1	50	ug/L	125821	1	03/03/2010 14:37	YH
4,6-Dinitro-2-methylphenol	BRL		1.2	50	ug/L	125821	1	03/03/2010 14:37	YH
4-Aminobiphenyl	BRL		2.7	20	ug/L	125821	1	03/03/2010 14:37	YH
4-Bromophenyl phenyl ether	BRL		0.63	10	ug/L	125821	1	03/03/2010 14:37	YH
4-Chloro-3-methylphenol	BRL		1.3	20	ug/L	125821	1	03/03/2010 14:37	YH
4-Chloroaniline	BRL		1.3	20	ug/L	125821	1	03/03/2010 14:37	YH
4-Chlorophenyl phenyl ether	BRL		0.37	10	ug/L	125821	1	03/03/2010 14:37	YH
4-Nitroaniline	BRL		1.4	20	ug/L	125821	1	03/03/2010 14:37	YH
4-Nitrophenol	BRL		5.3	50	ug/L	125821	1	03/03/2010 14:37	YH
5-Nitro-o-toluidine	BRL		6.2	10	ug/L	125821	1	03/03/2010 14:37	YH
7,12-Dimethylbenz(a)anthracene	BRL		6.4	10	ug/L	125821	1	03/03/2010 14:37	YH
Acenaphthene	BRL		0.59	10	ug/L	125821	1	03/03/2010 14:37	YH
Acenaphthylene	BRL		0.36	10	ug/L	125821	1	03/03/2010 14:37	YH
Acetophenone	BRL		2.3	10	ug/L	125821	1	03/03/2010 14:37	YH

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 17-Mar-10

Client:	Pace Analytical Services, Inc.	**Client Sample ID:**	MW-6S
Project:	9264068	**Collection Date:**	2/24/2010 4:10:00 PM
Lab ID:	1003049-001	**Matrix:**	Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
APPENDIXII-SEMIVOLATILE ORGANICS SW8270D (SW3510)									
Anthracene	BRL		0.44	10	ug/L	125821	1	03/03/2010 14:37	YH
Benz(a)anthracene	BRL		0.93	10	ug/L	125821	1	03/03/2010 14:37	YH
Benzo(a)pyrene	BRL		1.2	10	ug/L	125821	1	03/03/2010 14:37	YH
Benzo(b)fluoranthene	BRL		0.67	10	ug/L	125821	1	03/03/2010 14:37	YH
Benzo(g,h,i)perylene	BRL		1.0	10	ug/L	125821	1	03/03/2010 14:37	YH
Benzo(k)fluoranthene	BRL		1.4	10	ug/L	125821	1	03/03/2010 14:37	YH
Benzyl alcohol	BRL		1.3	20	ug/L	125821	1	03/03/2010 14:37	YH
Bis(2-chloroethoxy)methane	BRL		0.99	10	ug/L	125821	1	03/03/2010 14:37	YH
Bis(2-chloroethyl)ether	BRL		1.1	10	ug/L	125821	1	03/03/2010 14:37	YH
Bis(2-chloroisopropyl)ether	BRL		1.1	10	ug/L	125821	1	03/03/2010 14:37	YH
Bis(2-ethylhexyl)phthalate	BRL		6.7	20	ug/L	125821	1	03/03/2010 14:37	YH
Butyl benzyl phthalate	BRL		1.1	10	ug/L	125821	1	03/03/2010 14:37	YH
Chlorobenzilate	BRL		6.2	10	ug/L	125821	1	03/03/2010 14:37	YH
Chrysene	BRL		0.68	10	ug/L	125821	1	03/03/2010 14:37	YH
Di-n-butyl phthalate	BRL		0.93	10	ug/L	125821	1	03/03/2010 14:37	YH
Di-n-octyl phthalate	BRL		1.6	10	ug/L	125821	1	03/03/2010 14:37	YH
Diallate	BRL		5.7	10	ug/L	125821	1	03/03/2010 14:37	YH
Dibenz(a,h)anthracene	BRL		1.5	10	ug/L	125821	1	03/03/2010 14:37	YH
Dibenzofuran	BRL		0.29	10	ug/L	125821	1	03/03/2010 14:37	YH
Diethyl phthalate	BRL		0.49	10	ug/L	125821	1	03/03/2010 14:37	YH
Dimethoate	BRL		6.8	20	ug/L	125821	1	03/03/2010 14:37	YH
Dimethyl phthalate	BRL		0.45	10	ug/L	125821	1	03/03/2010 14:37	YH
Diphenylamine	BRL		0.66	10	ug/L	125821	1	03/03/2010 14:37	YH
Disulfoton	BRL		5.5	10	ug/L	125821	1	03/03/2010 14:37	YH
Ethyl methanesulfonate	BRL		1.4	20	ug/L	125821	1	03/03/2010 14:37	YH
Famphur	BRL		7.6	20	ug/L	125821	1	03/03/2010 14:37	YH
Fluoranthene	BRL		0.75	10	ug/L	125821	1	03/03/2010 14:37	YH
Fluorene	BRL		0.32	10	ug/L	125821	1	03/03/2010 14:37	YH
Hexachlorobenzene	BRL		0.64	10	ug/L	125821	1	03/03/2010 14:37	YH
Hexachlorobutadiene	BRL		1.1	10	ug/L	125821	1	03/03/2010 14:37	YH
Hexachlorocyclopentadiene	BRL		1.1	10	ug/L	125821	1	03/03/2010 14:37	YH
Hexachloroethane	BRL		1.4	10	ug/L	125821	1	03/03/2010 14:37	YH
Hexachloropropene	BRL		4.8	10	ug/L	125821	1	03/03/2010 14:37	YH
Indeno(1,2,3-cd)pyrene	BRL		1.3	10	ug/L	125821	1	03/03/2010 14:37	YH
Isodrin	BRL		5.2	20	ug/L	125821	1	03/03/2010 14:37	YH
Isophorone	BRL		0.59	10	ug/L	125821	1	03/03/2010 14:37	YH
Isosafrole	BRL		6.0	10	ug/L	125821	1	03/03/2010 14:37	YH
Kepone	BRL		9.6	50	ug/L	125821	1	03/03/2010 14:37	YH
Methapyrilene	BRL		2.7	20	ug/L	125821	1	03/03/2010 14:37	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 17-Mar-10

Client:	Pace Analytical Services, Inc.	**Client Sample ID:**	MW-6S
Project:	9264068	**Collection Date:**	2/24/2010 4:10:00 PM
Lab ID:	1003049-001	**Matrix:**	Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
APPENDIXII-SEMIVOLATILE ORGANICS SW8270D (SW3510)									
Methyl methanesulfonate	BRL		1.4	10	ug/L	125821	1	03/03/2010 14:37	YH
Methyl parathion	BRL		7.0	10	ug/L	125821	1	03/03/2010 14:37	YH
N-Nitroso-di-n-butylamine	BRL		1.8	10	ug/L	125821	1	03/03/2010 14:37	YH
N-Nitrosodi-n-propylamine	BRL		1.5	10	ug/L	125821	1	03/03/2010 14:37	YH
N-Nitrosodiethylamine	BRL		5.0	20	ug/L	125821	1	03/03/2010 14:37	YH
N-Nitrosodimethylamine	BRL		1.7	20	ug/L	125821	1	03/03/2010 14:37	YH
N-Nitrosodiphenylamine	BRL		0.42	50	ug/L	125821	1	03/03/2010 14:37	YH
N-Nitrosomethylethylamine	BRL		6.0	10	ug/L	125821	1	03/03/2010 14:37	YH
N-Nitrosopiperidine	BRL		1.2	20	ug/L	125821	1	03/03/2010 14:37	YH
N-Nitrosopyrrolidine	BRL		5.4	40	ug/L	125821	1	03/03/2010 14:37	YH
Naphthalene	BRL		1.0	10	ug/L	125821	1	03/03/2010 14:37	YH
Nitrobenzene	BRL		1.2	10	ug/L	125821	1	03/03/2010 14:37	YH
O,O,O-Triethylphosphorothioate	BRL		3.6	10	ug/L	125821	1	03/03/2010 14:37	YH
o-Toluidine	BRL		3.9	20	ug/L	125821	1	03/03/2010 14:37	YH
p-Dimethylaminoazobenzene	BRL		0.41	10	ug/L	125821	1	03/03/2010 14:37	YH
p-Phenylenediamine	BRL		88	500	ug/L	125821	1	03/03/2010 14:37	YH
Parathion	BRL		6.8	10	ug/L	125821	1	03/03/2010 14:37	YH
Pentachlorobenzene	BRL		0.73	10	ug/L	125821	1	03/03/2010 14:37	YH
Pentachloronitrobenzene	BRL		1.3	20	ug/L	125821	1	03/03/2010 14:37	YH
Pentachlorophenol	BRL		2.7	50	ug/L	125821	1	03/03/2010 14:37	YH
Phenacetin	BRL		1.0	20	ug/L	125821	1	03/03/2010 14:37	YH
Phenanthrene	BRL		0.52	10	ug/L	125821	1	03/03/2010 14:37	YH
Phenol	BRL		1.6	10	ug/L	125821	1	03/03/2010 14:37	YH
Phorate	BRL		6.9	10	ug/L	125821	1	03/03/2010 14:37	YH
Pronamide	BRL		1.1	10	ug/L	125821	1	03/03/2010 14:37	YH
Pyrene	BRL		0.99	10	ug/L	125821	1	03/03/2010 14:37	YH
Safrole	BRL		5.7	20	ug/L	125821	1	03/03/2010 14:37	YH
Sym-Trinitrobenzene	BRL		5.4	10	ug/L	125821	1	03/03/2010 14:37	YH
Thionazin	BRL		6.3	20	ug/L	125821	1	03/03/2010 14:37	YH
Surr: 2,4,6-Tribromophenol	102		0	54.9-149	%REC	125821	1	03/03/2010 14:37	YH
Surr: 2-Fluorobiphenyl	99.1		0	51.5-119	%REC	125821	1	03/03/2010 14:37	YH
Surr: 2-Fluorophenol	61.1		0	25.1-115	%REC	125821	1	03/03/2010 14:37	YH
Surr: 4-Terphenyl-d14	104		0	37.5-131	%REC	125821	1	03/03/2010 14:37	YH
Surr: Nitrobenzene-d5	86.3		0	42.5-122	%REC	125821	1	03/03/2010 14:37	YH
Surr: Phenol-d5	38.8		0	10-115	%REC	125821	1	03/03/2010 14:37	YH

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 17-Mar-10

Client:	Pace Analytical Services, Inc.	**Client Sample ID:**	MW-6D
Project:	9264068	**Collection Date:**	2/24/2010 3:10:00 PM
Lab ID:	1003049-002	**Matrix:**	Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
CHLORINATED PESTICIDES, TCL SW8081B					**(SW3510B)**				
4,4´-DDD	BRL		0.015	0.10	ug/L	125880	1	03/05/2010 18:43	KD
4,4´-DDE	BRL		0.012	0.10	ug/L	125880	1	03/05/2010 18:43	KD
4,4´-DDT	BRL		0.0097	0.10	ug/L	125880	1	03/05/2010 18:43	KD
Aldrin	BRL		0.0079	0.050	ug/L	125880	1	03/05/2010 18:43	KD
alpha-BHC	BRL		0.0066	0.050	ug/L	125880	1	03/05/2010 18:43	KD
beta-BHC	BRL		0.013	0.050	ug/L	125880	1	03/05/2010 18:43	KD
delta-BHC	BRL		0.0053	0.050	ug/L	125880	1	03/05/2010 18:43	KD
Dieldrin	BRL		0.014	0.10	ug/L	125880	1	03/05/2010 18:43	KD
Endosulfan I	BRL		0.0097	0.050	ug/L	125880	1	03/05/2010 18:43	KD
Endosulfan II	BRL		0.014	0.10	ug/L	125880	1	03/05/2010 18:43	KD
Endosulfan sulfate	BRL		0.017	0.10	ug/L	125880	1	03/05/2010 18:43	KD
Endrin	BRL		0.014	0.10	ug/L	125880	1	03/05/2010 18:43	KD
Endrin aldehyde	BRL		0.031	0.10	ug/L	125880	1	03/05/2010 18:43	KD
Endrin ketone	BRL		0.018	0.10	ug/L	125880	1	03/05/2010 18:43	KD
gamma-BHC	BRL		0.0075	0.050	ug/L	125880	1	03/05/2010 18:43	KD
Heptachlor	BRL		0.010	0.050	ug/L	125880	1	03/05/2010 18:43	KD
Heptachlor epoxide	BRL		0.0079	0.050	ug/L	125880	1	03/05/2010 18:43	KD
Methoxychlor	BRL		0.064	0.50	ug/L	125880	1	03/05/2010 18:43	KD
Toxaphene	BRL		0.17	5.0	ug/L	125880	1	03/05/2010 18:43	KD
Surr: Decachlorobiphenyl	84.4		0	16.1-124	%REC	125880	1	03/05/2010 18:43	KD
Surr: Tetrachloro-m-xylene	98		0	16-126	%REC	125880	1	03/05/2010 18:43	KD
CHLORINATED PESTICIDES, APPENDIX II LIST SW8081B					**(SW3510B)**				
Chlordane	BRL		0.068	0.50	ug/L	125880	1	03/05/2010 18:43	KD
Surr: Decachlorobiphenyl	84.4		0	16.1-124	%REC	125880	1	03/05/2010 18:43	KD
Surr: Tetrachloro-m-xylene	98		0	16-126	%REC	125880	1	03/05/2010 18:43	KD
CHLORINATED HERBICIDES SW8151A					**(SW3510B)**				
2,4,5-T	BRL		0.70	2.0	ug/L	125879	1	03/05/2010 07:12	AK
2,4,5-TP (Silvex)	BRL		0.66	2.0	ug/L	125879	1	03/05/2010 07:12	AK
2,4-D	BRL		1.2	2.0	ug/L	125879	1	03/05/2010 07:12	AK
Dinoseb	BRL		0.55	5.0	ug/L	125879	1	03/05/2010 07:12	AK
Surr: DCAA	70.9		0	50-143	%REC	125879	1	03/05/2010 07:12	AK
APPENDIXII-SEMIVOLATILE ORGANICS SW8270D					**(SW3510)**				
1,2,4,5-Tetrachlorobenzene	BRL		0.82	10	ug/L	125821	1	03/03/2010 15:04	YH
1,2,4-Trichlorobenzene	BRL		0.95	10	ug/L	125821	1	03/03/2010 15:04	YH
1,2-Dichlorobenzene	BRL		1.3	10	ug/L	125821	1	03/03/2010 15:04	YH
1,3-Dichlorobenzene	BRL		1.3	10	ug/L	125821	1	03/03/2010 15:04	YH

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 17-Mar-10

Client:	Pace Analytical Services, Inc.	**Client Sample ID:**	MW-6D
Project:	9264068	**Collection Date:**	2/24/2010 3:10:00 PM
Lab ID:	1003049-002	**Matrix:**	Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
APPENDIXII-SEMIVOLATILE ORGANICS SW8270D (SW3510)									
1,3-Dinitrobenzene	BRL		6.9	20	ug/L	125821	1	03/03/2010 15:04	YH
1,4-Dichlorobenzene	3.8	J	1.4	10	ug/L	125821	1	03/03/2010 15:04	YH
1,4-Napthoquinone	BRL		6.3	10	ug/L	125821	1	03/03/2010 15:04	YH
1-Naphthylamine	BRL		2.5	10	ug/L	125821	1	03/03/2010 15:04	YH
2,3,4,6-Tetrachlorophenol	BRL		0.80	10	ug/L	125821	1	03/03/2010 15:04	YH
2,4,5-Trichlorophenol	BRL		1.5	10	ug/L	125821	1	03/03/2010 15:04	YH
2,4,6-Trichlorophenol	BRL		1.2	10	ug/L	125821	1	03/03/2010 15:04	YH
2,4-Dichlorophenol	BRL		1.3	10	ug/L	125821	1	03/03/2010 15:04	YH
2,4-Dimethylphenol	BRL		0.54	50	ug/L	125821	1	03/03/2010 15:04	YH
2,4-Dinitrophenol	BRL		3.4	50	ug/L	125821	1	03/03/2010 15:04	YH
2,4-Dinitrotoluene	BRL		1.1	10	ug/L	125821	1	03/03/2010 15:04	YH
2,6-Dichlorophenol	BRL		1.0	10	ug/L	125821	1	03/03/2010 15:04	YH
2,6-Dinitrotoluene	BRL		0.74	10	ug/L	125821	1	03/03/2010 15:04	YH
2-Acetylaminofluorene	BRL		6.9	20	ug/L	125821	1	03/03/2010 15:04	YH
2-Chloronaphthalene	BRL		0.72	10	ug/L	125821	1	03/03/2010 15:04	YH
2-Chlorophenol	BRL		1.7	10	ug/L	125821	1	03/03/2010 15:04	YH
2-Methylnaphthalene	BRL		0.89	10	ug/L	125821	1	03/03/2010 15:04	YH
2-Methylphenol	BRL		0.98	10	ug/L	125821	1	03/03/2010 15:04	YH
2-Naphthylamine	BRL		2.9	10	ug/L	125821	1	03/03/2010 15:04	YH
2-Nitroaniline	BRL		0.63	50	ug/L	125821	1	03/03/2010 15:04	YH
2-Nitrophenol	BRL		0.66	10	ug/L	125821	1	03/03/2010 15:04	YH
3,3´-Dichlorobenzidine	BRL		2.6	20	ug/L	125821	1	03/03/2010 15:04	YH
3,3´-Dimethylbenzidine	BRL		6.3	20	ug/L	125821	1	03/03/2010 15:04	YH
3,4-Methylphenol	BRL		2.4	10	ug/L	125821	1	03/03/2010 15:04	YH
3-Methylcholanthrene	BRL		0.81	10	ug/L	125821	1	03/03/2010 15:04	YH
3-Nitroaniline	BRL		1.1	50	ug/L	125821	1	03/03/2010 15:04	YH
4,6-Dinitro-2-methylphenol	BRL		1.2	50	ug/L	125821	1	03/03/2010 15:04	YH
4-Aminobiphenyl	BRL		2.7	20	ug/L	125821	1	03/03/2010 15:04	YH
4-Bromophenyl phenyl ether	BRL		0.63	10	ug/L	125821	1	03/03/2010 15:04	YH
4-Chloro-3-methylphenol	BRL		1.3	20	ug/L	125821	1	03/03/2010 15:04	YH
4-Chloroaniline	BRL		1.3	20	ug/L	125821	1	03/03/2010 15:04	YH
4-Chlorophenyl phenyl ether	BRL		0.37	10	ug/L	125821	1	03/03/2010 15:04	YH
4-Nitroaniline	BRL		1.4	20	ug/L	125821	1	03/03/2010 15:04	YH
4-Nitrophenol	BRL		5.3	50	ug/L	125821	1	03/03/2010 15:04	YH
5-Nitro-o-toluidine	BRL		6.2	10	ug/L	125821	1	03/03/2010 15:04	YH
7,12-Dimethylbenz(a)anthracene	BRL		6.4	10	ug/L	125821	1	03/03/2010 15:04	YH
Acenaphthene	BRL		0.59	10	ug/L	125821	1	03/03/2010 15:04	YH
Acenaphthylene	BRL		0.36	10	ug/L	125821	1	03/03/2010 15:04	YH
Acetophenone	BRL		2.3	10	ug/L	125821	1	03/03/2010 15:04	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 17-Mar-10

Client:	Pace Analytical Services, Inc.	**Client Sample ID:**	MW-6D
Project:	9264068	**Collection Date:**	2/24/2010 3:10:00 PM
Lab ID:	1003049-002	**Matrix:**	Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
APPENDIXII-SEMIVOLATILE ORGANICS SW8270D (SW3510)									
Anthracene	BRL		0.44	10	ug/L	125821	1	03/03/2010 15:04	YH
Benz(a)anthracene	BRL		0.93	10	ug/L	125821	1	03/03/2010 15:04	YH
Benzo(a)pyrene	BRL		1.2	10	ug/L	125821	1	03/03/2010 15:04	YH
Benzo(b)fluoranthene	BRL		0.67	10	ug/L	125821	1	03/03/2010 15:04	YH
Benzo(g,h,i)perylene	BRL		1.0	10	ug/L	125821	1	03/03/2010 15:04	YH
Benzo(k)fluoranthene	BRL		1.4	10	ug/L	125821	1	03/03/2010 15:04	YH
Benzyl alcohol	BRL		1.3	20	ug/L	125821	1	03/03/2010 15:04	YH
Bis(2-chloroethoxy)methane	BRL		0.99	10	ug/L	125821	1	03/03/2010 15:04	YH
Bis(2-chloroethyl)ether	BRL		1.1	10	ug/L	125821	1	03/03/2010 15:04	YH
Bis(2-chloroisopropyl)ether	BRL		1.1	10	ug/L	125821	1	03/03/2010 15:04	YH
Bis(2-ethylhexyl)phthalate	BRL		6.7	20	ug/L	125821	1	03/03/2010 15:04	YH
Butyl benzyl phthalate	BRL		1.1	10	ug/L	125821	1	03/03/2010 15:04	YH
Chlorobenzilate	BRL		6.2	10	ug/L	125821	1	03/03/2010 15:04	YH
Chrysene	BRL		0.68	10	ug/L	125821	1	03/03/2010 15:04	YH
Di-n-butyl phthalate	BRL		0.93	10	ug/L	125821	1	03/03/2010 15:04	YH
Di-n-octyl phthalate	BRL		1.6	10	ug/L	125821	1	03/03/2010 15:04	YH
Diallate	BRL		5.7	10	ug/L	125821	1	03/03/2010 15:04	YH
Dibenz(a,h)anthracene	BRL		1.5	10	ug/L	125821	1	03/03/2010 15:04	YH
Dibenzofuran	BRL		0.29	10	ug/L	125821	1	03/03/2010 15:04	YH
Diethyl phthalate	BRL		0.49	10	ug/L	125821	1	03/03/2010 15:04	YH
Dimethoate	BRL		6.8	20	ug/L	125821	1	03/03/2010 15:04	YH
Dimethyl phthalate	BRL		0.45	10	ug/L	125821	1	03/03/2010 15:04	YH
Diphenylamine	BRL		0.66	10	ug/L	125821	1	03/03/2010 15:04	YH
Disulfoton	BRL		5.5	10	ug/L	125821	1	03/03/2010 15:04	YH
Ethyl methanesulfonate	BRL		1.4	20	ug/L	125821	1	03/03/2010 15:04	YH
Famphur	BRL		7.6	20	ug/L	125821	1	03/03/2010 15:04	YH
Fluoranthene	BRL		0.75	10	ug/L	125821	1	03/03/2010 15:04	YH
Fluorene	BRL		0.32	10	ug/L	125821	1	03/03/2010 15:04	YH
Hexachlorobenzene	BRL		0.64	10	ug/L	125821	1	03/03/2010 15:04	YH
Hexachlorobutadiene	BRL		1.1	10	ug/L	125821	1	03/03/2010 15:04	YH
Hexachlorocyclopentadiene	BRL		1.1	10	ug/L	125821	1	03/03/2010 15:04	YH
Hexachloroethane	BRL		1.4	10	ug/L	125821	1	03/03/2010 15:04	YH
Hexachloropropene	BRL		4.8	10	ug/L	125821	1	03/03/2010 15:04	YH
Indeno(1,2,3-cd)pyrene	BRL		1.3	10	ug/L	125821	1	03/03/2010 15:04	YH
Isodrin	BRL		5.2	20	ug/L	125821	1	03/03/2010 15:04	YH
Isophorone	BRL		0.59	10	ug/L	125821	1	03/03/2010 15:04	YH
Isosafrole	BRL		6.0	10	ug/L	125821	1	03/03/2010 15:04	YH
Kepone	BRL		9.6	50	ug/L	125821	1	03/03/2010 15:04	YH
Methapyrilene	BRL		2.7	20	ug/L	125821	1	03/03/2010 15:04	YH

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 17-Mar-10

Client:	Pace Analytical Services, Inc.	**Client Sample ID:**	MW-6D
Project:	9264068	**Collection Date:**	2/24/2010 3:10:00 PM
Lab ID:	1003049-002	**Matrix:**	Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
APPENDIXII-SEMIVOLATILE ORGANICS SW8270D (SW3510)									
Methyl methanesulfonate	BRL		1.4	10	ug/L	125821	1	03/03/2010 15:04	YH
Methyl parathion	BRL		7.0	10	ug/L	125821	1	03/03/2010 15:04	YH
N-Nitroso-di-n-butylamine	BRL		1.8	10	ug/L	125821	1	03/03/2010 15:04	YH
N-Nitrosodi-n-propylamine	BRL		1.5	10	ug/L	125821	1	03/03/2010 15:04	YH
N-Nitrosodiethylamine	BRL		5.0	20	ug/L	125821	1	03/03/2010 15:04	YH
N-Nitrosodimethylamine	BRL		1.7	20	ug/L	125821	1	03/03/2010 15:04	YH
N-Nitrosodiphenylamine	BRL		0.42	50	ug/L	125821	1	03/03/2010 15:04	YH
N-Nitrosomethylethylamine	BRL		6.0	10	ug/L	125821	1	03/03/2010 15:04	YH
N-Nitrosopiperidine	BRL		1.2	20	ug/L	125821	1	03/03/2010 15:04	YH
N-Nitrosopyrrolidine	BRL		5.4	40	ug/L	125821	1	03/03/2010 15:04	YH
Naphthalene	BRL		1.0	10	ug/L	125821	1	03/03/2010 15:04	YH
Nitrobenzene	BRL		1.2	10	ug/L	125821	1	03/03/2010 15:04	YH
O,O,O-Triethylphosphorothioate	BRL		3.6	10	ug/L	125821	1	03/03/2010 15:04	YH
o-Toluidine	BRL		3.9	20	ug/L	125821	1	03/03/2010 15:04	YH
p-Dimethylaminoazobenzene	BRL		0.41	10	ug/L	125821	1	03/03/2010 15:04	YH
p-Phenylenediamine	BRL		88	500	ug/L	125821	1	03/03/2010 15:04	YH
Parathion	BRL		6.8	10	ug/L	125821	1	03/03/2010 15:04	YH
Pentachlorobenzene	BRL		0.73	10	ug/L	125821	1	03/03/2010 15:04	YH
Pentachloronitrobenzene	BRL		1.3	20	ug/L	125821	1	03/03/2010 15:04	YH
Pentachlorophenol	BRL		2.7	50	ug/L	125821	1	03/03/2010 15:04	YH
Phenacetin	BRL		1.0	20	ug/L	125821	1	03/03/2010 15:04	YH
Phenanthrene	BRL		0.52	10	ug/L	125821	1	03/03/2010 15:04	YH
Phenol	BRL		1.6	10	ug/L	125821	1	03/03/2010 15:04	YH
Phorate	BRL		6.9	10	ug/L	125821	1	03/03/2010 15:04	YH
Pronamide	BRL		1.1	10	ug/L	125821	1	03/03/2010 15:04	YH
Pyrene	BRL		0.99	10	ug/L	125821	1	03/03/2010 15:04	YH
Safrole	BRL		5.7	20	ug/L	125821	1	03/03/2010 15:04	YH
Sym-Trinitrobenzene	BRL		5.4	10	ug/L	125821	1	03/03/2010 15:04	YH
Thionazin	BRL		6.3	20	ug/L	125821	1	03/03/2010 15:04	YH
Surr: 2,4,6-Tribromophenol	106		0	54.9-149	%REC	125821	1	03/03/2010 15:04	YH
Surr: 2-Fluorobiphenyl	98.2		0	51.5-119	%REC	125821	1	03/03/2010 15:04	YH
Surr: 2-Fluorophenol	58.1		0	25.1-115	%REC	125821	1	03/03/2010 15:04	YH
Surr: 4-Terphenyl-d14	99.3		0	37.5-131	%REC	125821	1	03/03/2010 15:04	YH
Surr: Nitrobenzene-d5	82.5		0	42.5-122	%REC	125821	1	03/03/2010 15:04	YH
Surr: Phenol-d5	37.5		0	10-115	%REC	125821	1	03/03/2010 15:04	YH

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 17-Mar-10

Client:	Pace Analytical Services, Inc.	**Client Sample ID:**	MW-7
Project:	9264068	**Collection Date:**	2/24/2010 2:20:00 PM
Lab ID:	1003049-003	**Matrix:**	Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
CHLORINATED PESTICIDES, TCL SW8081B					**(SW3510B)**				
4,4´-DDD	BRL		0.015	0.10	ug/L	125880	1	03/05/2010 18:54	KD
4,4´-DDE	BRL		0.012	0.10	ug/L	125880	1	03/05/2010 18:54	KD
4,4´-DDT	BRL		0.0097	0.10	ug/L	125880	1	03/05/2010 18:54	KD
Aldrin	BRL		0.0079	0.050	ug/L	125880	1	03/05/2010 18:54	KD
alpha-BHC	BRL		0.0066	0.050	ug/L	125880	1	03/05/2010 18:54	KD
beta-BHC	BRL		0.013	0.050	ug/L	125880	1	03/05/2010 18:54	KD
delta-BHC	BRL		0.0053	0.050	ug/L	125880	1	03/05/2010 18:54	KD
Dieldrin	BRL		0.014	0.10	ug/L	125880	1	03/05/2010 18:54	KD
Endosulfan I	BRL		0.0097	0.050	ug/L	125880	1	03/05/2010 18:54	KD
Endosulfan II	BRL		0.014	0.10	ug/L	125880	1	03/05/2010 18:54	KD
Endosulfan sulfate	BRL		0.017	0.10	ug/L	125880	1	03/05/2010 18:54	KD
Endrin	BRL		0.014	0.10	ug/L	125880	1	03/05/2010 18:54	KD
Endrin aldehyde	BRL		0.031	0.10	ug/L	125880	1	03/05/2010 18:54	KD
Endrin ketone	BRL		0.018	0.10	ug/L	125880	1	03/05/2010 18:54	KD
gamma-BHC	BRL		0.0075	0.050	ug/L	125880	1	03/05/2010 18:54	KD
Heptachlor	BRL		0.010	0.050	ug/L	125880	1	03/05/2010 18:54	KD
Heptachlor epoxide	BRL		0.0079	0.050	ug/L	125880	1	03/05/2010 18:54	KD
Methoxychlor	BRL		0.064	0.50	ug/L	125880	1	03/05/2010 18:54	KD
Toxaphene	BRL		0.17	5.0	ug/L	125880	1	03/05/2010 18:54	KD
Surr: Decachlorobiphenyl	53.4		0	16.1-124	%REC	125880	1	03/05/2010 18:54	KD
Surr: Tetrachloro-m-xylene	90.7		0	16-126	%REC	125880	1	03/05/2010 18:54	KD
CHLORINATED PESTICIDES, APPENDIX II LIST SW8081B					**(SW3510B)**				
Chlordane	BRL		0.068	0.50	ug/L	125880	1	03/05/2010 18:54	KD
Surr: Decachlorobiphenyl	53.4		0	16.1-124	%REC	125880	1	03/05/2010 18:54	KD
Surr: Tetrachloro-m-xylene	90.7		0	16-126	%REC	125880	1	03/05/2010 18:54	KD
CHLORINATED HERBICIDES SW8151A					**(SW3510B)**				
2,4,5-T	BRL		0.70	2.0	ug/L	125879	1	03/05/2010 07:40	AK
2,4,5-TP (Silvex)	BRL		0.66	2.0	ug/L	125879	1	03/05/2010 07:40	AK
2,4-D	BRL		1.2	2.0	ug/L	125879	1	03/05/2010 07:40	AK
Dinoseb	BRL		0.55	5.0	ug/L	125879	1	03/05/2010 07:40	AK
Surr: DCAA	68.4		0	50-143	%REC	125879	1	03/05/2010 07:40	AK
APPENDIXII-SEMIVOLATILE ORGANICS SW8270D					**(SW3510)**				
1,2,4,5-Tetrachlorobenzene	BRL		0.82	10	ug/L	125821	1	03/03/2010 15:30	YH
1,2,4-Trichlorobenzene	BRL		0.95	10	ug/L	125821	1	03/03/2010 15:30	YH
1,2-Dichlorobenzene	BRL		1.3	10	ug/L	125821	1	03/03/2010 15:30	YH
1,3-Dichlorobenzene	BRL		1.3	10	ug/L	125821	1	03/03/2010 15:30	YH

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 17-Mar-10

Client:	Pace Analytical Services, Inc.	**Client Sample ID:**	MW-7
Project:	9264068	**Collection Date:**	2/24/2010 2:20:00 PM
Lab ID:	1003049-003	**Matrix:**	Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
APPENDIXII-SEMIVOLATILE ORGANICS SW8270D (SW3510)									
1,3-Dinitrobenzene	BRL		6.9	20	ug/L	125821	1	03/03/2010 15:30	YH
1,4-Dichlorobenzene	BRL		1.4	10	ug/L	125821	1	03/03/2010 15:30	YH
1,4-Napthoquinone	BRL		6.3	10	ug/L	125821	1	03/03/2010 15:30	YH
1-Naphthylamine	BRL		2.5	10	ug/L	125821	1	03/03/2010 15:30	YH
2,3,4,6-Tetrachlorophenol	BRL		0.80	10	ug/L	125821	1	03/03/2010 15:30	YH
2,4,5-Trichlorophenol	BRL		1.5	10	ug/L	125821	1	03/03/2010 15:30	YH
2,4,6-Trichlorophenol	BRL		1.2	10	ug/L	125821	1	03/03/2010 15:30	YH
2,4-Dichlorophenol	BRL		1.3	10	ug/L	125821	1	03/03/2010 15:30	YH
2,4-Dimethylphenol	BRL		0.54	50	ug/L	125821	1	03/03/2010 15:30	YH
2,4-Dinitrophenol	BRL		3.4	50	ug/L	125821	1	03/03/2010 15:30	YH
2,4-Dinitrotoluene	BRL		1.1	10	ug/L	125821	1	03/03/2010 15:30	YH
2,6-Dichlorophenol	BRL		1.0	10	ug/L	125821	1	03/03/2010 15:30	YH
2,6-Dinitrotoluene	BRL		0.74	10	ug/L	125821	1	03/03/2010 15:30	YH
2-Acetylaminofluorene	BRL		6.9	20	ug/L	125821	1	03/03/2010 15:30	YH
2-Chloronaphthalene	BRL		0.72	10	ug/L	125821	1	03/03/2010 15:30	YH
2-Chlorophenol	BRL		1.7	10	ug/L	125821	1	03/03/2010 15:30	YH
2-Methylnaphthalene	BRL		0.89	10	ug/L	125821	1	03/03/2010 15:30	YH
2-Methylphenol	BRL		0.98	10	ug/L	125821	1	03/03/2010 15:30	YH
2-Naphthylamine	BRL		2.9	10	ug/L	125821	1	03/03/2010 15:30	YH
2-Nitroaniline	BRL		0.63	50	ug/L	125821	1	03/03/2010 15:30	YH
2-Nitrophenol	BRL		0.66	10	ug/L	125821	1	03/03/2010 15:30	YH
3,3´-Dichlorobenzidine	BRL		2.6	20	ug/L	125821	1	03/03/2010 15:30	YH
3,3´-Dimethylbenzidine	BRL		6.3	20	ug/L	125821	1	03/03/2010 15:30	YH
3,4-Methylphenol	BRL		2.4	10	ug/L	125821	1	03/03/2010 15:30	YH
3-Methylcholanthrene	BRL		0.81	10	ug/L	125821	1	03/03/2010 15:30	YH
3-Nitroaniline	BRL		1.1	50	ug/L	125821	1	03/03/2010 15:30	YH
4,6-Dinitro-2-methylphenol	BRL		1.2	50	ug/L	125821	1	03/03/2010 15:30	YH
4-Aminobiphenyl	BRL		2.7	20	ug/L	125821	1	03/03/2010 15:30	YH
4-Bromophenyl phenyl ether	BRL		0.63	10	ug/L	125821	1	03/03/2010 15:30	YH
4-Chloro-3-methylphenol	BRL		1.3	20	ug/L	125821	1	03/03/2010 15:30	YH
4-Chloroaniline	BRL		1.3	20	ug/L	125821	1	03/03/2010 15:30	YH
4-Chlorophenyl phenyl ether	BRL		0.37	10	ug/L	125821	1	03/03/2010 15:30	YH
4-Nitroaniline	BRL		1.4	20	ug/L	125821	1	03/03/2010 15:30	YH
4-Nitrophenol	BRL		5.3	50	ug/L	125821	1	03/03/2010 15:30	YH
5-Nitro-o-toluidine	BRL		6.2	10	ug/L	125821	1	03/03/2010 15:30	YH
7,12-Dimethylbenz(a)anthracene	BRL		6.4	10	ug/L	125821	1	03/03/2010 15:30	YH
Acenaphthene	BRL		0.59	10	ug/L	125821	1	03/03/2010 15:30	YH
Acenaphthylene	BRL		0.36	10	ug/L	125821	1	03/03/2010 15:30	YH
Acetophenone	BRL		2.3	10	ug/L	125821	1	03/03/2010 15:30	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 17-Mar-10

Client:	Pace Analytical Services, Inc.	**Client Sample ID:**	MW-7
Project:	9264068	**Collection Date:**	2/24/2010 2:20:00 PM
Lab ID:	1003049-003	**Matrix:**	Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
APPENDIXII-SEMIVOLATILE ORGANICS SW8270D (SW3510)									
Anthracene	BRL		0.44	10	ug/L	125821	1	03/03/2010 15:30	YH
Benz(a)anthracene	BRL		0.93	10	ug/L	125821	1	03/03/2010 15:30	YH
Benzo(a)pyrene	BRL		1.2	10	ug/L	125821	1	03/03/2010 15:30	YH
Benzo(b)fluoranthene	BRL		0.67	10	ug/L	125821	1	03/03/2010 15:30	YH
Benzo(g,h,i)perylene	BRL		1.0	10	ug/L	125821	1	03/03/2010 15:30	YH
Benzo(k)fluoranthene	BRL		1.4	10	ug/L	125821	1	03/03/2010 15:30	YH
Benzyl alcohol	BRL		1.3	20	ug/L	125821	1	03/03/2010 15:30	YH
Bis(2-chloroethoxy)methane	BRL		0.99	10	ug/L	125821	1	03/03/2010 15:30	YH
Bis(2-chloroethyl)ether	BRL		1.1	10	ug/L	125821	1	03/03/2010 15:30	YH
Bis(2-chloroisopropyl)ether	BRL		1.1	10	ug/L	125821	1	03/03/2010 15:30	YH
Bis(2-ethylhexyl)phthalate	BRL		6.7	20	ug/L	125821	1	03/03/2010 15:30	YH
Butyl benzyl phthalate	BRL		1.1	10	ug/L	125821	1	03/03/2010 15:30	YH
Chlorobenzilate	BRL		6.2	10	ug/L	125821	1	03/03/2010 15:30	YH
Chrysene	BRL		0.68	10	ug/L	125821	1	03/03/2010 15:30	YH
Di-n-butyl phthalate	BRL		0.93	10	ug/L	125821	1	03/03/2010 15:30	YH
Di-n-octyl phthalate	BRL		1.6	10	ug/L	125821	1	03/03/2010 15:30	YH
Diallate	BRL		5.7	10	ug/L	125821	1	03/03/2010 15:30	YH
Dibenz(a,h)anthracene	BRL		1.5	10	ug/L	125821	1	03/03/2010 15:30	YH
Dibenzofuran	BRL		0.29	10	ug/L	125821	1	03/03/2010 15:30	YH
Diethyl phthalate	BRL		0.49	10	ug/L	125821	1	03/03/2010 15:30	YH
Dimethoate	BRL		6.8	20	ug/L	125821	1	03/03/2010 15:30	YH
Dimethyl phthalate	BRL		0.45	10	ug/L	125821	1	03/03/2010 15:30	YH
Diphenylamine	BRL		0.66	10	ug/L	125821	1	03/03/2010 15:30	YH
Disulfoton	BRL		5.5	10	ug/L	125821	1	03/03/2010 15:30	YH
Ethyl methanesulfonate	BRL		1.4	20	ug/L	125821	1	03/03/2010 15:30	YH
Famphur	BRL		7.6	20	ug/L	125821	1	03/03/2010 15:30	YH
Fluoranthene	BRL		0.75	10	ug/L	125821	1	03/03/2010 15:30	YH
Fluorene	BRL		0.32	10	ug/L	125821	1	03/03/2010 15:30	YH
Hexachlorobenzene	BRL		0.64	10	ug/L	125821	1	03/03/2010 15:30	YH
Hexachlorobutadiene	BRL		1.1	10	ug/L	125821	1	03/03/2010 15:30	YH
Hexachlorocyclopentadiene	BRL		1.1	10	ug/L	125821	1	03/03/2010 15:30	YH
Hexachloroethane	BRL		1.4	10	ug/L	125821	1	03/03/2010 15:30	YH
Hexachloropropene	BRL		4.8	10	ug/L	125821	1	03/03/2010 15:30	YH
Indeno(1,2,3-cd)pyrene	BRL		1.3	10	ug/L	125821	1	03/03/2010 15:30	YH
Isodrin	BRL		5.2	20	ug/L	125821	1	03/03/2010 15:30	YH
Isophorone	BRL		0.59	10	ug/L	125821	1	03/03/2010 15:30	YH
Isosafrole	BRL		6.0	10	ug/L	125821	1	03/03/2010 15:30	YH
Kepone	BRL		9.6	50	ug/L	125821	1	03/03/2010 15:30	YH
Methapyrilene	BRL		2.7	20	ug/L	125821	1	03/03/2010 15:30	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 17-Mar-10

Client:	Pace Analytical Services, Inc.	**Client Sample ID:**	MW-7
Project:	9264068	**Collection Date:**	2/24/2010 2:20:00 PM
Lab ID:	1003049-003	**Matrix:**	Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
APPENDIXII-SEMIVOLATILE ORGANICS SW8270D (SW3510)									
Methyl methanesulfonate	BRL		1.4	10	ug/L	125821	1	03/03/2010 15:30	YH
Methyl parathion	BRL		7.0	10	ug/L	125821	1	03/03/2010 15:30	YH
N-Nitroso-di-n-butylamine	BRL		1.8	10	ug/L	125821	1	03/03/2010 15:30	YH
N-Nitrosodi-n-propylamine	BRL		1.5	10	ug/L	125821	1	03/03/2010 15:30	YH
N-Nitrosodiethylamine	BRL		5.0	20	ug/L	125821	1	03/03/2010 15:30	YH
N-Nitrosodimethylamine	BRL		1.7	20	ug/L	125821	1	03/03/2010 15:30	YH
N-Nitrosodiphenylamine	BRL		0.42	50	ug/L	125821	1	03/03/2010 15:30	YH
N-Nitrosomethylethylamine	BRL		6.0	10	ug/L	125821	1	03/03/2010 15:30	YH
N-Nitrosopiperidine	BRL		1.2	20	ug/L	125821	1	03/03/2010 15:30	YH
N-Nitrosopyrrolidine	BRL		5.4	40	ug/L	125821	1	03/03/2010 15:30	YH
Naphthalene	BRL		1.0	10	ug/L	125821	1	03/03/2010 15:30	YH
Nitrobenzene	BRL		1.2	10	ug/L	125821	1	03/03/2010 15:30	YH
O,O,O-Triethylphosphorothioate	BRL		3.6	10	ug/L	125821	1	03/03/2010 15:30	YH
o-Toluidine	BRL		3.9	20	ug/L	125821	1	03/03/2010 15:30	YH
p-Dimethylaminoazobenzene	BRL		0.41	10	ug/L	125821	1	03/03/2010 15:30	YH
p-Phenylenediamine	BRL		88	500	ug/L	125821	1	03/03/2010 15:30	YH
Parathion	BRL		6.8	10	ug/L	125821	1	03/03/2010 15:30	YH
Pentachlorobenzene	BRL		0.73	10	ug/L	125821	1	03/03/2010 15:30	YH
Pentachloronitrobenzene	BRL		1.3	20	ug/L	125821	1	03/03/2010 15:30	YH
Pentachlorophenol	BRL		2.7	50	ug/L	125821	1	03/03/2010 15:30	YH
Phenacetin	BRL		1.0	20	ug/L	125821	1	03/03/2010 15:30	YH
Phenanthrene	BRL		0.52	10	ug/L	125821	1	03/03/2010 15:30	YH
Phenol	BRL		1.6	10	ug/L	125821	1	03/03/2010 15:30	YH
Phorate	BRL		6.9	10	ug/L	125821	1	03/03/2010 15:30	YH
Pronamide	BRL		1.1	10	ug/L	125821	1	03/03/2010 15:30	YH
Pyrene	BRL		0.99	10	ug/L	125821	1	03/03/2010 15:30	YH
Safrole	BRL		5.7	20	ug/L	125821	1	03/03/2010 15:30	YH
Sym-Trinitrobenzene	BRL		5.4	10	ug/L	125821	1	03/03/2010 15:30	YH
Thionazin	BRL		6.3	20	ug/L	125821	1	03/03/2010 15:30	YH
Surr: 2,4,6-Tribromophenol	110		0	54.9-149	%REC	125821	1	03/03/2010 15:30	YH
Surr: 2-Fluorobiphenyl	101		0	51.5-119	%REC	125821	1	03/03/2010 15:30	YH
Surr: 2-Fluorophenol	57.8		0	25.1-115	%REC	125821	1	03/03/2010 15:30	YH
Surr: 4-Terphenyl-d14	100		0	37.5-131	%REC	125821	1	03/03/2010 15:30	YH
Surr: Nitrobenzene-d5	84.9		0	42.5-122	%REC	125821	1	03/03/2010 15:30	YH
Surr: Phenol-d5	38.6		0	10-115	%REC	125821	1	03/03/2010 15:30	YH

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 17-Mar-10

Client:	Pace Analytical Services, Inc.	**Client Sample ID:**	MW-8
Project:	9264068	**Collection Date:**	2/24/2010 1:30:00 PM
Lab ID:	1003049-004	**Matrix:**	Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
CHLORINATED PESTICIDES, TCL SW8081B					**(SW3510B)**				
4,4´-DDD	BRL		0.015	0.10	ug/L	125880	1	03/05/2010 19:05	KD
4,4´-DDE	BRL		0.012	0.10	ug/L	125880	1	03/05/2010 19:05	KD
4,4´-DDT	BRL		0.0097	0.10	ug/L	125880	1	03/05/2010 19:05	KD
Aldrin	BRL		0.0079	0.050	ug/L	125880	1	03/05/2010 19:05	KD
alpha-BHC	BRL		0.0066	0.050	ug/L	125880	1	03/05/2010 19:05	KD
beta-BHC	BRL		0.013	0.050	ug/L	125880	1	03/05/2010 19:05	KD
delta-BHC	BRL		0.0053	0.050	ug/L	125880	1	03/05/2010 19:05	KD
Dieldrin	BRL		0.014	0.10	ug/L	125880	1	03/05/2010 19:05	KD
Endosulfan I	BRL		0.0097	0.050	ug/L	125880	1	03/05/2010 19:05	KD
Endosulfan II	BRL		0.014	0.10	ug/L	125880	1	03/05/2010 19:05	KD
Endosulfan sulfate	BRL		0.017	0.10	ug/L	125880	1	03/05/2010 19:05	KD
Endrin	BRL		0.014	0.10	ug/L	125880	1	03/05/2010 19:05	KD
Endrin aldehyde	BRL		0.031	0.10	ug/L	125880	1	03/05/2010 19:05	KD
Endrin ketone	BRL		0.018	0.10	ug/L	125880	1	03/05/2010 19:05	KD
gamma-BHC	BRL		0.0075	0.050	ug/L	125880	1	03/05/2010 19:05	KD
Heptachlor	BRL		0.010	0.050	ug/L	125880	1	03/05/2010 19:05	KD
Heptachlor epoxide	BRL		0.0079	0.050	ug/L	125880	1	03/05/2010 19:05	KD
Methoxychlor	BRL		0.064	0.50	ug/L	125880	1	03/05/2010 19:05	KD
Toxaphene	BRL		0.17	5.0	ug/L	125880	1	03/05/2010 19:05	KD
Surr: Decachlorobiphenyl	57		0	16.1-124	%REC	125880	1	03/05/2010 19:05	KD
Surr: Tetrachloro-m-xylene	85.6		0	16-126	%REC	125880	1	03/05/2010 19:05	KD
CHLORINATED PESTICIDES, APPENDIX II LIST SW8081B					**(SW3510B)**				
Chlordane	BRL		0.068	0.50	ug/L	125880	1	03/05/2010 19:05	KD
Surr: Decachlorobiphenyl	57		0	16.1-124	%REC	125880	1	03/05/2010 19:05	KD
Surr: Tetrachloro-m-xylene	85.6		0	16-126	%REC	125880	1	03/05/2010 19:05	KD
CHLORINATED HERBICIDES SW8151A					**(SW3510B)**				
2,4,5-T	BRL		0.70	2.0	ug/L	125879	1	03/05/2010 08:37	AK
2,4,5-TP (Silvex)	BRL		0.66	2.0	ug/L	125879	1	03/05/2010 08:37	AK
2,4-D	BRL		1.2	2.0	ug/L	125879	1	03/05/2010 08:37	AK
Dinoseb	BRL		0.55	5.0	ug/L	125879	1	03/05/2010 08:37	AK
Surr: DCAA	71.4		0	50-143	%REC	125879	1	03/05/2010 08:37	AK
APPENDIXII-SEMIVOLATILE ORGANICS SW8270D					**(SW3510)**				
1,2,4,5-Tetrachlorobenzene	BRL		0.82	10	ug/L	125821	1	03/03/2010 15:56	YH
1,2,4-Trichlorobenzene	BRL		0.95	10	ug/L	125821	1	03/03/2010 15:56	YH
1,2-Dichlorobenzene	BRL		1.3	10	ug/L	125821	1	03/03/2010 15:56	YH
1,3-Dichlorobenzene	BRL		1.3	10	ug/L	125821	1	03/03/2010 15:56	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 17-Mar-10

Client:	Pace Analytical Services, Inc.	**Client Sample ID:**	MW-8
Project:	9264068	**Collection Date:**	2/24/2010 1:30:00 PM
Lab ID:	1003049-004	**Matrix:**	Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
APPENDIXII-SEMIVOLATILE ORGANICS SW8270D (SW3510)									
1,3-Dinitrobenzene	BRL		6.9	20	ug/L	125821	1	03/03/2010 15:56	YH
1,4-Dichlorobenzene	BRL		1.4	10	ug/L	125821	1	03/03/2010 15:56	YH
1,4-Napthoquinone	BRL		6.3	10	ug/L	125821	1	03/03/2010 15:56	YH
1-Naphthylamine	BRL		2.5	10	ug/L	125821	1	03/03/2010 15:56	YH
2,3,4,6-Tetrachlorophenol	BRL		0.80	10	ug/L	125821	1	03/03/2010 15:56	YH
2,4,5-Trichlorophenol	BRL		1.5	10	ug/L	125821	1	03/03/2010 15:56	YH
2,4,6-Trichlorophenol	BRL		1.2	10	ug/L	125821	1	03/03/2010 15:56	YH
2,4-Dichlorophenol	BRL		1.3	10	ug/L	125821	1	03/03/2010 15:56	YH
2,4-Dimethylphenol	BRL		0.54	50	ug/L	125821	1	03/03/2010 15:56	YH
2,4-Dinitrophenol	BRL		3.4	50	ug/L	125821	1	03/03/2010 15:56	YH
2,4-Dinitrotoluene	BRL		1.1	10	ug/L	125821	1	03/03/2010 15:56	YH
2,6-Dichlorophenol	BRL		1.0	10	ug/L	125821	1	03/03/2010 15:56	YH
2,6-Dinitrotoluene	BRL		0.74	10	ug/L	125821	1	03/03/2010 15:56	YH
2-Acetylaminofluorene	BRL		6.9	20	ug/L	125821	1	03/03/2010 15:56	YH
2-Chloronaphthalene	BRL		0.72	10	ug/L	125821	1	03/03/2010 15:56	YH
2-Chlorophenol	BRL		1.7	10	ug/L	125821	1	03/03/2010 15:56	YH
2-Methylnaphthalene	BRL		0.89	10	ug/L	125821	1	03/03/2010 15:56	YH
2-Methylphenol	BRL		0.98	10	ug/L	125821	1	03/03/2010 15:56	YH
2-Naphthylamine	BRL		2.9	10	ug/L	125821	1	03/03/2010 15:56	YH
2-Nitroaniline	BRL		0.63	50	ug/L	125821	1	03/03/2010 15:56	YH
2-Nitrophenol	BRL		0.66	10	ug/L	125821	1	03/03/2010 15:56	YH
3,3´-Dichlorobenzidine	BRL		2.6	20	ug/L	125821	1	03/03/2010 15:56	YH
3,3´-Dimethylbenzidine	BRL		6.3	20	ug/L	125821	1	03/03/2010 15:56	YH
3,4-Methylphenol	BRL		2.4	10	ug/L	125821	1	03/03/2010 15:56	YH
3-Methylcholanthrene	BRL		0.81	10	ug/L	125821	1	03/03/2010 15:56	YH
3-Nitroaniline	BRL		1.1	50	ug/L	125821	1	03/03/2010 15:56	YH
4,6-Dinitro-2-methylphenol	BRL		1.2	50	ug/L	125821	1	03/03/2010 15:56	YH
4-Aminobiphenyl	BRL		2.7	20	ug/L	125821	1	03/03/2010 15:56	YH
4-Bromophenyl phenyl ether	BRL		0.63	10	ug/L	125821	1	03/03/2010 15:56	YH
4-Chloro-3-methylphenol	BRL		1.3	20	ug/L	125821	1	03/03/2010 15:56	YH
4-Chloroaniline	BRL		1.3	20	ug/L	125821	1	03/03/2010 15:56	YH
4-Chlorophenyl phenyl ether	BRL		0.37	10	ug/L	125821	1	03/03/2010 15:56	YH
4-Nitroaniline	BRL		1.4	20	ug/L	125821	1	03/03/2010 15:56	YH
4-Nitrophenol	BRL		5.3	50	ug/L	125821	1	03/03/2010 15:56	YH
5-Nitro-o-toluidine	BRL		6.2	10	ug/L	125821	1	03/03/2010 15:56	YH
7,12-Dimethylbenz(a)anthracene	BRL		6.4	10	ug/L	125821	1	03/03/2010 15:56	YH
Acenaphthene	BRL		0.59	10	ug/L	125821	1	03/03/2010 15:56	YH
Acenaphthylene	BRL		0.36	10	ug/L	125821	1	03/03/2010 15:56	YH
Acetophenone	BRL		2.3	10	ug/L	125821	1	03/03/2010 15:56	YH

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 17-Mar-10

Client:	Pace Analytical Services, Inc.	**Client Sample ID:**	MW-8
Project:	9264068	**Collection Date:**	2/24/2010 1:30:00 PM
Lab ID:	1003049-004	**Matrix:**	Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
APPENDIXII-SEMIVOLATILE ORGANICS SW8270D (SW3510)									
Anthracene	BRL		0.44	10	ug/L	125821	1	03/03/2010 15:56	YH
Benz(a)anthracene	BRL		0.93	10	ug/L	125821	1	03/03/2010 15:56	YH
Benzo(a)pyrene	BRL		1.2	10	ug/L	125821	1	03/03/2010 15:56	YH
Benzo(b)fluoranthene	BRL		0.67	10	ug/L	125821	1	03/03/2010 15:56	YH
Benzo(g,h,i)perylene	BRL		1.0	10	ug/L	125821	1	03/03/2010 15:56	YH
Benzo(k)fluoranthene	BRL		1.4	10	ug/L	125821	1	03/03/2010 15:56	YH
Benzyl alcohol	BRL		1.3	20	ug/L	125821	1	03/03/2010 15:56	YH
Bis(2-chloroethoxy)methane	BRL		0.99	10	ug/L	125821	1	03/03/2010 15:56	YH
Bis(2-chloroethyl)ether	BRL		1.1	10	ug/L	125821	1	03/03/2010 15:56	YH
Bis(2-chloroisopropyl)ether	BRL		1.1	10	ug/L	125821	1	03/03/2010 15:56	YH
Bis(2-ethylhexyl)phthalate	BRL		6.7	20	ug/L	125821	1	03/03/2010 15:56	YH
Butyl benzyl phthalate	BRL		1.1	10	ug/L	125821	1	03/03/2010 15:56	YH
Chlorobenzilate	BRL		6.2	10	ug/L	125821	1	03/03/2010 15:56	YH
Chrysene	BRL		0.68	10	ug/L	125821	1	03/03/2010 15:56	YH
Di-n-butyl phthalate	BRL		0.93	10	ug/L	125821	1	03/03/2010 15:56	YH
Di-n-octyl phthalate	BRL		1.6	10	ug/L	125821	1	03/03/2010 15:56	YH
Diallate	BRL		5.7	10	ug/L	125821	1	03/03/2010 15:56	YH
Dibenz(a,h)anthracene	BRL		1.5	10	ug/L	125821	1	03/03/2010 15:56	YH
Dibenzofuran	BRL		0.29	10	ug/L	125821	1	03/03/2010 15:56	YH
Diethyl phthalate	BRL		0.49	10	ug/L	125821	1	03/03/2010 15:56	YH
Dimethoate	BRL		6.8	20	ug/L	125821	1	03/03/2010 15:56	YH
Dimethyl phthalate	BRL		0.45	10	ug/L	125821	1	03/03/2010 15:56	YH
Diphenylamine	BRL		0.66	10	ug/L	125821	1	03/03/2010 15:56	YH
Disulfoton	BRL		5.5	10	ug/L	125821	1	03/03/2010 15:56	YH
Ethyl methanesulfonate	BRL		1.4	20	ug/L	125821	1	03/03/2010 15:56	YH
Famphur	BRL		7.6	20	ug/L	125821	1	03/03/2010 15:56	YH
Fluoranthene	BRL		0.75	10	ug/L	125821	1	03/03/2010 15:56	YH
Fluorene	BRL		0.32	10	ug/L	125821	1	03/03/2010 15:56	YH
Hexachlorobenzene	BRL		0.64	10	ug/L	125821	1	03/03/2010 15:56	YH
Hexachlorobutadiene	BRL		1.1	10	ug/L	125821	1	03/03/2010 15:56	YH
Hexachlorocyclopentadiene	BRL		1.1	10	ug/L	125821	1	03/03/2010 15:56	YH
Hexachloroethane	BRL		1.4	10	ug/L	125821	1	03/03/2010 15:56	YH
Hexachloropropene	BRL		4.8	10	ug/L	125821	1	03/03/2010 15:56	YH
Indeno(1,2,3-cd)pyrene	BRL		1.3	10	ug/L	125821	1	03/03/2010 15:56	YH
Isodrin	BRL		5.2	20	ug/L	125821	1	03/03/2010 15:56	YH
Isophorone	BRL		0.59	10	ug/L	125821	1	03/03/2010 15:56	YH
Isosafrole	BRL		6.0	10	ug/L	125821	1	03/03/2010 15:56	YH
Kepone	BRL		9.6	50	ug/L	125821	1	03/03/2010 15:56	YH
Methapyrilene	BRL		2.7	20	ug/L	125821	1	03/03/2010 15:56	YH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 17-Mar-10

Client:	Pace Analytical Services, Inc.	**Client Sample ID:**	MW-8
Project:	9264068	**Collection Date:**	2/24/2010 1:30:00 PM
Lab ID:	1003049-004	**Matrix:**	Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
APPENDIXII-SEMIVOLATILE ORGANICS SW8270D (SW3510)									
Methyl methanesulfonate	BRL		1.4	10	ug/L	125821	1	03/03/2010 15:56	YH
Methyl parathion	BRL		7.0	10	ug/L	125821	1	03/03/2010 15:56	YH
N-Nitroso-di-n-butylamine	BRL		1.8	10	ug/L	125821	1	03/03/2010 15:56	YH
N-Nitrosodi-n-propylamine	BRL		1.5	10	ug/L	125821	1	03/03/2010 15:56	YH
N-Nitrosodiethylamine	BRL		5.0	20	ug/L	125821	1	03/03/2010 15:56	YH
N-Nitrosodimethylamine	BRL		1.7	20	ug/L	125821	1	03/03/2010 15:56	YH
N-Nitrosodiphenylamine	BRL		0.42	50	ug/L	125821	1	03/03/2010 15:56	YH
N-Nitrosomethylethylamine	BRL		6.0	10	ug/L	125821	1	03/03/2010 15:56	YH
N-Nitrosopiperidine	BRL		1.2	20	ug/L	125821	1	03/03/2010 15:56	YH
N-Nitrosopyrrolidine	BRL		5.4	40	ug/L	125821	1	03/03/2010 15:56	YH
Naphthalene	BRL		1.0	10	ug/L	125821	1	03/03/2010 15:56	YH
Nitrobenzene	BRL		1.2	10	ug/L	125821	1	03/03/2010 15:56	YH
O,O,O-Triethylphosphorothioate	BRL		3.6	10	ug/L	125821	1	03/03/2010 15:56	YH
o-Toluidine	BRL		3.9	20	ug/L	125821	1	03/03/2010 15:56	YH
p-Dimethylaminoazobenzene	BRL		0.41	10	ug/L	125821	1	03/03/2010 15:56	YH
p-Phenylenediamine	BRL		88	500	ug/L	125821	1	03/03/2010 15:56	YH
Parathion	BRL		6.8	10	ug/L	125821	1	03/03/2010 15:56	YH
Pentachlorobenzene	BRL		0.73	10	ug/L	125821	1	03/03/2010 15:56	YH
Pentachloronitrobenzene	BRL		1.3	20	ug/L	125821	1	03/03/2010 15:56	YH
Pentachlorophenol	BRL		2.7	50	ug/L	125821	1	03/03/2010 15:56	YH
Phenacetin	BRL		1.0	20	ug/L	125821	1	03/03/2010 15:56	YH
Phenanthrene	BRL		0.52	10	ug/L	125821	1	03/03/2010 15:56	YH
Phenol	BRL		1.6	10	ug/L	125821	1	03/03/2010 15:56	YH
Phorate	BRL		6.9	10	ug/L	125821	1	03/03/2010 15:56	YH
Pronamide	BRL		1.1	10	ug/L	125821	1	03/03/2010 15:56	YH
Pyrene	BRL		0.99	10	ug/L	125821	1	03/03/2010 15:56	YH
Safrole	BRL		5.7	20	ug/L	125821	1	03/03/2010 15:56	YH
Sym-Trinitrobenzene	BRL		5.4	10	ug/L	125821	1	03/03/2010 15:56	YH
Thionazin	BRL		6.3	20	ug/L	125821	1	03/03/2010 15:56	YH
Surr: 2,4,6-Tribromophenol	111		0	54.9-149	%REC	125821	1	03/03/2010 15:56	YH
Surr: 2-Fluorobiphenyl	108		0	51.5-119	%REC	125821	1	03/03/2010 15:56	YH
Surr: 2-Fluorophenol	66.5		0	25.1-115	%REC	125821	1	03/03/2010 15:56	YH
Surr: 4-Terphenyl-d14	95.3		0	37.5-131	%REC	125821	1	03/03/2010 15:56	YH
Surr: Nitrobenzene-d5	94.5		0	42.5-122	%REC	125821	1	03/03/2010 15:56	YH
Surr: Phenol-d5	43.1		0	10-115	%REC	125821	1	03/03/2010 15:56	YH

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client PHCE Work Order Number 1003049

Checklist completed by mfue 3/1/10
Signature Date

Carrier name: FedEx ✓ UPS __ Courier __ Client __ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? (4°C±2)* Yes ✓ No __

Cooler #1 3.3' Cooler #2 2.9' Cooler #3 3.0 Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted ✓ Yes __ No __

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by MJ

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

Analytical Environmental Services, Inc

Date: 10-Mar-10

Client: Pace Analytical Services, Inc.
Project: 9264068
Lab Order: 1003049

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1003049-001A	MW-6S	2/24/2010 4:10:00PM	Aqueous	APPENDIX II-SEMIVOLATILE ORGANICS		03/02/2010	03/03/2010
1003049-001A	MW-6S	2/24/2010 4:10:00PM	Aqueous	CHLORINATED HERBICIDES		03/03/2010	03/05/2010
1003049-001A	MW-6S	2/24/2010 4:10:00PM	Aqueous	TCL-CHLORINATED PESTICIDES		03/03/2010	03/05/2010
1003049-002A	MW-6D	2/24/2010 3:10:00PM	Aqueous	APPENDIX II-SEMIVOLATILE ORGANICS		03/02/2010	03/03/2010
1003049-002A	MW-6D	2/24/2010 3:10:00PM	Aqueous	CHLORINATED HERBICIDES		03/03/2010	03/05/2010
1003049-002A	MW-6D	2/24/2010 3:10:00PM	Aqueous	TCL-CHLORINATED PESTICIDES		03/03/2010	03/05/2010
1003049-003A	MW-7	2/24/2010 2:20:00PM	Aqueous	APPENDIX II-SEMIVOLATILE ORGANICS		03/02/2010	03/03/2010
1003049-003A	MW-7	2/24/2010 2:20:00PM	Aqueous	CHLORINATED HERBICIDES		03/03/2010	03/05/2010
1003049-003A	MW-7	2/24/2010 2:20:00PM	Aqueous	TCL-CHLORINATED PESTICIDES		03/03/2010	03/05/2010
1003049-004A	MW-8	2/24/2010 1:30:00PM	Aqueous	APPENDIX II-SEMIVOLATILE ORGANICS		03/02/2010	03/03/2010
1003049-004A	MW-8	2/24/2010 1:30:00PM	Aqueous	CHLORINATED HERBICIDES		03/03/2010	03/05/2010
1003049-004A	MW-8	2/24/2010 1:30:00PM	Aqueous	TCL-CHLORINATED PESTICIDES		03/03/2010	03/05/2010

CLIENT: Pace Analytical Services, Inc.
Work Order: 1003049
Project: 9264068

ANALYTICAL QC SUMMARY REPORT

TestCode: CHLORINATED PESTICIDES, APPENDIX II LIST SW

Sample ID: **MB-125880** SampType: **MBLK** Batch ID: **125880** Units: **ug/L** Prep Date: **3/3/2010** RunNo: **167053**
Client ID: TestCode: **CHLORINATED PESTICIDES, APPENDIX II LIST SW8081B** Analysis Date: **3/5/2010** SeqNo: **3468198**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	BRL	0.10	0	0	0	0	0	0	0		
4,4´-DDE	BRL	0.10	0	0	0	0	0	0	0		
4,4´-DDT	BRL	0.10	0	0	0	0	0	0	0		
Aldrin	BRL	0.050	0	0	0	0	0	0	0		
alpha-BHC	BRL	0.050	0	0	0	0	0	0	0		
beta-BHC	BRL	0.050	0	0	0	0	0	0	0		
Chlordane	BRL	0.50	0	0	0	0	0	0	0		
delta-BHC	BRL	0.050	0	0	0	0	0	0	0		
Dieldrin	BRL	0.10	0	0	0	0	0	0	0		
Endosulfan I	BRL	0.050	0	0	0	0	0	0	0		
Endosulfan II	BRL	0.10	0	0	0	0	0	0	0		
Endosulfan sulfate	BRL	0.10	0	0	0	0	0	0	0		
Endrin	BRL	0.10	0	0	0	0	0	0	0		
Endrin aldehyde	BRL	0.10	0	0	0	0	0	0	0		
gamma-BHC	BRL	0.050	0	0	0	0	0	0	0		
Heptachlor	BRL	0.050	0	0	0	0	0	0	0		
Heptachlor epoxide	BRL	0.050	0	0	0	0	0	0	0		
Methoxychlor	BRL	0.50	0	0	0	0	0	0	0		
Toxaphene	BRL	3.0	0	0	0	0	0	0	0		
Surr: Decachlorobiphenyl	0.3967	0	0.5	0	79.3	16.1	124	0	0		
Surr: Tetrachloro-m-xylene	0.4329	0	0.5	0	86.6	16	126	0	0		

Sample ID: **LCS-125880** SampType: **LCS** Batch ID: **125880** Units: **ug/L** Prep Date: **3/3/2010** RunNo: **167053**
Client ID: TestCode: **CHLORINATED PESTICIDES, APPENDIX II LIST SW8081B** Analysis Date: **3/5/2010** SeqNo: **3468208**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
BRL	Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

CLIENT: Pace Analytical Services, Inc.
Work Order: 1003049
Project: 9264068

ANALYTICAL QC SUMMARY REPORT

TestCode: CHLORINATED PESTICIDES, APPENDIX II LIST SW

Sample ID: **LCS-125880** SampType: **LCS** Batch ID: **125880** Units: **ug/L** Prep Date: **3/3/2010** RunNo: **167053**
Client ID: TestCode: **CHLORINATED PESTICIDES, APPENDIX II LIST SW8081B** Analysis Date: **3/5/2010** SeqNo: **3468208**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDT	1.256	0.10	1	0	126	57.2	133	0	0		
Aldrin	1.163	0.050	1	0	116	43.2	131	0	0		
Dieldrin	1.35	0.10	1	0	135	60.4	138	0	0		
Endrin	1.337	0.10	1	0	134	59.6	135	0	0		
gamma-BHC	1.337	0.050	1	0	134	48.6	138	0	0		
Heptachlor	1.192	0.050	1	0	119	46.6	129	0	0		
Surr: Decachlorobiphenyl	0.3782	0	0.5	0	75.6	16.1	124	0	0		
Surr: Tetrachloro-m-xylene	0.4704	0	0.5	0	94.1	16	126	0	0		

Sample ID: **1002L21-001EMS** SampType: **MS** Batch ID: **125880** Units: **ug/L** Prep Date: **3/3/2010** RunNo: **167053**
Client ID: TestCode: **CHLORINATED PESTICIDES, APPENDIX II LIST SW8081B** Analysis Date: **3/5/2010** SeqNo: **3468217**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDT	0.7967	0.10	1	0	79.7	18.4	148	0	0		
Aldrin	0.7535	0.050	1	0	75.4	25.5	135	0	0		
Dieldrin	1.144	0.10	1	0	114	40.6	148	0	0		
Endrin	1.283	0.10	1	0	128	45.1	145	0	0		
gamma-BHC	1.173	0.050	1	0	117	41.2	147	0	0		
Heptachlor	0.9618	0.050	1	0	96.2	34.8	135	0	0		
Surr: Decachlorobiphenyl	0.1705	0	0.5	0	34.1	16.1	124	0	0		
Surr: Tetrachloro-m-xylene	0.4702	0	0.5	0	94	16	126	0	0		

Sample ID: **1002L21-001EMSD** SampType: **MSD** Batch ID: **125880** Units: **ug/L** Prep Date: **3/3/2010** RunNo: **167053**
Client ID: TestCode: **CHLORINATED PESTICIDES, APPENDIX II LIST SW8081B** Analysis Date: **3/5/2010** SeqNo: **3468218**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDT	0.8445	0.10	1	0	84.5	18.4	148	0.7967	5.82	24.2	
Aldrin	0.8098	0.050	1	0	81	25.5	135	0.7535	7.20	28	

Qualifiers:

<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
BRL	Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

CLIENT: Pace Analytical Services, Inc.
Work Order: 1003049
Project: 9264068

ANALYTICAL QC SUMMARY REPORT

TestCode: CHLORINATED PESTICIDES, APPENDIX II LIST SW

Sample ID: **1002L21-001EMSD** SampType: **MSD** Batch ID: **125880** Units: **ug/L** Prep Date: **3/3/2010** RunNo: **167053**
Client ID: TestCode: **CHLORINATED PESTICIDES, APPENDIX II LIST SW8081B** Analysis Date: **3/5/2010** SeqNo: **3468218**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dieldrin	1.161	0.10	1	0	116	40.6	148	1.144	1.47	20.5	
Endrin	1.306	0.10	1	0	131	45.1	145	1.283	1.78	20.3	
gamma-BHC	1.234	0.050	1	0	123	41.2	147	1.173	5.08	26.5	
Heptachlor	1.006	0.050	1	0	101	34.8	135	0.9618	4.52	31.3	
Surr: Decachlorobiphenyl	0.1852	0	0.5	0	37	16.1	124	0.1705	0	0	
Surr: Tetrachloro-m-xylene	0.4531	0	0.5	0	90.6	16	126	0.4702	0	0	

Qualifiers:

<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
BRL	Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

CLIENT: Pace Analytical Services, Inc.
Work Order: 1003049
Project: 9264068

ANALYTICAL QC SUMMARY REPORT

TestCode: CHLORINATED PESTICIDES, TCL SW8081B

Sample ID: **MB-125880** SampType: **MBLK** Batch ID: **125880** Units: **ug/L** Prep Date: **3/3/2010** RunNo: **167053**
Client ID: TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** Analysis Date: **3/5/2010** SeqNo: **3462970**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	BRL	0.10	0	0	0	0	0	0	0		
4,4´-DDE	BRL	0.10	0	0	0	0	0	0	0		
4,4´-DDT	BRL	0.10	0	0	0	0	0	0	0		
Aldrin	BRL	0.050	0	0	0	0	0	0	0		
alpha-BHC	BRL	0.050	0	0	0	0	0	0	0		
beta-BHC	BRL	0.050	0	0	0	0	0	0	0		
delta-BHC	BRL	0.050	0	0	0	0	0	0	0		
Dieldrin	BRL	0.10	0	0	0	0	0	0	0		
Endosulfan I	BRL	0.050	0	0	0	0	0	0	0		
Endosulfan II	BRL	0.10	0	0	0	0	0	0	0		
Endosulfan sulfate	BRL	0.10	0	0	0	0	0	0	0		
Endrin	BRL	0.10	0	0	0	0	0	0	0		
Endrin aldehyde	BRL	0.10	0	0	0	0	0	0	0		
Endrin ketone	BRL	0.10	0	0	0	0	0	0	0		
gamma-BHC	BRL	0.050	0	0	0	0	0	0	0		
Heptachlor	BRL	0.050	0	0	0	0	0	0	0		
Heptachlor epoxide	BRL	0.050	0	0	0	0	0	0	0		
Methoxychlor	BRL	0.50	0	0	0	0	0	0	0		
Toxaphene	BRL	5.0	0	0	0	0	0	0	0		
Surr: Decachlorobiphenyl	0.3967	0	0.5	0	79.3	16.1	124	0	0		
Surr: Tetrachloro-m-xylene	0.4329	0	0.5	0	86.6	16	126	0	0		

Sample ID: **LCS-125880** SampType: **LCS** Batch ID: **125880** Units: **ug/L** Prep Date: **3/3/2010** RunNo: **167053**
Client ID: TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** Analysis Date: **3/5/2010** SeqNo: **3462971**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDT	1.256	0.10	1	0	126	57.2	133	0	0		
Aldrin	1.163	0.050	1	0	116	43.2	131	0	0		

Qualifiers:

<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
BRL	Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

CLIENT: Pace Analytical Services, Inc.
Work Order: 1003049
Project: 9264068

ANALYTICAL QC SUMMARY REPORT

TestCode: CHLORINATED PESTICIDES, TCL SW8081B

Sample ID: **LCS-125880** SampType: **LCS** Batch ID: **125880** Units: **ug/L** Prep Date: **3/3/2010** RunNo: **167053**
Client ID: TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** Analysis Date: **3/5/2010** SeqNo: **3462971**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dieldrin	1.35	0.10	1	0	135	60.4	138	0	0		
Endrin	1.337	0.10	1	0	134	59.6	135	0	0		
gamma-BHC	1.337	0.050	1	0	134	48.6	138	0	0		
Heptachlor	1.192	0.050	1	0	119	46.6	129	0	0		
Surr: Decachlorobiphenyl	0.3782	0	0.5	0	75.6	16.1	124	0	0		
Surr: Tetrachloro-m-xylene	0.4704	0	0.5	0	94.1	16	126	0	0		

Sample ID: **1002L21-001EMS** SampType: **MS** Batch ID: **125880** Units: **ug/L** Prep Date: **3/3/2010** RunNo: **167053**
Client ID: TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** Analysis Date: **3/5/2010** SeqNo: **3462973**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDT	0.7967	0.10	1	0	79.7	18.4	148	0	0		
Aldrin	0.7535	0.050	1	0	75.4	25.5	135	0	0		
Dieldrin	1.144	0.10	1	0	114	40.6	148	0	0		
Endrin	1.283	0.10	1	0	128	45.1	145	0	0		
gamma-BHC	1.173	0.050	1	0	117	41.2	147	0	0		
Heptachlor	0.9618	0.050	1	0	96.2	34.8	135	0	0		
Surr: Decachlorobiphenyl	0.1705	0	0.5	0	34.1	16.1	124	0	0		
Surr: Tetrachloro-m-xylene	0.4702	0	0.5	0	94	16	126	0	0		

Sample ID: **1002L21-001EMSD** SampType: **MSD** Batch ID: **125880** Units: **ug/L** Prep Date: **3/3/2010** RunNo: **167053**
Client ID: TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** Analysis Date: **3/5/2010** SeqNo: **3462974**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDT	0.8445	0.10	1	0	84.5	18.4	148	0.7967	5.82	24.2	
Aldrin	0.8098	0.050	1	0	81	25.5	135	0.7535	7.20	28	
Dieldrin	1.161	0.10	1	0	116	40.6	148	1.144	1.47	20.5	
Endrin	1.306	0.10	1	0	131	45.1	145	1.283	1.78	20.3	

Qualifiers:

<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
BRL	Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

CLIENT: Pace Analytical Services, Inc.
Work Order: 1003049
Project: 9264068

ANALYTICAL QC SUMMARY REPORT

TestCode: CHLORINATED PESTICIDES, TCL SW8081B

Sample ID: **1002L21-001EMSD** SampType: **MSD** Batch ID: **125880** Units: **ug/L** Prep Date: **3/3/2010** RunNo: **167053**
Client ID: TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** Analysis Date: **3/5/2010** SeqNo: **3462974**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
gamma-BHC	1.234	0.050	1	0	123	41.2	147	1.173	5.08	26.5	
Heptachlor	1.006	0.050	1	0	101	34.8	135	0.9618	4.52	31.3	
Surr: Decachlorobiphenyl	0.1852	0	0.5	0	37	16.1	124	0.1705	0	0	
Surr: Tetrachloro-m-xylene	0.4531	0	0.5	0	90.6	16	126	0.4702	0	0	

Qualifiers:

<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
BRL	Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

CLIENT: Pace Analytical Services, Inc.
Work Order: 1003049
Project: 9264068

ANALYTICAL QC SUMMARY REPORT

TestCode: CHLORINATED HERBICIDES SW8151A

Sample ID: **MB-125879** SampType: **MBLK** Batch ID: **125879** Units: **ug/L** Prep Date: **3/3/2010** RunNo: **166894**
Client ID: TestCode: **CHLORINATED HERBICIDES SW8151A** Analysis Date: **3/5/2010** SeqNo: **3459550**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4,5-T	BRL	2.0	0	0	0	0	0	0	0		
2,4,5-TP (Silvex)	BRL	2.0	0	0	0	0	0	0	0		
2,4-D	BRL	2.0	0	0	0	0	0	0	0		
Dinoseb	BRL	5.0	0	0	0	0	0	0	0		
Surr: DCAA	4.124	0	5	0	82.5	50	143	0	0		

Sample ID: **LCS-125879** SampType: **LCS** Batch ID: **125879** Units: **ug/L** Prep Date: **3/3/2010** RunNo: **166894**
Client ID: TestCode: **CHLORINATED HERBICIDES SW8151A** Analysis Date: **3/5/2010** SeqNo: **3459552**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4,5-T	3.678	2.0	5	0	73.6	62.7	125	0	0		
2,4,5-TP (Silvex)	3.933	2.0	5	0	78.7	64.2	124	0	0		
2,4-D	4.147	2.0	5	0	82.9	58.6	131	0	0		
Surr: DCAA	4.081	0	5	0	81.6	50	143	0	0		

Sample ID: **1003051-001AMS** SampType: **MS** Batch ID: **125879** Units: **ug/L** Prep Date: **3/3/2010** RunNo: **166894**
Client ID: TestCode: **CHLORINATED HERBICIDES SW8151A** Analysis Date: **3/5/2010** SeqNo: **3459556**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4,5-T	3.375	2.0	5	0	67.5	49.2	135	0	0		
2,4,5-TP (Silvex)	3.641	2.0	5	0	72.8	58.8	133	0	0		
2,4-D	3.892	2.0	5	0	77.8	48.9	141	0	0		
Surr: DCAA	3.154	0	5	0	63.1	50	143	0	0		

Qualifiers:

<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
BRL	Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

CLIENT: Pace Analytical Services, Inc.
Work Order: 1003049
Project: 9264068

ANALYTICAL QC SUMMARY REPORT

TestCode: CHLORINATED HERBICIDES SW8151A

Sample ID: **1003051-001AMSD** SampType: **MSD** Batch ID: **125879** Units: **ug/L** Prep Date: **3/3/2010** RunNo: **166894**
Client ID: TestCode: **CHLORINATED HERBICIDES SW8151A** Analysis Date: **3/5/2010** SeqNo: **3459558**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4,5-T	4.32	2.0	5	0	86.4	49.2	135	3.375	24.6	25.4	
2,4,5-TP (Silvex)	4.763	2.0	5	0	95.3	58.8	133	3.641	26.7	26.7	
2,4-D	4.876	2.0	5	0	97.5	48.9	141	3.892	22.4	37.7	
Surr: DCAA	4.084	0	5	0	81.7	50	143	3.154	0	0	

Qualifiers:

<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
BRL	Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

CLIENT: Pace Analytical Services, Inc.
Work Order: 1003049
Project: 9264068

ANALYTICAL QC SUMMARY REPORT

TestCode: APPENDIXII-SEMIVOLATILE ORGANICS SW8270D

Sample ID: **MB-125821** SampType: **MBLK** Batch ID: **125821** Units: **ug/L** Prep Date: **3/2/2010** RunNo: **166745**
Client ID: TestCode: **APPENDIXII-SEMIVOLATILE ORGANICS SW8270D** Analysis Date: **3/3/2010** SeqNo: **3456167**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4,5-Tetrachlorobenzene	BRL	10	0	0	0	0	0	0	0		
1,2,4-Trichlorobenzene	BRL	10	0	0	0	0	0	0	0		
1,2-Dichlorobenzene	BRL	10	0	0	0	0	0	0	0		
1,3-Dichlorobenzene	BRL	10	0	0	0	0	0	0	0		
1,3-Dinitrobenzene	BRL	20	0	0	0	0	0	0	0		
1,4-Dichlorobenzene	BRL	10	0	0	0	0	0	0	0		
1,4-Napthoquinone	BRL	10	0	0	0	0	0	0	0		
1-Naphthylamine	BRL	10	0	0	0	0	0	0	0		
2,3,4,6-Tetrachlorophenol	BRL	10	0	0	0	0	0	0	0		
2,4,5-Trichlorophenol	BRL	10	0	0	0	0	0	0	0		
2,4,6-Trichlorophenol	BRL	10	0	0	0	0	0	0	0		
2,4-Dichlorophenol	BRL	10	0	0	0	0	0	0	0		
2,4-Dimethylphenol	BRL	50	0	0	0	0	0	0	0		
2,4-Dinitrophenol	BRL	50	0	0	0	0	0	0	0		
2,4-Dinitrotoluene	BRL	10	0	0	0	0	0	0	0		
2,6-Dichlorophenol	BRL	10	0	0	0	0	0	0	0		
2,6-Dinitrotoluene	BRL	10	0	0	0	0	0	0	0		
2-Acetylaminofluorene	BRL	20	0	0	0	0	0	0	0		
2-Chloronaphthalene	BRL	10	0	0	0	0	0	0	0		
2-Chlorophenol	BRL	10	0	0	0	0	0	0	0		
2-Methylnaphthalene	BRL	10	0	0	0	0	0	0	0		
2-Methylphenol	BRL	10	0	0	0	0	0	0	0		
2-Naphthylamine	BRL	10	0	0	0	0	0	0	0		
2-Nitroaniline	BRL	50	0	0	0	0	0	0	0		
2-Nitrophenol	BRL	10	0	0	0	0	0	0	0		
3,3´-Dichlorobenzidine	BRL	20	0	0	0	0	0	0	0		
3,3´-Dimethylbenzidine	BRL	20	0	0	0	0	0	0	0		
3,4-Methylphenol	BRL	10	0	0	0	0	0	0	0		

Qualifiers:

<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
BRL	Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

CLIENT: Pace Analytical Services, Inc.
Work Order: 1003049
Project: 9264068

ANALYTICAL QC SUMMARY REPORT

TestCode: APPENDIXII-SEMIVOLATILE ORGANICS SW8270D

Sample ID: **MB-125821** SampType: **MBLK** Batch ID: **125821** Units: **ug/L** Prep Date: **3/2/2010** RunNo: **166745**
Client ID: TestCode: **APPENDIXII-SEMIVOLATILE ORGANICS SW8270D** Analysis Date: **3/3/2010** SeqNo: **3456167**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
3-Methylcholanthrene	BRL	10	0	0	0	0	0	0	0		
3-Nitroaniline	BRL	50	0	0	0	0	0	0	0		
4,6-Dinitro-2-methylphenol	BRL	50	0	0	0	0	0	0	0		
4-Aminobiphenyl	BRL	20	0	0	0	0	0	0	0		
4-Bromophenyl phenyl ether	BRL	10	0	0	0	0	0	0	0		
4-Chloro-3-methylphenol	BRL	20	0	0	0	0	0	0	0		
4-Chloroaniline	BRL	20	0	0	0	0	0	0	0		
4-Chlorophenyl phenyl ether	BRL	10	0	0	0	0	0	0	0		
4-Nitroaniline	BRL	20	0	0	0	0	0	0	0		
4-Nitrophenol	BRL	50	0	0	0	0	0	0	0		
5-Nitro-o-toluidine	BRL	10	0	0	0	0	0	0	0		
7,12-Dimethylbenz(a)anthracene	BRL	10	0	0	0	0	0	0	0		
Acenaphthene	BRL	10	0	0	0	0	0	0	0		
Acenaphthylene	BRL	10	0	0	0	0	0	0	0		
Acetophenone	BRL	10	0	0	0	0	0	0	0		
Anthracene	BRL	10	0	0	0	0	0	0	0		
Benz(a)anthracene	BRL	10	0	0	0	0	0	0	0		
Benzo(a)pyrene	BRL	10	0	0	0	0	0	0	0		
Benzo(b)fluoranthene	BRL	10	0	0	0	0	0	0	0		
Benzo(g,h,i)perylene	BRL	10	0	0	0	0	0	0	0		
Benzo(k)fluoranthene	BRL	10	0	0	0	0	0	0	0		
Benzyl alcohol	BRL	20	0	0	0	0	0	0	0		
Bis(2-chloroethoxy)methane	BRL	10	0	0	0	0	0	0	0		
Bis(2-chloroethyl)ether	BRL	10	0	0	0	0	0	0	0		
Bis(2-chloroisopropyl)ether	BRL	10	0	0	0	0	0	0	0		
Bis(2-ethylhexyl)phthalate	BRL	20	0	0	0	0	0	0	0		
Butyl benzyl phthalate	BRL	10	0	0	0	0	0	0	0		
Chlorobenzilate	BRL	10	0	0	0	0	0	0	0		

Qualifiers:

<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
BRL	Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

CLIENT: Pace Analytical Services, Inc.
Work Order: 1003049
Project: 9264068

ANALYTICAL QC SUMMARY REPORT

TestCode: APPENDIXII-SEMIVOLATILE ORGANICS SW8270D

Sample ID: **MB-125821** SampType: **MBLK** Batch ID: **125821** Units: **ug/L** Prep Date: **3/2/2010** RunNo: **166745**
Client ID: TestCode: **APPENDIXII-SEMIVOLATILE ORGANICS SW8270D** Analysis Date: **3/3/2010** SeqNo: **3456167**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chrysene	BRL	10	0	0	0	0	0	0	0		
Diallate	BRL	10	0	0	0	0	0	0	0		
Dibenz(a,h)anthracene	BRL	10	0	0	0	0	0	0	0		
Dibenzofuran	BRL	10	0	0	0	0	0	0	0		
Diethyl phthalate	BRL	10	0	0	0	0	0	0	0		
Dimethoate	BRL	20	0	0	0	0	0	0	0		
Dimethyl phthalate	BRL	10	0	0	0	0	0	0	0		
Di-n-butyl phthalate	BRL	10	0	0	0	0	0	0	0		
Di-n-octyl phthalate	BRL	10	0	0	0	0	0	0	0		
Diphenylamine	BRL	10	0	0	0	0	0	0	0		
Disulfoton	BRL	10	0	0	0	0	0	0	0		
Ethyl methanesulfonate	BRL	20	0	0	0	0	0	0	0		
Famphur	BRL	20	0	0	0	0	0	0	0		
Fluoranthene	BRL	10	0	0	0	0	0	0	0		
Fluorene	BRL	10	0	0	0	0	0	0	0		
Hexachlorobenzene	BRL	10	0	0	0	0	0	0	0		
Hexachlorobutadiene	BRL	10	0	0	0	0	0	0	0		
Hexachlorocyclopentadiene	BRL	10	0	0	0	0	0	0	0		
Hexachloroethane	BRL	10	0	0	0	0	0	0	0		
Hexachloropropene	BRL	10	0	0	0	0	0	0	0		
Indeno(1,2,3-cd)pyrene	BRL	10	0	0	0	0	0	0	0		
Isodrin	BRL	20	0	0	0	0	0	0	0		
Isophorone	BRL	10	0	0	0	0	0	0	0		
Isosafrole	BRL	10	0	0	0	0	0	0	0		
Kepone	BRL	50	0	0	0	0	0	0	0		
Methapyrilene	BRL	20	0	0	0	0	0	0	0		
Methyl methanesulfonate	BRL	10	0	0	0	0	0	0	0		
Methyl parathion	BRL	10	0	0	0	0	0	0	0		

Qualifiers:

<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
BRL	Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

CLIENT: Pace Analytical Services, Inc.
Work Order: 1003049
Project: 9264068

ANALYTICAL QC SUMMARY REPORT

TestCode: APPENDIXII-SEMIVOLATILE ORGANICS SW8270D

Sample ID: **MB-125821** SampType: **MBLK** Batch ID: **125821** Units: **ug/L** Prep Date: **3/2/2010** RunNo: **166745**
Client ID: TestCode: **APPENDIXII-SEMIVOLATILE ORGANICS SW8270D** Analysis Date: **3/3/2010** SeqNo: **3456167**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	BRL	10	0	0	0	0	0	0	0		
Nitrobenzene	BRL	10	0	0	0	0	0	0	0		
N-Nitrosodiethylamine	BRL	20	0	0	0	0	0	0	0		
N-Nitrosodimethylamine	BRL	20	0	0	0	0	0	0	0		
N-Nitroso-di-n-butylamine	BRL	10	0	0	0	0	0	0	0		
N-Nitrosodi-n-propylamine	BRL	10	0	0	0	0	0	0	0		
N-Nitrosodiphenylamine	BRL	50	0	0	0	0	0	0	0		
N-Nitrosomethylethylamine	BRL	10	0	0	0	0	0	0	0		
N-Nitrosopiperidine	BRL	20	0	0	0	0	0	0	0		
N-Nitrosopyrrolidine	BRL	40	0	0	0	0	0	0	0		
O,O,O-Triethylphosphorothioate	BRL	10	0	0	0	0	0	0	0		
o-Toluidine	BRL	20	0	0	0	0	0	0	0		
Parathion	BRL	10	0	0	0	0	0	0	0		
p-Dimethylaminoazobenzene	BRL	10	0	0	0	0	0	0	0		
Pentachlorobenzene	BRL	10	0	0	0	0	0	0	0		
Pentachloronitrobenzene	BRL	20	0	0	0	0	0	0	0		
Pentachlorophenol	BRL	50	0	0	0	0	0	0	0		
Phenacetin	BRL	20	0	0	0	0	0	0	0		
Phenanthrene	BRL	10	0	0	0	0	0	0	0		
Phenol	BRL	10	0	0	0	0	0	0	0		
Phorate	BRL	10	0	0	0	0	0	0	0		
p-Phenylenediamine	BRL	500	0	0	0	0	0	0	0		
Pronamide	BRL	10	0	0	0	0	0	0	0		
Pyrene	BRL	10	0	0	0	0	0	0	0		
Safrole	BRL	20	0	0	0	0	0	0	0		
Sym-Trinitrobenzene	BRL	10	0	0	0	0	0	0	0		
Thionazin	BRL	20	0	0	0	0	0	0	0		
Surr: 2,4,6-Tribromophenol	100.9	0	100	0	101	54.9	149	0	0		

Qualifiers:

<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
BRL	Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

CLIENT: Pace Analytical Services, Inc.
Work Order: 1003049
Project: 9264068

ANALYTICAL QC SUMMARY REPORT

TestCode: APPENDIXII-SEMIVOLATILE ORGANICS SW8270D

Sample ID: **MB-125821** SampType: **MBLK** Batch ID: **125821** Units: **ug/L** Prep Date: **3/2/2010** RunNo: **166745**
Client ID: TestCode: **APPENDIXII-SEMIVOLATILE ORGANICS SW8270D** Analysis Date: **3/3/2010** SeqNo: **3456167**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	47.82	0	50	0	95.6	51.5	119	0	0		
Surr: 2-Fluorophenol	63.92	0	100	0	63.9	25.1	115	0	0		
Surr: 4-Terphenyl-d14	51.5	0	50	0	103	37.5	131	0	0		
Surr: Nitrobenzene-d5	43.07	0	50	0	86.1	42.5	122	0	0		
Surr: Phenol-d5	43.57	0	100	0	43.6	10	115	0	0		

Sample ID: **LCS-125821** SampType: **LCS** Batch ID: **125821** Units: **ug/L** Prep Date: **3/2/2010** RunNo: **166745**
Client ID: TestCode: **APPENDIXII-SEMIVOLATILE ORGANICS SW8270D** Analysis Date: **3/3/2010** SeqNo: **3456168**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	102.9	10	100	0	103	60.2	120	0	0		
1,4-Dichlorobenzene	84.02	10	100	0	84	53.8	120	0	0		
2,4-Dinitrotoluene	103.9	10	100	0	104	70	120	0	0		
2-Chlorophenol	90.27	10	100	0	90.3	61	120	0	0		
4-Chloro-3-methylphenol	103.6	20	100	0	104	72	123	0	0		
4-Nitrophenol	49.02	50	100	0	49	22.1	120	0	0		J
Acenaphthene	101.1	10	100	0	101	68.5	120	0	0		
N-Nitrosodi-n-propylamine	81.63	10	100	0	81.6	60.1	131	0	0		
Pentachlorophenol	101	50	100	0	101	53.6	130	0	0		
Phenol	42.47	10	100	0	42.5	28.7	120	0	0		
Pyrene	117.7	10	100	0	118	69.6	128	0	0		
Surr: 2,4,6-Tribromophenol	121.5	0	100	0	121	54.9	149	0	0		
Surr: 2-Fluorobiphenyl	55.77	0	50	0	112	51.5	119	0	0		
Surr: 2-Fluorophenol	67.6	0	100	0	67.6	25.1	115	0	0		
Surr: 4-Terphenyl-d14	59.83	0	50	0	120	37.5	131	0	0		
Surr: Nitrobenzene-d5	49	0	50	0	98	42.5	122	0	0		
Surr: Phenol-d5	45.61	0	100	0	45.6	10	115	0	0		

Qualifiers:

<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
BRL	Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

CLIENT: Pace Analytical Services, Inc.
Work Order: 1003049
Project: 9264068

ANALYTICAL QC SUMMARY REPORT

TestCode: APPENDIXII-SEMIVOLATILE ORGANICS SW8270D

Sample ID: **1002K72-003DMS** SampType: **MS** Batch ID: **125821** Units: **ug/L** Prep Date: **3/2/2010** RunNo: **166745**
Client ID: TestCode: **APPENDIXII-SEMIVOLATILE ORGANICS SW8270D** Analysis Date: **3/3/2010** SeqNo: **3456173**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	84.8	10	100	0	84.8	53.7	120	0	0		
1,4-Dichlorobenzene	67.9	10	100	0	67.9	47.5	120	0	0		
2,4-Dinitrotoluene	91.98	10	100	0	92	53	118	0	0		
2-Chlorophenol	76.43	10	100	0	76.4	51.6	120	0	0		
4-Chloro-3-methylphenol	90.8	20	100	0	90.8	53.1	128	0	0		
4-Nitrophenol	59.87	50	100	0	59.9	20.1	120	0	0		
Acenaphthene	89.37	10	100	0	89.4	57.2	120	0	0		
N-Nitrosodi-n-propylamine	69.67	10	100	0	69.7	45.2	127	0	0		
Pentachlorophenol	89.15	50	100	0	89.2	41.6	136	0	0		
Phenol	47.16	10	100	0	47.2	23.2	120	0	0		
Pyrene	104.1	10	100	0	104	55.3	120	0	0		
Surr: 2,4,6-Tribromophenol	111.1	0	100	0	111	54.9	149	0	0		
Surr: 2-Fluorobiphenyl	50.31	0	50	0	101	51.5	119	0	0		
Surr: 2-Fluorophenol	65.43	0	100	0	65.4	25.1	115	0	0		
Surr: 4-Terphenyl-d14	55.83	0	50	0	112	37.5	131	0	0		
Surr: Nitrobenzene-d5	42.73	0	50	0	85.5	42.5	122	0	0		
Surr: Phenol-d5	53.6	0	100	0	53.6	10	115	0	0		

Sample ID: **1002K72-003DMSD** SampType: **MSD** Batch ID: **125821** Units: **ug/L** Prep Date: **3/2/2010** RunNo: **166745**
Client ID: TestCode: **APPENDIXII-SEMIVOLATILE ORGANICS SW8270D** Analysis Date: **3/3/2010** SeqNo: **3456174**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	82.13	10	100	0	82.1	53.7	120	84.8	3.20	28.5	
1,4-Dichlorobenzene	69.62	10	100	0	69.6	47.5	120	67.9	2.50	30.6	
2,4-Dinitrotoluene	84.37	10	100	0	84.4	53	118	91.98	8.63	24	
2-Chlorophenol	75.18	10	100	0	75.2	51.6	120	76.43	1.65	28.3	
4-Chloro-3-methylphenol	84.97	20	100	0	85	53.1	128	90.8	6.63	29.6	
4-Nitrophenol	54.46	50	100	0	54.5	20.1	120	59.87	9.46	26.9	

Qualifiers:

<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
BRL	Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

CLIENT: Pace Analytical Services, Inc.
Work Order: 1003049
Project: 9264068

ANALYTICAL QC SUMMARY REPORT

TestCode: APPENDIXII-SEMIVOLATILE ORGANICS SW8270D

Sample ID: **1002K72-003DMSD** SampType: **MSD** Batch ID: **125821** Units: **ug/L** Prep Date: **3/2/2010** RunNo: **166745**
Client ID: TestCode: **APPENDIXII-SEMIVOLATILE ORGANICS SW8270D** Analysis Date: **3/3/2010** SeqNo: **3456174**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	81.31	10	100	0	81.3	57.2	120	89.37	9.44	21.8	
N-Nitrosodi-n-propylamine	65.59	10	100	0	65.6	45.2	127	69.67	6.03	22.9	
Pentachlorophenol	82.91	50	100	0	82.9	41.6	136	89.15	7.25	21.6	
Phenol	44.85	10	100	0	44.8	23.2	120	47.16	5.02	29	
Pyrene	96.57	10	100	0	96.6	55.3	120	104.1	7.50	25.3	
Surr: 2,4,6-Tribromophenol	94.48	0	100	0	94.5	54.9	149	111.1	0	0	
Surr: 2-Fluorobiphenyl	44.31	0	50	0	88.6	51.5	119	50.31	0	0	
Surr: 2-Fluorophenol	61.44	0	100	0	61.4	25.1	115	65.43	0	0	
Surr: 4-Terphenyl-d14	49.28	0	50	0	98.6	37.5	131	55.83	0	0	
Surr: Nitrobenzene-d5	38.21	0	50	0	76.4	42.5	122	42.73	0	0	
Surr: Phenol-d5	46.99	0	100	0	47	10	115	53.6	0	0	

Qualifiers:

<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
BRL	Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

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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.

~~1356~~ 1352605

Page: 1 of 2

1352603

Section A Required Client Information:

Company: Municipal Engineering Services (MESCO)
Address: PO Box 97
Garner NC 27529
Email To: jpfohl@mesco.com
Phone: (919) 772-5393 Fax: (919) 772-1176
Requested Due Date/TAT: standard

Section B Required Project Information:

Report To: Jonathan Pfohl
Copy To:
Purchase Order No.:
Project Name: Cherokee Lined
Project Number:

Section C Invoice Information:

Attention: see A
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Bonnie
Pace Profile #: 2103-3,4

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): N

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 NaOH/ZnAcetate	VOCs-App I	Metals-App I	VOCs-App II	Metals-App II	SVOCs-App II	PCBs-App II	Pesticides-App II	Herbicides-App II	Chloride	Sulfide	Cyanide-Total	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 9264068
1	MW-1	WT	G			2/24/10	8:30		7	1		1	3	1			1			✓	✓					✓	✓	✓	N	9264068001
2	MW-2					2/24/10	9:20		4			1	3					✓	✓											002
3	MW-3					2/24/10	10:15		4			1	3					✓	✓											003
4	MW-4					2/23/10	11:15		4			1	3					✓	✓											004
5	MW-5					2/24/10	1:00		4			1	3					✓	✓											005
6	MW-6S					2/24/10	4:10		15	9		1	3	1			1			✓	✓	✓	✓	✓	✓	✓	✓	✓		006
7	MW-6D					2/24/10	3:10		15	9		1	3	1			1			✓	✓	✓	✓	✓	✓	✓	✓	✓		007
8	MW-7					2/24/10	2:20		15	9		1	3	1			1			✓	✓	✓	✓	✓	✓	✓	✓	✓		008
9	MW-8 [redacted]		~~Missing time~~			2/24/10	1:30		15	9		1	3	1			1			✓	✓	✓	✓	✓	✓	✓	✓	✓		009
10	MW-9					2/23/10	5:00		4			1	3					✓	✓											010
11	P-18					2/24/10	12:30		3				3							✓										011
12																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Surface Waters on separate C-O-C	[signature] MESCO	2/25/10	9 40	[signature] Pace	2/25/10	9 40
	[signature] Pace	2/25/10	1310	J Moore Pace	2/25/10	1310

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

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jonathan Pfohl

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 2/24/10

*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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1352603

Page: 2 of 2

1352605

Section A Required Client Information:

Company: Municipal Engineering Services (MESCO)
Address: PO Box 97
Garner NC 27529
Email To: jpfuleMESCO.com
Phone: (919) 772-5343 Fax: (919) 772-1176
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: Jonathan Pfohl
Copy To:
Purchase Order No.:
Project Name: Cherokee Lined
Project Number:

Section C Invoice Information:

Attention: See A
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Bonnie
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	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	VOCs-App I	Metals-App II	Phosphorus	Sulfate	[redacted]	Nitrate	BOD	COD	pH	Cyanide	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																		Y/N	N										
1	LAGOON WW	WW	G			2/24/10	4:00		12	5	2	1	3	1				✓	✓	✓	✓	[redacted]	✓	✓	✓	✓	✓	N	9264068
2																													9264068012
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Leachate Lagoon	[signature] MESCO	2/25/10	940	[signature] Pace	2/25/10	940				
	[signature] Pace	2/25/10	1310	J Moore Pace	2/25/10	1310	4.9	4	N	4
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Jonathan Pfohl
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 2/24/10

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

March 19, 2010

Mr. Jonathan Pfohl
Municipal Engineering Services
PO Box 97
Garner, NC 27529

RE: Project: CHEROKEE BLANKS
Pace Project No.: 9264064

Dear Mr. Pfohl:
Enclosed are the analytical results for sample(s) received by the laboratory on February 25, 2010. 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,

Kevin Godwin

kevin.godwin@pacelabs.com
Project Manager

Enclosures

cc: Ms. Maggie German, Municipal Engineering Services

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CERTIFICATIONS

Project: CHEROKEE BLANKS
Pace Project No.: 9264064

Charlotte Certification IDs

9800 Kincey Ave. - Ste 100 Huntersville, NC 28078
West Virginia Certification #: 357
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 990060001
South Carolina Drinking Water Cert. #: 990060003
Tennessee Certification #: 04010
Virginia Certification #: 00213

Asheville Certification IDs

2225 Riverside Dr. Asheville, NC 28804
Connecticut Certification #: PH-0106
Louisiana/LELAP Certification #: 03095
Massachusetts Certification #: M-NC030
New Jersey Certification #: NC011
North Carolina Bioassay Certification #: 9
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
Pennsylvania Certification #: 68-03578
South Carolina Bioassay Certification #: 99030002
South Carolina Certification #: 99030001
Tennessee Certification #: 2980
Virginia Certification #: 00072
West Virginia Certification #: 356
Florida/NELAP Certification #: E87648

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SAMPLE SUMMARY

Project: CHEROKEE BLANKS
Pace Project No.: 9264064

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9264064001	**EB**	Water	02/23/10 07:00	02/25/10 13:10
9264064002	**FB**	Water	02/23/10 07:10	02/25/10 13:10
9264064003	**TB**	Water	02/23/10 00:00	02/25/10 13:10

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SAMPLE ANALYTE COUNT

Project: CHEROKEE BLANKS
Pace Project No.: 9264064

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9264064001	**EB**	EPA 6010	EWS	16	PASI-A
		EPA 7470	JMW	1	PASI-A
		EPA 8260	MCK	52	PASI-C
9264064002	**FB**	EPA 8260	MCK	52	PASI-C
9264064003	**TB**	EPA 8260	MCK	52	PASI-C

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ANALYTICAL RESULTS

Project: CHEROKEE BLANKS
Pace Project No.: 9264064

Sample: EB **Lab ID: 9264064001** Collected: 02/23/10 07:00 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	2.6	1	03/03/10 13:55	03/10/10 23:56	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	03/03/10 13:55	03/10/10 23:56	7440-38-2	
Barium	ND	ug/L	100	0.20	1	03/03/10 13:55	03/10/10 23:56	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	03/03/10 13:55	03/10/10 23:56	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	03/03/10 13:55	03/10/10 23:56	7440-43-9	
Chromium	ND	ug/L	10.0	0.40	1	03/03/10 13:55	03/10/10 23:56	7440-47-3	
Cobalt	ND	ug/L	10.0	0.60	1	03/03/10 13:55	03/10/10 23:56	7440-48-4	
Copper	ND	ug/L	10.0	0.30	1	03/03/10 13:55	03/10/10 23:56	7440-50-8	
Lead	ND	ug/L	10.0	4.0	1	03/03/10 13:55	03/10/10 23:56	7439-92-1	
Nickel	ND	ug/L	50.0	1.7	1	03/03/10 13:55	03/10/10 23:56	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	03/03/10 13:55	03/10/10 23:56	7782-49-2	
Silver	ND	ug/L	10.0	0.10	1	03/03/10 13:55	03/10/10 23:56	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	03/03/10 13:55	03/10/10 23:56	7440-28-0	
Tin	ND	ug/L	100	1.8	1	03/03/10 13:55	03/10/10 23:56	7440-31-5	
Vanadium	ND	ug/L	25.0	0.20	1	03/03/10 13:55	03/10/10 23:56	7440-62-2	
Zinc	**1.9J**	ug/L	10.0	0.40	1	03/03/10 13:55	03/10/10 23:56	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	ND	ug/L	0.20	0.070	1	03/16/10 10:30	03/17/10 12:23	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		02/28/10 13:26	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/28/10 13:26	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/28/10 13:26	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/28/10 13:26	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/28/10 13:26	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/28/10 13:26	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/28/10 13:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/28/10 13:26	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/28/10 13:26	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/28/10 13:26	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/28/10 13:26	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/28/10 13:26	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/28/10 13:26	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/28/10 13:26	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/28/10 13:26	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/28/10 13:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/28/10 13:26	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/28/10 13:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/28/10 13:26	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/28/10 13:26	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/28/10 13:26	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/28/10 13:26	75-34-3	
1,2-Dichloroethane	**1.3**	ug/L	1.0	0.12	1		02/28/10 13:26	107-06-2	C9
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/28/10 13:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/28/10 13:26	156-59-2	

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(704)875-9092

ANALYTICAL RESULTS

Project: CHEROKEE BLANKS
Pace Project No.: 9264064

Sample: EB **Lab ID: 9264064001** Collected: 02/23/10 07:00 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/28/10 13:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/28/10 13:26	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/28/10 13:26	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/28/10 13:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/28/10 13:26	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/28/10 13:26	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/28/10 13:26	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/28/10 13:26	74-88-4	
Methylene Chloride	**5.1**	ug/L	2.0	0.97	1		02/28/10 13:26	75-09-2	C9
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/28/10 13:26	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/28/10 13:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/28/10 13:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/28/10 13:26	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/28/10 13:26	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/28/10 13:26	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/28/10 13:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/28/10 13:26	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/28/10 13:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/28/10 13:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/28/10 13:26	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/28/10 13:26	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/28/10 13:26	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		02/28/10 13:26	1330-20-7	
4-Bromofluorobenzene (S)	96	%	87-109		1		02/28/10 13:26	460-00-4	
Dibromofluoromethane (S)	107	%	85-115		1		02/28/10 13:26	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	79-120		1		02/28/10 13:26	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		02/28/10 13:26	2037-26-5	

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: CHEROKEE BLANKS
Pace Project No.: 9264064

Sample: FB **Lab ID: 9264064002** Collected: 02/23/10 07:10 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		02/28/10 13:50	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/28/10 13:50	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/28/10 13:50	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/28/10 13:50	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/28/10 13:50	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/28/10 13:50	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/28/10 13:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/28/10 13:50	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/28/10 13:50	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/28/10 13:50	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/28/10 13:50	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/28/10 13:50	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/28/10 13:50	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/28/10 13:50	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/28/10 13:50	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/28/10 13:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/28/10 13:50	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/28/10 13:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/28/10 13:50	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/28/10 13:50	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/28/10 13:50	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/28/10 13:50	75-34-3	
1,2-Dichloroethane	**1.3**	ug/L	1.0	0.12	1		02/28/10 13:50	107-06-2	C9
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/28/10 13:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/28/10 13:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/28/10 13:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/28/10 13:50	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/28/10 13:50	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/28/10 13:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/28/10 13:50	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/28/10 13:50	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/28/10 13:50	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/28/10 13:50	74-88-4	
Methylene Chloride	**5.1**	ug/L	2.0	0.97	1		02/28/10 13:50	75-09-2	C9
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/28/10 13:50	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/28/10 13:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/28/10 13:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/28/10 13:50	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/28/10 13:50	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/28/10 13:50	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/28/10 13:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/28/10 13:50	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/28/10 13:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/28/10 13:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/28/10 13:50	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/28/10 13:50	108-05-4	

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ANALYTICAL RESULTS

Project: CHEROKEE BLANKS
Pace Project No.: 9264064

Sample: FB **Lab ID: 9264064002** Collected: 02/23/10 07:10 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/28/10 13:50	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		02/28/10 13:50	1330-20-7	
4-Bromofluorobenzene (S)	97	%	87-109		1		02/28/10 13:50	460-00-4	
Dibromofluoromethane (S)	106	%	85-115		1		02/28/10 13:50	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	79-120		1		02/28/10 13:50	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		02/28/10 13:50	2037-26-5	

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ANALYTICAL RESULTS

Project: CHEROKEE BLANKS
Pace Project No.: 9264064

Sample: TB **Lab ID: 9264064003** Collected: 02/23/10 00:00 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**36.8J**	ug/L	100	2.2	1		02/28/10 14:14	67-64-1	C9
Acrylonitrile	ND	ug/L	200	1.9	1		02/28/10 14:14	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/28/10 14:14	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/28/10 14:14	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/28/10 14:14	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/28/10 14:14	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/28/10 14:14	74-83-9	
2-Butanone (MEK)	**5.8J**	ug/L	100	0.96	1		02/28/10 14:14	78-93-3	C9
Carbon disulfide	ND	ug/L	100	1.2	1		02/28/10 14:14	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/28/10 14:14	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/28/10 14:14	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/28/10 14:14	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/28/10 14:14	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/28/10 14:14	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/28/10 14:14	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/28/10 14:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/28/10 14:14	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/28/10 14:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/28/10 14:14	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/28/10 14:14	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/28/10 14:14	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/28/10 14:14	75-34-3	
1,2-Dichloroethane	**1.6**	ug/L	1.0	0.12	1		02/28/10 14:14	107-06-2	C9
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/28/10 14:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/28/10 14:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/28/10 14:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/28/10 14:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/28/10 14:14	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/28/10 14:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/28/10 14:14	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/28/10 14:14	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/28/10 14:14	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/28/10 14:14	74-88-4	
Methylene Chloride	**2.2**	ug/L	2.0	0.97	1		02/28/10 14:14	75-09-2	C9
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/28/10 14:14	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/28/10 14:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/28/10 14:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/28/10 14:14	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/28/10 14:14	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/28/10 14:14	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/28/10 14:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/28/10 14:14	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/28/10 14:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/28/10 14:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/28/10 14:14	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/28/10 14:14	108-05-4	

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ANALYTICAL RESULTS

Project: CHEROKEE BLANKS
Pace Project No.: 9264064

Sample: TB **Lab ID: 9264064003** Collected: 02/23/10 00:00 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/28/10 14:14	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		02/28/10 14:14	1330-20-7	
4-Bromofluorobenzene (S)	98	%	87-109		1		02/28/10 14:14	460-00-4	
Dibromofluoromethane (S)	107	%	85-115		1		02/28/10 14:14	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	79-120		1		02/28/10 14:14	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		02/28/10 14:14	2037-26-5	

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QUALITY CONTROL DATA

Project: CHEROKEE BLANKS
Pace Project No.: 9264064

QC Batch: MPRP/5903
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9264064001

METHOD BLANK: 409960
Matrix: Water
Associated Lab Samples: 9264064001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	03/10/10 23:07	
Arsenic	ug/L	3.9J	10.0	03/10/10 23:07	
Barium	ug/L	ND	100	03/10/10 23:07	
Beryllium	ug/L	0.11J	1.0	03/10/10 23:07	
Cadmium	ug/L	ND	1.0	03/10/10 23:07	
Chromium	ug/L	ND	10.0	03/10/10 23:07	
Cobalt	ug/L	ND	10.0	03/10/10 23:07	
Copper	ug/L	ND	10.0	03/10/10 23:07	
Lead	ug/L	ND	10.0	03/10/10 23:07	
Nickel	ug/L	ND	50.0	03/10/10 23:07	
Selenium	ug/L	ND	10.0	03/10/10 23:07	
Silver	ug/L	ND	10.0	03/10/10 23:07	
Thallium	ug/L	ND	5.5	03/10/10 23:07	
Vanadium	ug/L	ND	25.0	03/10/10 23:07	
Zinc	ug/L	1.4J	10.0	03/10/10 23:07	

LABORATORY CONTROL SAMPLE: 409961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	499	100	80-120	
Arsenic	ug/L	500	480	96	80-120	
Barium	ug/L	500	466	93	80-120	
Beryllium	ug/L	500	504	101	80-120	
Cadmium	ug/L	500	480	96	80-120	
Chromium	ug/L	500	482	96	80-120	
Cobalt	ug/L	500	491	98	80-120	
Copper	ug/L	500	482	96	80-120	
Lead	ug/L	500	479	96	80-120	
Nickel	ug/L	500	485	97	80-120	
Selenium	ug/L	500	471	94	80-120	
Silver	ug/L	250	242	97	80-120	
Thallium	ug/L	500	463	93	80-120	
Vanadium	ug/L	500	485	97	80-120	
Zinc	ug/L	500	478	96	80-120	

MATRIX SPIKE SAMPLE: 409962

Parameter	Units	9263956001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	5.02	500	465	93	75-125	
Arsenic	ug/L	5.02	500	464	92	75-125	

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QUALITY CONTROL DATA

Project: CHEROKEE BLANKS
Pace Project No.: 9264064

MATRIX SPIKE SAMPLE: 409962

Parameter	Units	9263956001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	2170	500	2500	65	75-125	M0
Beryllium	ug/L	3.0	500	464	92	75-125	
Cadmium	ug/L	0.89J	500	427	85	75-125	
Chromium	ug/L	0.50J	500	430	86	75-125	
Cobalt	ug/L	9.1	500	437	86	75-125	
Copper	ug/L	5.02	500	448	90	75-125	
Lead	ug/L	5.02	500	415	83	75-125	
Nickel	ug/L	3.2J	500	427	85	75-125	
Selenium	ug/L	10.02	500	453	91	75-125	
Silver	ug/L	1.2J	250	223	89	75-125	
Thallium	ug/L	5.42	500	393	78	75-125	
Vanadium	ug/L	0.56J	500	439	88	75-125	
Zinc	ug/L	70.1	500	509	88	75-125	

SAMPLE DUPLICATE: 409963

Parameter	Units	9263956002 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	5.02	ND		25	
Arsenic	ug/L	3.4J	4.9J		25	
Barium	ug/L	186	174	7	25	
Beryllium	ug/L	0.34J	0.34J		25	
Cadmium	ug/L	1.02	ND		25	
Chromium	ug/L	0.85J	0.81J		25	
Cobalt	ug/L	34.2	32.7	4	25	
Copper	ug/L	3.6J	2.9J		25	
Lead	ug/L	5.02	ND		25	
Nickel	ug/L	10.9	10.8J	1	25	
Selenium	ug/L	10.02	ND		25	
Silver	ug/L	1.5J	1.4J		25	
Thallium	ug/L	5.42	ND		25	
Vanadium	ug/L	3.2J	2.7J		25	
Zinc	ug/L	5.0J	4.2J		25	

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QUALITY CONTROL DATA

Project: CHEROKEE BLANKS
Pace Project No.: 9264064

QC Batch: MERP/2713
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 9264064001

METHOD BLANK: 415411
Matrix: Water
Associated Lab Samples: 9264064001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	03/17/10 12:18	

LABORATORY CONTROL SAMPLE: 415412

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.5	99	80-120	

MATRIX SPIKE SAMPLE: 415413

Parameter	Units	9264064001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	2.5	2.4	95	75-125	

SAMPLE DUPLICATE: 415414

Parameter	Units	9265277001 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	ug/L	0.088J	0.093J		25	

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QUALITY CONTROL DATA

Project: CHEROKEE BLANKS
Pace Project No.: 9264064

QC Batch: MSV/10114 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9264064001, 9264064002, 9264064003

METHOD BLANK: 408642 Matrix: Water
Associated Lab Samples: 9264064001, 9264064002, 9264064003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	02/28/10 10:30	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/28/10 10:30	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	02/28/10 10:30	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/28/10 10:30	
1,1-Dichloroethane	ug/L	ND	5.0	02/28/10 10:30	
1,1-Dichloroethene	ug/L	ND	5.0	02/28/10 10:30	
1,2,3-Trichloropropane	ug/L	ND	1.0	02/28/10 10:30	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	02/28/10 10:30	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	02/28/10 10:30	
1,2-Dichlorobenzene	ug/L	ND	5.0	02/28/10 10:30	
1,2-Dichloroethane	ug/L	ND	1.0	02/28/10 10:30	
1,2-Dichloropropane	ug/L	ND	1.0	02/28/10 10:30	
1,3-Dichloropropane	ug/L	ND	1.0	02/28/10 10:30	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/28/10 10:30	
2-Butanone (MEK)	ug/L	ND	100	02/28/10 10:30	
2-Hexanone	ug/L	ND	50.0	02/28/10 10:30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	02/28/10 10:30	
Acetone	ug/L	ND	100	02/28/10 10:30	
Acrylonitrile	ug/L	ND	200	02/28/10 10:30	
Benzene	ug/L	ND	1.0	02/28/10 10:30	
Bromochloromethane	ug/L	ND	3.0	02/28/10 10:30	
Bromodichloromethane	ug/L	ND	1.0	02/28/10 10:30	
Bromoform	ug/L	ND	3.0	02/28/10 10:30	
Bromomethane	ug/L	ND	10.0	02/28/10 10:30	
Carbon disulfide	ug/L	ND	100	02/28/10 10:30	
Carbon tetrachloride	ug/L	ND	1.0	02/28/10 10:30	
Chlorobenzene	ug/L	ND	3.0	02/28/10 10:30	
Chloroethane	ug/L	ND	10.0	02/28/10 10:30	
Chloroform	ug/L	ND	5.0	02/28/10 10:30	
Chloromethane	ug/L	ND	1.0	02/28/10 10:30	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/28/10 10:30	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/28/10 10:30	
Dibromochloromethane	ug/L	ND	3.0	02/28/10 10:30	
Dibromomethane	ug/L	ND	10.0	02/28/10 10:30	
Ethylbenzene	ug/L	ND	1.0	02/28/10 10:30	
Iodomethane	ug/L	ND	10.0	02/28/10 10:30	
Methylene Chloride	ug/L	ND	2.0	02/28/10 10:30	
Styrene	ug/L	ND	1.0	02/28/10 10:30	
Tetrachloroethene	ug/L	ND	1.0	02/28/10 10:30	
Toluene	ug/L	ND	1.0	02/28/10 10:30	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/28/10 10:30	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/28/10 10:30	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	02/28/10 10:30	

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(704)875-9092

QUALITY CONTROL DATA

Project: CHEROKEE BLANKS
Pace Project No.: 9264064

METHOD BLANK: 408642 Matrix: Water

Associated Lab Samples: 9264064001, 9264064002, 9264064003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichloroethene	ug/L	ND	1.0	02/28/10 10:30	
Trichlorofluoromethane	ug/L	ND	1.0	02/28/10 10:30	
Vinyl acetate	ug/L	ND	50.0	02/28/10 10:30	
Vinyl chloride	ug/L	ND	1.0	02/28/10 10:30	
Xylene (Total)	ug/L	ND	2.0	02/28/10 10:30	
1,2-Dichloroethane-d4 (S)	%	93	79-120	02/28/10 10:30	
4-Bromofluorobenzene (S)	%	98	87-109	02/28/10 10:30	
Dibromofluoromethane (S)	%	104	85-115	02/28/10 10:30	
Toluene-d8 (S)	%	101	70-120	02/28/10 10:30	

LABORATORY CONTROL SAMPLE: 408643

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.1	100	83-125	
1,1,1-Trichloroethane	ug/L	50	51.4	103	80-129	
1,1,2,2-Tetrachloroethane	ug/L	50	48.4	97	73-127	
1,1,2-Trichloroethane	ug/L	50	52.2	104	77-123	
1,1-Dichloroethane	ug/L	50	55.3	111	76-129	
1,1-Dichloroethene	ug/L	50	50.1	100	78-146	
1,2,3-Trichloropropane	ug/L	50	49.4	99	72-125	
1,2-Dibromo-3-chloropropane	ug/L	50	43.1	86	65-128	
1,2-Dibromoethane (EDB)	ug/L	50	50.6	101	81-125	
1,2-Dichlorobenzene	ug/L	50	50.2	100	82-126	
1,2-Dichloroethane	ug/L	50	46.8	94	72-126	
1,2-Dichloropropane	ug/L	50	51.5	103	80-127	
1,3-Dichloropropane	ug/L	50	49.9	100	79-124	
1,4-Dichlorobenzene	ug/L	50	49.8	100	79-125	
2-Butanone (MEK)	ug/L	100	106	106	50-134	
2-Hexanone	ug/L	100	110	110	58-138	
4-Methyl-2-pentanone (MIBK)	ug/L	100	105	105	70-131	
Acetone	ug/L	100	126	126	50-146	
Acrylonitrile	ug/L	250	263	105	66-124	
Benzene	ug/L	50	52.4	105	78-128	
Bromochloromethane	ug/L	50	54.5	109	73-124	
Bromodichloromethane	ug/L	50	49.7	99	81-125	
Bromoform	ug/L	50	39.1	78	71-125	
Bromomethane	ug/L	50	39.1	78	50-150	
Carbon disulfide	ug/L	50	55.0J	110	54-150	
Carbon tetrachloride	ug/L	50	48.8	98	81-137	
Chlorobenzene	ug/L	50	51.5	103	82-126	
Chloroethane	ug/L	50	51.8	104	69-140	
Chloroform	ug/L	50	50.9	102	77-129	
Chloromethane	ug/L	50	47.1	94	54-139	
cis-1,2-Dichloroethene	ug/L	50	52.6	105	76-133	
cis-1,3-Dichloropropene	ug/L	50	52.9	106	76-127	

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QUALITY CONTROL DATA

Project: CHEROKEE BLANKS
Pace Project No.: 9264064

LABORATORY CONTROL SAMPLE: 408643

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	48.9	98	77-125	
Dibromomethane	ug/L	50	51.4	103	77-125	
Ethylbenzene	ug/L	50	51.7	103	80-127	
Iodomethane	ug/L	100	115	115	65-172	
Methylene Chloride	ug/L	50	41.8	84	67-133	
Styrene	ug/L	50	53.0	106	80-130	
Tetrachloroethene	ug/L	50	52.8	106	78-128	
Toluene	ug/L	50	52.1	104	76-126	
trans-1,2-Dichloroethene	ug/L	50	50.6	101	78-134	
trans-1,3-Dichloropropene	ug/L	50	51.2	102	75-125	
trans-1,4-Dichloro-2-butene	ug/L	50	47.6J	95	51-140	
Trichloroethene	ug/L	50	53.1	106	79-127	
Trichlorofluoromethane	ug/L	50	47.7	95	76-148	
Vinyl acetate	ug/L	100	121	121	50-150	
Vinyl chloride	ug/L	50	46.5	93	67-143	
Xylene (Total)	ug/L	150	159	106	83-125	
1,2-Dichloroethane-d4 (S)	%			91	79-120	
4-Bromofluorobenzene (S)	%			100	87-109	
Dibromofluoromethane (S)	%			101	85-115	
Toluene-d8 (S)	%			100	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 408644 408645

Parameter	Units	9264067011 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	59.0	57.6	118	115	60-150	2	30	
Benzene	ug/L	ND	50	50	57.1	56.7	114	113	74-136	1	30	
Chlorobenzene	ug/L	ND	50	50	56.4	55.8	113	112	79-135	1	30	
Toluene	ug/L	ND	50	50	57.9	57.2	116	114	73-131	1	30	
Trichloroethene	ug/L	ND	50	50	59.3	58.2	119	116	73-131	2	30	
1,2-Dichloroethane-d4 (S)	%						98	96	79-120			
4-Bromofluorobenzene (S)	%						102	101	87-109			
Dibromofluoromethane (S)	%						102	100	85-115			
Toluene-d8 (S)	%						100	100	70-120			

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QUALIFIERS

Project: CHEROKEE BLANKS
Pace Project No.: 9264064

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.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

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

ANALYTE QUALIFIERS

C9	Common Laboratory Contaminant.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1352606

Section A Required Client Information:

Company: Municipal Engineering Services PO Box 97
Address: Garner NC 27529
Email To: jpfohl@mesco.com
Phone: (919) 772-1176 Fax: (919) 772-5393
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: Jonathan Pfohl
Copy To:
Purchase Order No.:
Project Name: Cherokee Blanks
Project Number:

Section C Invoice Information:

Attention: See A
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Bonnie
Pace Profile #: 2103-3

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): N

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	Analysis Test: VOCs - App I	Analysis Test: Metals - App II	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	EB	WT	G			2/23/10	7:00		4			1	3					✓	✓	N	001
2	FB	↓	↓			2/23/10	7:10		3				3					✓			002
3	TB				PACE	Filled			2				2					✓			003
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Pace DI H_2O	MESCO	2/25/10	940	Pace	2/25/10	940
Pine Env. "sink Fast" B. Bular for EB.	Pace	2/25/10	1310	Pace	2/25	1310

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

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Jonathan Pfohl
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 2/24/10

*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

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March 15, 2010

Mr. Jonathan Pfohl
Municipal Engineering Services
PO Box 97
Garner, NC 27529

RE: Project: CHEROKEE - SW
Pace Project No.: 9264065

Dear Mr. Pfohl:
Enclosed are the analytical results for sample(s) received by the laboratory on February 25, 2010. 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,

Kevin Godwin

kevin.godwin@pacelabs.com
Project Manager

Enclosures

cc: Ms. Maggie German, Municipal Engineering Services

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CERTIFICATIONS

Project: CHEROKEE - SW
Pace Project No.: 9264065

Charlotte Certification IDs

Kentucky UST Certification #: 84
Louisiana/LELAP Certification #: 04034
Florida/NELAP Certification #: E87627
Connecticut Certification #: PH-0104
9800 Kincey Ave. - Ste 100 Huntersville, NC 28078
West Virginia Certification #: 357
Virginia Certification #: 00213
Tennessee Certification #: 04010
South Carolina Drinking Water Cert. #: 990060003
South Carolina Certification #: 990060001
Pennsylvania Certification #: 68-00784
North Carolina Wastewater Certification #: 12
North Carolina Field Services Certification #: 5342
North Carolina Drinking Water Certification #: 37706
New Jersey Certification #: NC012

Asheville Certification IDs

Connecticut Certification #: PH-0106
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Virginia Certification #: 00072
Tennessee Certification #: 2980
South Carolina Certification #: 99030001
South Carolina Bioassay Certification #: 99030002
Pennsylvania Certification #: 68-03578
North Carolina Wastewater Certification #: 40
North Carolina Drinking Water Certification #: 37712
North Carolina Bioassay Certification #: 9
New Jersey Certification #: NC011
Massachusetts Certification #: M-NC030
Louisiana/LELAP Certification #: 03095
Florida/NELAP Certification #: E87648
West Virginia Certification #: 356

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SAMPLE SUMMARY

Project: CHEROKEE - SW
Pace Project No.: 9264065

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9264065001	**SW-1**	Water	02/23/10 11:00	02/25/10 13:10
9264065002	**SW-2**	Water	02/23/10 13:55	02/25/10 13:10
9264065003	**SW-4**	Water	02/23/10 14:20	02/25/10 13:10

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SAMPLE ANALYTE COUNT

Project: CHEROKEE - SW
Pace Project No.: 9264065

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9264065001	**SW-1**	EPA 6010	EWS	15	PASI-A
		EPA 8260	MCK	52	PASI-C
9264065002	**SW-2**	EPA 6010	EWS	15	PASI-A
		EPA 8260	MCK	52	PASI-C
9264065003	**SW-4**	EPA 6010	EWS	15	PASI-A
		EPA 8260	MCK	52	PASI-C

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ANALYTICAL RESULTS

Project: CHEROKEE - SW
Pace Project No.: 9264065

Sample: SW-1 **Lab ID: 9264065001** Collected: 02/23/10 11:00 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	2.6	1	03/03/10 13:55	03/10/10 23:59	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	03/03/10 13:55	03/10/10 23:59	7440-38-2	
Barium	**5.8J**	ug/L	100	0.20	1	03/03/10 13:55	03/10/10 23:59	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	03/03/10 13:55	03/10/10 23:59	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	03/03/10 13:55	03/10/10 23:59	7440-43-9	
Chromium	ND	ug/L	10.0	0.40	1	03/03/10 13:55	03/10/10 23:59	7440-47-3	
Cobalt	ND	ug/L	10.0	0.60	1	03/03/10 13:55	03/10/10 23:59	7440-48-4	
Copper	ND	ug/L	10.0	0.30	1	03/03/10 13:55	03/10/10 23:59	7440-50-8	
Lead	ND	ug/L	10.0	4.0	1	03/03/10 13:55	03/10/10 23:59	7439-92-1	
Nickel	ND	ug/L	50.0	1.7	1	03/03/10 13:55	03/10/10 23:59	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	03/03/10 13:55	03/10/10 23:59	7782-49-2	
Silver	ND	ug/L	10.0	0.10	1	03/03/10 13:55	03/10/10 23:59	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	03/03/10 13:55	03/10/10 23:59	7440-28-0	
Vanadium	**0.43J**	ug/L	25.0	0.20	1	03/03/10 13:55	03/10/10 23:59	7440-62-2	
Zinc	**3.6J**	ug/L	10.0	0.40	1	03/03/10 13:55	03/10/10 23:59	7440-66-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		02/28/10 14:38	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/28/10 14:38	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/28/10 14:38	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/28/10 14:38	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/28/10 14:38	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/28/10 14:38	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/28/10 14:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/28/10 14:38	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/28/10 14:38	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/28/10 14:38	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/28/10 14:38	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/28/10 14:38	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/28/10 14:38	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/28/10 14:38	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/28/10 14:38	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/28/10 14:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/28/10 14:38	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/28/10 14:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/28/10 14:38	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/28/10 14:38	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/28/10 14:38	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/28/10 14:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/28/10 14:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/28/10 14:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/28/10 14:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/28/10 14:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/28/10 14:38	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/28/10 14:38	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/28/10 14:38	10061-01-5	

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ANALYTICAL RESULTS

Project: CHEROKEE - SW
Pace Project No.: 9264065

Sample: SW-1 **Lab ID: 9264065001** Collected: 02/23/10 11:00 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/28/10 14:38	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/28/10 14:38	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/28/10 14:38	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/28/10 14:38	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		02/28/10 14:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/28/10 14:38	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/28/10 14:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/28/10 14:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/28/10 14:38	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/28/10 14:38	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/28/10 14:38	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/28/10 14:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/28/10 14:38	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/28/10 14:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/28/10 14:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/28/10 14:38	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/28/10 14:38	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/28/10 14:38	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		02/28/10 14:38	1330-20-7	
4-Bromofluorobenzene (S)	95	%	87-109		1		02/28/10 14:38	460-00-4	
Dibromofluoromethane (S)	107	%	85-115		1		02/28/10 14:38	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	79-120		1		02/28/10 14:38	17060-07-0	
Toluene-d8 (S)	101	%	70-120		1		02/28/10 14:38	2037-26-5	

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ANALYTICAL RESULTS

Project: CHEROKEE - SW
Pace Project No.: 9264065

Sample: SW-2 **Lab ID: 9264065002** Collected: 02/23/10 13:55 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	2.6	1	03/03/10 13:55	03/11/10 00:13	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	03/03/10 13:55	03/11/10 00:13	7440-38-2	
Barium	**5.0J**	ug/L	100	0.20	1	03/03/10 13:55	03/11/10 00:13	7440-39-3	
Beryllium	**0.11J**	ug/L	1.0	0.10	1	03/03/10 13:55	03/11/10 00:13	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	03/03/10 13:55	03/11/10 00:13	7440-43-9	
Chromium	ND	ug/L	10.0	0.40	1	03/03/10 13:55	03/11/10 00:13	7440-47-3	
Cobalt	ND	ug/L	10.0	0.60	1	03/03/10 13:55	03/11/10 00:13	7440-48-4	
Copper	ND	ug/L	10.0	0.30	1	03/03/10 13:55	03/11/10 00:13	7440-50-8	
Lead	ND	ug/L	10.0	4.0	1	03/03/10 13:55	03/11/10 00:13	7439-92-1	
Nickel	ND	ug/L	50.0	1.7	1	03/03/10 13:55	03/11/10 00:13	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	03/03/10 13:55	03/11/10 00:13	7782-49-2	
Silver	ND	ug/L	10.0	0.10	1	03/03/10 13:55	03/11/10 00:13	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	03/03/10 13:55	03/11/10 00:13	7440-28-0	
Vanadium	**0.35J**	ug/L	25.0	0.20	1	03/03/10 13:55	03/11/10 00:13	7440-62-2	
Zinc	**2.3J**	ug/L	10.0	0.40	1	03/03/10 13:55	03/11/10 00:13	7440-66-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		02/28/10 15:02	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/28/10 15:02	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/28/10 15:02	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/28/10 15:02	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/28/10 15:02	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/28/10 15:02	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/28/10 15:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/28/10 15:02	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/28/10 15:02	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/28/10 15:02	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/28/10 15:02	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/28/10 15:02	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/28/10 15:02	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/28/10 15:02	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/28/10 15:02	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/28/10 15:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/28/10 15:02	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/28/10 15:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/28/10 15:02	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/28/10 15:02	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/28/10 15:02	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/28/10 15:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/28/10 15:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/28/10 15:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/28/10 15:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/28/10 15:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/28/10 15:02	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/28/10 15:02	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/28/10 15:02	10061-01-5	

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ANALYTICAL RESULTS

Project: CHEROKEE - SW
Pace Project No.: 9264065

Sample: SW-2 **Lab ID: 9264065002** Collected: 02/23/10 13:55 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/28/10 15:02	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/28/10 15:02	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/28/10 15:02	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/28/10 15:02	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		02/28/10 15:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/28/10 15:02	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/28/10 15:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/28/10 15:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/28/10 15:02	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/28/10 15:02	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/28/10 15:02	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/28/10 15:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/28/10 15:02	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/28/10 15:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/28/10 15:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/28/10 15:02	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/28/10 15:02	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/28/10 15:02	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		02/28/10 15:02	1330-20-7	
4-Bromofluorobenzene (S)	98	%	87-109		1		02/28/10 15:02	460-00-4	
Dibromofluoromethane (S)	107	%	85-115		1		02/28/10 15:02	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	79-120		1		02/28/10 15:02	17060-07-0	
Toluene-d8 (S)	102	%	70-120		1		02/28/10 15:02	2037-26-5	

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ANALYTICAL RESULTS

Project: CHEROKEE - SW
Pace Project No.: 9264065

Sample: SW-4 **Lab ID: 9264065003** Collected: 02/23/10 14:20 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	2.6	1	03/03/10 13:55	03/11/10 00:17	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	03/03/10 13:55	03/11/10 00:17	7440-38-2	
Barium	**5.1J**	ug/L	100	0.20	1	03/03/10 13:55	03/11/10 00:17	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	03/03/10 13:55	03/11/10 00:17	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	03/03/10 13:55	03/11/10 00:17	7440-43-9	
Chromium	ND	ug/L	10.0	0.40	1	03/03/10 13:55	03/11/10 00:17	7440-47-3	
Cobalt	ND	ug/L	10.0	0.60	1	03/03/10 13:55	03/11/10 00:17	7440-48-4	
Copper	ND	ug/L	10.0	0.30	1	03/03/10 13:55	03/11/10 00:17	7440-50-8	
Lead	ND	ug/L	10.0	4.0	1	03/03/10 13:55	03/11/10 00:17	7439-92-1	
Nickel	ND	ug/L	50.0	1.7	1	03/03/10 13:55	03/11/10 00:17	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	03/03/10 13:55	03/11/10 00:17	7782-49-2	
Silver	ND	ug/L	10.0	0.10	1	03/03/10 13:55	03/11/10 00:17	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	03/03/10 13:55	03/11/10 00:17	7440-28-0	
Vanadium	**0.35J**	ug/L	25.0	0.20	1	03/03/10 13:55	03/11/10 00:17	7440-62-2	
Zinc	**3.0J**	ug/L	10.0	0.40	1	03/03/10 13:55	03/11/10 00:17	7440-66-6	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		02/28/10 15:26	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		02/28/10 15:26	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		02/28/10 15:26	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		02/28/10 15:26	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		02/28/10 15:26	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		02/28/10 15:26	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		02/28/10 15:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		02/28/10 15:26	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		02/28/10 15:26	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		02/28/10 15:26	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		02/28/10 15:26	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		02/28/10 15:26	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		02/28/10 15:26	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		02/28/10 15:26	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		02/28/10 15:26	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		02/28/10 15:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		02/28/10 15:26	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		02/28/10 15:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		02/28/10 15:26	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		02/28/10 15:26	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		02/28/10 15:26	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		02/28/10 15:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		02/28/10 15:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		02/28/10 15:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		02/28/10 15:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		02/28/10 15:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		02/28/10 15:26	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		02/28/10 15:26	142-28-9	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		02/28/10 15:26	10061-01-5	

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ANALYTICAL RESULTS

Project: CHEROKEE - SW
Pace Project No.: 9264065

Sample: SW-4 **Lab ID: 9264065003** Collected: 02/23/10 14:20 Received: 02/25/10 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		02/28/10 15:26	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/28/10 15:26	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		02/28/10 15:26	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		02/28/10 15:26	74-88-4	
Methylene Chloride	ND	ug/L	2.0	0.97	1		02/28/10 15:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		02/28/10 15:26	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		02/28/10 15:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		02/28/10 15:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		02/28/10 15:26	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		02/28/10 15:26	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		02/28/10 15:26	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		02/28/10 15:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		02/28/10 15:26	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		02/28/10 15:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		02/28/10 15:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		02/28/10 15:26	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		02/28/10 15:26	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		02/28/10 15:26	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		02/28/10 15:26	1330-20-7	
4-Bromofluorobenzene (S)	98	%	87-109		1		02/28/10 15:26	460-00-4	
Dibromofluoromethane (S)	108	%	85-115		1		02/28/10 15:26	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	79-120		1		02/28/10 15:26	17060-07-0	
Toluene-d8 (S)	100	%	70-120		1		02/28/10 15:26	2037-26-5	

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QUALITY CONTROL DATA

Project: CHEROKEE - SW
Pace Project No.: 9264065

QC Batch: MPRP/5903 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9264065001, 9264065002, 9264065003

METHOD BLANK: 409960 | Matrix: Water
Associated Lab Samples: 9264065001, 9264065002, 9264065003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	03/10/10 23:07	
Arsenic	ug/L	3.9J	10.0	03/10/10 23:07	
Barium	ug/L	ND	100	03/10/10 23:07	
Beryllium	ug/L	0.11J	1.0	03/10/10 23:07	
Cadmium	ug/L	ND	1.0	03/10/10 23:07	
Chromium	ug/L	ND	10.0	03/10/10 23:07	
Cobalt	ug/L	ND	10.0	03/10/10 23:07	
Copper	ug/L	ND	10.0	03/10/10 23:07	
Lead	ug/L	ND	10.0	03/10/10 23:07	
Nickel	ug/L	ND	50.0	03/10/10 23:07	
Selenium	ug/L	ND	10.0	03/10/10 23:07	
Silver	ug/L	ND	10.0	03/10/10 23:07	
Thallium	ug/L	ND	5.5	03/10/10 23:07	
Vanadium	ug/L	ND	25.0	03/10/10 23:07	
Zinc	ug/L	1.4J	10.0	03/10/10 23:07	

LABORATORY CONTROL SAMPLE: 409961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	499	100	80-120	
Arsenic	ug/L	500	480	96	80-120	
Barium	ug/L	500	466	93	80-120	
Beryllium	ug/L	500	504	101	80-120	
Cadmium	ug/L	500	480	96	80-120	
Chromium	ug/L	500	482	96	80-120	
Cobalt	ug/L	500	491	98	80-120	
Copper	ug/L	500	482	96	80-120	
Lead	ug/L	500	479	96	80-120	
Nickel	ug/L	500	485	97	80-120	
Selenium	ug/L	500	471	94	80-120	
Silver	ug/L	250	242	97	80-120	
Thallium	ug/L	500	463	93	80-120	
Vanadium	ug/L	500	485	97	80-120	
Zinc	ug/L	500	478	96	80-120	

MATRIX SPIKE SAMPLE: 409962

Parameter	Units	9263956001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	5.02	500	465	93	75-125	
Arsenic	ug/L	5.02	500	464	92	75-125	

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(704)875-9092

QUALITY CONTROL DATA

Project: CHEROKEE - SW
Pace Project No.: 9264065

MATRIX SPIKE SAMPLE: 409962

Parameter	Units	9263956001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	2170	500	2500	65	75-125	M0
Beryllium	ug/L	3.0	500	464	92	75-125	
Cadmium	ug/L	0.89J	500	427	85	75-125	
Chromium	ug/L	0.50J	500	430	86	75-125	
Cobalt	ug/L	9.1	500	437	86	75-125	
Copper	ug/L	5.02	500	448	90	75-125	
Lead	ug/L	5.02	500	415	83	75-125	
Nickel	ug/L	3.2J	500	427	85	75-125	
Selenium	ug/L	10.02	500	453	91	75-125	
Silver	ug/L	1.2J	250	223	89	75-125	
Thallium	ug/L	5.42	500	393	78	75-125	
Vanadium	ug/L	0.56J	500	439	88	75-125	
Zinc	ug/L	70.1	500	509	88	75-125	

SAMPLE DUPLICATE: 409963

Parameter	Units	9263956002 Result	Dup Result	RPD	Max RPD	Qualifiers
Antimony	ug/L	5.02	ND		25	
Arsenic	ug/L	3.4J	4.9J		25	
Barium	ug/L	186	174	7	25	
Beryllium	ug/L	0.34J	0.34J		25	
Cadmium	ug/L	1.02	ND		25	
Chromium	ug/L	0.85J	0.81J		25	
Cobalt	ug/L	34.2	32.7	4	25	
Copper	ug/L	3.6J	2.9J		25	
Lead	ug/L	5.02	ND		25	
Nickel	ug/L	10.9	10.8J	1	25	
Selenium	ug/L	10.02	ND		25	
Silver	ug/L	1.5J	1.4J		25	
Thallium	ug/L	5.42	ND		25	
Vanadium	ug/L	3.2J	2.7J		25	
Zinc	ug/L	5.0J	4.2J		25	

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QUALITY CONTROL DATA

Project: CHEROKEE - SW
Pace Project No.: 9264065

QC Batch: MSV/10114 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9264065001, 9264065002, 9264065003

METHOD BLANK: 408642 Matrix: Water
Associated Lab Samples: 9264065001, 9264065002, 9264065003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	02/28/10 10:30	
1,1,1-Trichloroethane	ug/L	ND	1.0	02/28/10 10:30	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	02/28/10 10:30	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/28/10 10:30	
1,1-Dichloroethane	ug/L	ND	5.0	02/28/10 10:30	
1,1-Dichloroethene	ug/L	ND	5.0	02/28/10 10:30	
1,2,3-Trichloropropane	ug/L	ND	1.0	02/28/10 10:30	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	02/28/10 10:30	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	02/28/10 10:30	
1,2-Dichlorobenzene	ug/L	ND	5.0	02/28/10 10:30	
1,2-Dichloroethane	ug/L	ND	1.0	02/28/10 10:30	
1,2-Dichloropropane	ug/L	ND	1.0	02/28/10 10:30	
1,3-Dichloropropane	ug/L	ND	1.0	02/28/10 10:30	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/28/10 10:30	
2-Butanone (MEK)	ug/L	ND	100	02/28/10 10:30	
2-Hexanone	ug/L	ND	50.0	02/28/10 10:30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	02/28/10 10:30	
Acetone	ug/L	ND	100	02/28/10 10:30	
Acrylonitrile	ug/L	ND	200	02/28/10 10:30	
Benzene	ug/L	ND	1.0	02/28/10 10:30	
Bromochloromethane	ug/L	ND	3.0	02/28/10 10:30	
Bromodichloromethane	ug/L	ND	1.0	02/28/10 10:30	
Bromoform	ug/L	ND	3.0	02/28/10 10:30	
Bromomethane	ug/L	ND	10.0	02/28/10 10:30	
Carbon disulfide	ug/L	ND	100	02/28/10 10:30	
Carbon tetrachloride	ug/L	ND	1.0	02/28/10 10:30	
Chlorobenzene	ug/L	ND	3.0	02/28/10 10:30	
Chloroethane	ug/L	ND	10.0	02/28/10 10:30	
Chloroform	ug/L	ND	5.0	02/28/10 10:30	
Chloromethane	ug/L	ND	1.0	02/28/10 10:30	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/28/10 10:30	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/28/10 10:30	
Dibromochloromethane	ug/L	ND	3.0	02/28/10 10:30	
Dibromomethane	ug/L	ND	10.0	02/28/10 10:30	
Ethylbenzene	ug/L	ND	1.0	02/28/10 10:30	
Iodomethane	ug/L	ND	10.0	02/28/10 10:30	
Methylene Chloride	ug/L	ND	2.0	02/28/10 10:30	
Styrene	ug/L	ND	1.0	02/28/10 10:30	
Tetrachloroethene	ug/L	ND	1.0	02/28/10 10:30	
Toluene	ug/L	ND	1.0	02/28/10 10:30	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/28/10 10:30	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/28/10 10:30	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	02/28/10 10:30	

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QUALITY CONTROL DATA

Project: CHEROKEE - SW
Pace Project No.: 9264065

METHOD BLANK: 408642 Matrix: Water

Associated Lab Samples: 9264065001, 9264065002, 9264065003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichloroethene	ug/L	ND	1.0	02/28/10 10:30	
Trichlorofluoromethane	ug/L	ND	1.0	02/28/10 10:30	
Vinyl acetate	ug/L	ND	50.0	02/28/10 10:30	
Vinyl chloride	ug/L	ND	1.0	02/28/10 10:30	
Xylene (Total)	ug/L	ND	2.0	02/28/10 10:30	
1,2-Dichloroethane-d4 (S)	%	93	79-120	02/28/10 10:30	
4-Bromofluorobenzene (S)	%	98	87-109	02/28/10 10:30	
Dibromofluoromethane (S)	%	104	85-115	02/28/10 10:30	
Toluene-d8 (S)	%	101	70-120	02/28/10 10:30	

LABORATORY CONTROL SAMPLE: 408643

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.1	100	83-125	
1,1,1-Trichloroethane	ug/L	50	51.4	103	80-129	
1,1,2,2-Tetrachloroethane	ug/L	50	48.4	97	73-127	
1,1,2-Trichloroethane	ug/L	50	52.2	104	77-123	
1,1-Dichloroethane	ug/L	50	55.3	111	76-129	
1,1-Dichloroethene	ug/L	50	50.1	100	78-146	
1,2,3-Trichloropropane	ug/L	50	49.4	99	72-125	
1,2-Dibromo-3-chloropropane	ug/L	50	43.1	86	65-128	
1,2-Dibromoethane (EDB)	ug/L	50	50.6	101	81-125	
1,2-Dichlorobenzene	ug/L	50	50.2	100	82-126	
1,2-Dichloroethane	ug/L	50	46.8	94	72-126	
1,2-Dichloropropane	ug/L	50	51.5	103	80-127	
1,3-Dichloropropane	ug/L	50	49.9	100	79-124	
1,4-Dichlorobenzene	ug/L	50	49.8	100	79-125	
2-Butanone (MEK)	ug/L	100	106	106	50-134	
2-Hexanone	ug/L	100	110	110	58-138	
4-Methyl-2-pentanone (MIBK)	ug/L	100	105	105	70-131	
Acetone	ug/L	100	126	126	50-146	
Acrylonitrile	ug/L	250	263	105	66-124	
Benzene	ug/L	50	52.4	105	78-128	
Bromochloromethane	ug/L	50	54.5	109	73-124	
Bromodichloromethane	ug/L	50	49.7	99	81-125	
Bromoform	ug/L	50	39.1	78	71-125	
Bromomethane	ug/L	50	39.1	78	50-150	
Carbon disulfide	ug/L	50	55.0J	110	54-150	
Carbon tetrachloride	ug/L	50	48.8	98	81-137	
Chlorobenzene	ug/L	50	51.5	103	82-126	
Chloroethane	ug/L	50	51.8	104	69-140	
Chloroform	ug/L	50	50.9	102	77-129	
Chloromethane	ug/L	50	47.1	94	54-139	
cis-1,2-Dichloroethene	ug/L	50	52.6	105	76-133	
cis-1,3-Dichloropropene	ug/L	50	52.9	106	76-127	

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QUALITY CONTROL DATA

Project: CHEROKEE - SW
Pace Project No.: 9264065

LABORATORY CONTROL SAMPLE: 408643

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	48.9	98	77-125	
Dibromomethane	ug/L	50	51.4	103	77-125	
Ethylbenzene	ug/L	50	51.7	103	80-127	
Iodomethane	ug/L	100	115	115	65-172	
Methylene Chloride	ug/L	50	41.8	84	67-133	
Styrene	ug/L	50	53.0	106	80-130	
Tetrachloroethene	ug/L	50	52.8	106	78-128	
Toluene	ug/L	50	52.1	104	76-126	
trans-1,2-Dichloroethene	ug/L	50	50.6	101	78-134	
trans-1,3-Dichloropropene	ug/L	50	51.2	102	75-125	
trans-1,4-Dichloro-2-butene	ug/L	50	47.6J	95	51-140	
Trichloroethene	ug/L	50	53.1	106	79-127	
Trichlorofluoromethane	ug/L	50	47.7	95	76-148	
Vinyl acetate	ug/L	100	121	121	50-150	
Vinyl chloride	ug/L	50	46.5	93	67-143	
Xylene (Total)	ug/L	150	159	106	83-125	
1,2-Dichloroethane-d4 (S)	%			91	79-120	
4-Bromofluorobenzene (S)	%			100	87-109	
Dibromofluoromethane (S)	%			101	85-115	
Toluene-d8 (S)	%			100	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 408644 408645

Parameter	Units	9264067011 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	59.0	57.6	118	115	60-150	2	30	
Benzene	ug/L	ND	50	50	57.1	56.7	114	113	74-136	1	30	
Chlorobenzene	ug/L	ND	50	50	56.4	55.8	113	112	79-135	1	30	
Toluene	ug/L	ND	50	50	57.9	57.2	116	114	73-131	1	30	
Trichloroethene	ug/L	ND	50	50	59.3	58.2	119	116	73-131	2	30	
1,2-Dichloroethane-d4 (S)	%						98	96	79-120			
4-Bromofluorobenzene (S)	%						102	101	87-109			
Dibromofluoromethane (S)	%						102	100	85-115			
Toluene-d8 (S)	%						100	100	70-120			

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QUALIFIERS

Project: CHEROKEE - SW
Pace Project No.: 9264065

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.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

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

ANALYTE QUALIFIERS

M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1352602

Section A Required Client Information:

Company: Municipal Engineering Services (MESCO)
Address: PO Box 97
Gainer NC 27529
Email To: jpfohl@mesco.com
Phone: (919) 772-5343 Fax: (919) 772-1176
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: Jonathan Pfohl
Copy To:
Purchase Order No.:
Project Name: Cherokee - SW
Project Number:

Section C Invoice Information:

Attention: See A
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: BONNIE
Pace Profile #: 2103-3

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER

Site Location STATE: NC

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N): 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: VOCs - App I	Metals - App I	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SW-1	WT	G			2/23/10	11:00		4			1	3					✓	✓	N	001
2	SW-2	↓	↓			↓	1:55		↓			↓	↓					✓	✓	↓	002
3	SW-4	↓	↓			↓	2:20		↓			↓	↓					✓	✓	↓	003
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Valley River Between Closed & Lined	MESCO	2/25/10	940	Pace	2/25/10	940				
	Pace	2/25/10	1310	J Moore / Pace	2/25	1310	4.6	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jonathan Pfohl

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY): 2/24/10

*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

Field Sampling Parameter Data Sheet(s)

Sampling Data Sheet

Municipal Services Engineering Company
Garner, NC Boone, NC

Project: Cherokee County MSWLF-SW SHARED

Samplers: J. Pfohl

Monitoring Point	Sample Date	Sample Time	Sampling Parameters							Water Quality Parameters								
			Depth to Water (BTOP) Static	Lab Parameters to be analyzed for	Volume Purged (Gal)	Sample Type	Goes Dry During Purge	Comments	Total Depth	Cl^- (mg/l)	DO (mg/L)	ORP	pH	Temp. ©	Specific Cond. (us/cm	TDS (mg/L)	Turbidity	CH4 (ppm)
SW-1	2/23/10	11:00	–	App I	–	Dip	–	High volume & Flow	–	NR	7.1	109	6.56	8.5	33	15	ST	NR
SW-2	2/23/10	1:55	–	App I	–	Dip	–	↓	–	↓	7.2	93	6.62	8.4	29	11	ST	↓
SW-4	2/23/10	2:20	–	App I	–	Dip	–	↓	–	↓	7.2	101	6.70	8.5	28	12	ST	↓

Comments

SS B=Stainless Steel Baler, D B=Disposable Baler, P=Low flow Pump, PD=Purged Dry

VT=Very Turbid, MT=Moderately Turbid, ST=Slightly Turbid, C=Clear

NR=No Reading Attempted, NS=No Sample Obtained

Sampling Data Sheet

Municipal Services Engineering Company — Garner, NC — Boone, NC

Project: Cherokee County Subtitle D MSWLF, Phases 1 & 2

Samplers: J. Pfohl

P. 1 of 1

Monitoring Point	Sample Date	Sample Time	Sampling Parameters: Depth to Water (BTOP) Static Sample Time	Lab Parameters to be analyzed for	Volume Purged (Gal)	Sample Type	Goes Dry During Purge	Comments	Total Depth	Water Quality Parameters: Cl⁻ (mg/l)	DO (mg/L)	ORP	pH	Temp. ©	Specific Cond. (us/cm	TDS (mg/L)	Turbidity	CH4 (ppm)	▽ BTOP 2/24/10
MW-1	2/24/10	9:30	94.21	App I VOCs, chloride	3	DB	Y	All App II except PCBs/SVOCs	107 Fresh	NR	0.9	139	5.21	13.8	128	62	ST	NR	
MW-2	2/24/10	9:20	54.92	App I	2.5	DB	Y		58	NR	2.8	184	5.68	13.8	64	28	ST	NR	
MW-3	2/24/10	10:15	30.46	App I	4	P&DB	N		38.5	NR	2.9	219	5.78	14.6	36	19	C	NR	
MW-4	2/23/10	11:15	16.58	App I	5	P&DB	N	16.57 @ 2/24/10	27	NR	0.9	221	5.91	13.9	42	17	C	NR	16.57'
MW-5	2/24/10	1:00	7.04	App I	3	DB	Y		12.28' BTOP	NR	3.2	30	6.36	14.5	76	29	C	NR	
MW-6S	2/24/10	4:10	14.85	App II 1	4	P&DB	N		20	NR	0.4	48	5.67	14.9	257	127	C	NR	
MW-6D	2/24/10	3:10	24.95	App II 2	10	P&DB	N		50	NR	0.2	-76	6.56	15.7	819	409	C	NR	
MW-7	2/24/10	2:20	19.08	App II 3	4	P&DB	Y		25	NR	1.0	35	5.74	14.2	303	153	C	NR	
MW-8	2/24/10	1:30	11.42	App II 4	5	DB	N		15	NR	1.9	237	6.08	12.6	124	61	ST	NR	
MW-9	2/23/10	5:00	21.00	App I	4	P&DB	N		30	NR		218	5.36	13.8	13	6	C	NR	
P-18	2/24/10	12:30	9.16	App I VOCs	6	DB	N	1" Pad cracked	16.6'	NR	3.0	26	6.81	14.5	71	32	ST	NR	
P-4	NS	–	2.81	WLR ONLY		NS													
P-17	NS	–	11.12	WLR ONLY															
P-19	NS	–	7.93	WLR ONLY															
P2-5S	NS	NS	87.19	WLR ONLY															
P2-5D	NS	NS	100.75	WLR ONLY															
LAGOON	2/24/10	4:00	–	Leachate	–		–		–									–	

Comments

SS B=Stainless Steel Baler, D B=Disposable Baler, P=Low flow Pump, PD=Purged Dry

VT=Very Turbid, MT=Moderately Turbid, ST=Slightly Turbid, C=Clear

NR=No Reading Attempted, NS=No Sample Obtained