SEDIMENT BASIN LEACHATE SUMMARY REPORT
CHEROKEE COUNTY LANDFILL
10160 US 19/74/129
MARBLE, NORTH CAROLINA 28905
PERMIT No. 20-02

MUNICIPAL ENGINEERING SERVICES COMPANY, PA.
PROJECT # G08076.0

July 3, 2008

Property Information:

Land Use:	MSW Landfill
Current Property Owner:	Cherokee County c/o Mr. Robert Allen, Solid Waste Director 75 Peachtree Street Murphy, North Carolina, 28906
Primary Consultant:	Municipal Engineering Services Company, P.A. P.O. Box 97 Garner, NC 27539 (919) 772-5393
Laboratory Consultant:	Environmental Conservation Laboratories Inc. 102-A Woodwinds Industrial Court Cary, North Carolina 27511 (919) 467-3090

Breakout Information:

Date Discovered:	December 18, 2007
Latitude/Longitude:	N 35° 10’ 50.1”/ W 83° 54’ 33.3”
Estimated Quantity of Release:	Unknown
Cause of Release:	Rain
Source of Release:	Leachate Collected in Sediment Basin at edge of liner

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1 INTRODUCTION

In response to the Compliance Order with Administrative Penalty issued by the North Carolina Department of Environment and Natural Resources - Division of Waste Management (NCDENR) on January 31, 2008, Municipal Engineering Services Company, PA (MESCO) has prepared this Summary Report in association with leachate observed in a sediment basin at the edge of the landfill. This report and all field activities were performed in accordance with Guidelines for Assessment and Corrective Action, State of North Carolina, Department of Environment and Natural Resources Division of Waste Management.

1.1 Location and Description

As part of a facility audit performed by NCDENR on December 18, 2007, standing leachate was observed in a sediment basin at the edge of the landfill. A topographical map with site location is included as Plate 1. A site map is included as Plate 2.

Cherokee County drained the sediment basin by pumping the water to the leachate lagoon. Additionally, the sediment basin was filled with clean soil. MESCO collected soil samples and groundwater samples from the site in February 2008. This report summarizes the results and actions taken.

2 SITE GEOLOGY AND HYDROLOGY

2.1 Topography and Drainage Features

The site lies within the Blue Ridge physiographic province that is characterized by steep slopes dissected by drainage features and deep soils. Generally, the site is bound on the east by an unnamed stream that empties into Valley River, on the south by Valley River, and on the north by US Highway 19/74/129. Surface drainage is south and southeast into Valley River.

2.2 Geology/Hydrology

Geologically the site is in the Murphy Marble Belt, consisting of a sinuous northeast tending structure which extends nearly 100 miles. The Murphy Marble Belt is comprised of seven formations, with the Mineral Bluff Formation and the Andrews Formation underlying the site. The Mineral Bluff Formation consists of pelitic phyllites and schists with intercalated thin and discontinuous quartzites. The Andrews Formation consists of impure marble and biotite schist.

Unconsolidated regolith over the two formations consists of saprolitic sand-silt mix. The thickness of the saturated saprolite is generally 10 to 20 feet across the site.

Groundwater is encountered in both saprolite and fractured bedrock. Groundwater flow is south – southeast toward Valley River. Valley River serves as the primary discharge for the site. Groundwater elevation varies throughout the site. Groundwater is as much as 100 feet below ground surface (bgs) in MW-1 and 10-15 ft bgs near the river.

3 IDENTIFICATION OF IMPACT

3.1 Soil Sampling

Fill soil in the sediment basin was excavated to just below the bottom of the sediment basin. Soil samples were collected on February 19, 2008. Two (2) soil samples (HA-2 and HA-3) were collected from the basin. A background soil sample (HA-1) was collected from an upgradient location. Locations of the samples are shown on Plate 2. The samples were analyzed for Appendix I VOC's and Appendix I metals.

3.2 Groundwater Sampling

Water samples were collected from monitoring wells MW-1, MW-2, MW-3 and MW-4 on February 18 and 19, 2008. MW-1 is the background monitoring well for the site. MW-2, MW-3 and MW-4 are located hydraulically downgradient of the sediment basin. Samples were analyzed for Appendix I Organics and Appendix I Metals.

4 RESULTS

4.1 Soil Results

A summary of soil laboratory results is provided on Table 1. Several inorganic metals (Antimony, Arsenic, Barium Chromium, Cobalt, Copper, Lead, Nickel Vanadium and Zinc) were detected in the background soil sample. There were no inorganics detected in the sediment basin that were not detected in the background sample. Acetone was detected in all three samples with a J qualifier code. The low level acetone may be attributed to laboratory cross contamination.

4.2 Groundwater Results

A summary of groundwater laboratory results is provided on Table 2. Several constituents were detected. Background well MW-1 had detected Barium Chromium, Cobalt, Copper, Lead, Thallium, Vanadium, and Zinc. Monitoring well MW-2 had detected Zinc. Monitoring well

MW-3 had detected Barium, Beryllium, Chromium, Cobalt, Lead, Nickel, Thallium, Vanadium, and Zinc. Only Beryllium and Nickel, detected in MW-3, were not detected in the background well. Statistical analysis performed for the February 2008 semi annual sampling did not identify Beryllium or Nickel as being statistically significant.

5 CONCLUSIONS/ACTION TAKEN

The following conclusions were made based on the sample results:

- There is no indication that the leachate was released from the site.
- Sample results for both soil and groundwater are not above background levels

Based on these observations it is concluded that there is no soil or groundwater contamination associated with the sediment basin leachate. No action was required. The site will continue to have groundwater and surface water monitoring on a semi annual basis, in accordance with the terms of the Cherokee County Sampling and Analysis Plan.

This report summary concludes the requirements for the Compliance Order from the Division of Waste Management. All data, information and conclusions contained herein indicate no hindrance to the current operations and procedures of the landfill.

Respectfully submitted
MUNICIPAL ENGINEERING SERVICES COMPANY, P.A.

Ethan J. Caldwell, P.G.
Professional Geologist

NORTH CAROLINA LICENSED SEAL 1931 GEOLOGIST ETHAN J. CALDWELL

Table 1
Cherokee Landfill -Sediment Basin Leachate Summary

Well ID	Parameter Name[1]	Sample Date	Result	Unit	PQL[2]	Qual Code	NCREG[3]	Exceedance
HA-1	Acetone	02/19/2008	35	ug/L	2.7	J	700	
HA-1	Antimony	02/19/2008	2.82	mg/kg	0.15	J	-	
HA-1	Arsenic	02/19/2008	53.4	mg/kg	0.09	B	-	
HA-1	Barium	02/19/2008	53.2	mg/kg	0.069	J	848	
HA-1	Chromium	02/19/2008	12.1	mg/kg	0.07		27	
HA-1	Cobalt	02/19/2008	2.45	mg/kg	0.07	J	-	
HA-1	Copper	02/19/2008	1790	mg/kg	0.260		-	
HA-1	Lead	02/19/2008	9.78	mg/kg	0.16	J	270	
HA-1	Nickel	02/19/2008	33.9	mg/kg	0.49	J	-	
HA-1	Vanadium	02/19/2008	31.1	mg/kg	0.069		-	
HA-1	Zinc	02/19/2008	2020	mg/kg	0.069	B	-	
HA-2	Acetone	02/19/2008	12	ug/L	2.7	J	700	
HA-2	Arsenic	02/19/2008	0.51	mg/kg	0.09	JB	-	
HA-2	Barium	02/19/2008	18.7	mg/kg	0.069	J	848	
HA-2	Chromium	02/19/2008	10.9	mg/kg	0.07		27	
HA-2	Cobalt	02/19/2008	0.41	mg/kg	0.07	J	-	
HA-2	Lead	02/19/2008	10.6	mg/kg	0.17		270	
HA-2	Nickel	02/19/2008	1.76	mg/kg	0.50	J	-	
HA-2	Vanadium	02/19/2008	25.1	mg/kg	0.069		-	
HA-2	Zinc	02/19/2008	13.4	mg/kg	0.069	B	-	
HA-3	Acetone	02/19/2008	11	ug/L	3.0	J	700	
HA-3	Arsenic	02/19/2008	0.88	mg/kg	0.08	B,J	-	
HA-3	Barium	02/19/2008	14.9	mg/kg	0.063	J	848	
HA-3	Chromium	02/19/2008	20.1	mg/kg	0.07		27	
HA-3	Lead	02/19/2008	9.88	mg/kg	0.15	J	270	
HA-3	Vanadium	02/19/2008	33	mg/kg	0.063		-	
HA-3	Zinc	02/19/2008	12.3	mg/kg	0.063	B	-	

[1] Table only contains detected constituents.
[2] PQL = Practical Quantitation Limit
[3] NCREG = North Carolina Soil-to-Water Maximum Contamination Concentration

Table 2
Cherokee Landfill -Sediment Basin Leachate Summary

Well ID	Parameter Name[1]	Sample Date	Result	Unit	MDL[4]	SWSL [2]	NCGW2L[3]	GWP[5]	Exceedance	Preliminary Cause
MW-1	Barium	02/18/08	202	ug/L	0.20	100	2000			
MW-1	**Chromium**	**02/18/08**	**62.4**	**ug/L**	**2.0**	**10**	**50**		**12.4**	**Natural**
MW-1	Cobalt	02/18/08	33.1	ug/L	2.0	10		70		
MW-1	Copper	02/18/08	57.2	ug/L	0.60	10	1000			
MW-1	**Lead**	**02/18/08**	**39.5**	**ug/L**	**2.0**	**10**	**15**		**24.5**	**Natural**
MW-1	Thallium	02/18/08	0.883	ug/L	0.036	5.5		0.28		
MW-1	Vanadium	02/18/08	52.6	ug/L	1.0	25		3.5		
MW-1	Zinc	02/18/08	98	ug/L	1.0	10	1050			
MW-2	Zinc	02/19/08	14.8	ug/L	1.0	10	1050			
MW-3	Barium	02/19/08	557	ug/L	0.20	100	2000			
MW-3	Beryllium	02/19/08	5.3	ug/L	0.70	1		2		
MW-3	**Chromium**	**02/19/08**	**77.7**	**ug/L**	**2.0**	**10**	**50**		**27.7**	**Natural**
MW-3	Cobalt	02/19/08	52.8	ug/L	2.0	10		70		
MW-3	**Lead**	**02/19/08**	**52.7**	**ug/L**	**2.0**	**10**	**15**		**37.7**	**Natural**
MW-3	Nickel	02/19/08	60.7	ug/L	2.0	50	100			
MW-3	Thallium	02/19/08	0.889	ug/L	0.036	5.5		0.28		
MW-3	Vanadium	02/19/08	40.5	ug/L	1.0	25		3.5		
MW-3	Zinc	02/19/08	252	ug/L	1.0	10	1050			

[1] Table only contains detected constituents

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

[3] NCGW2L = North Carolina Ground Water 2L Standard

[4] MDL = Method Detection Limit

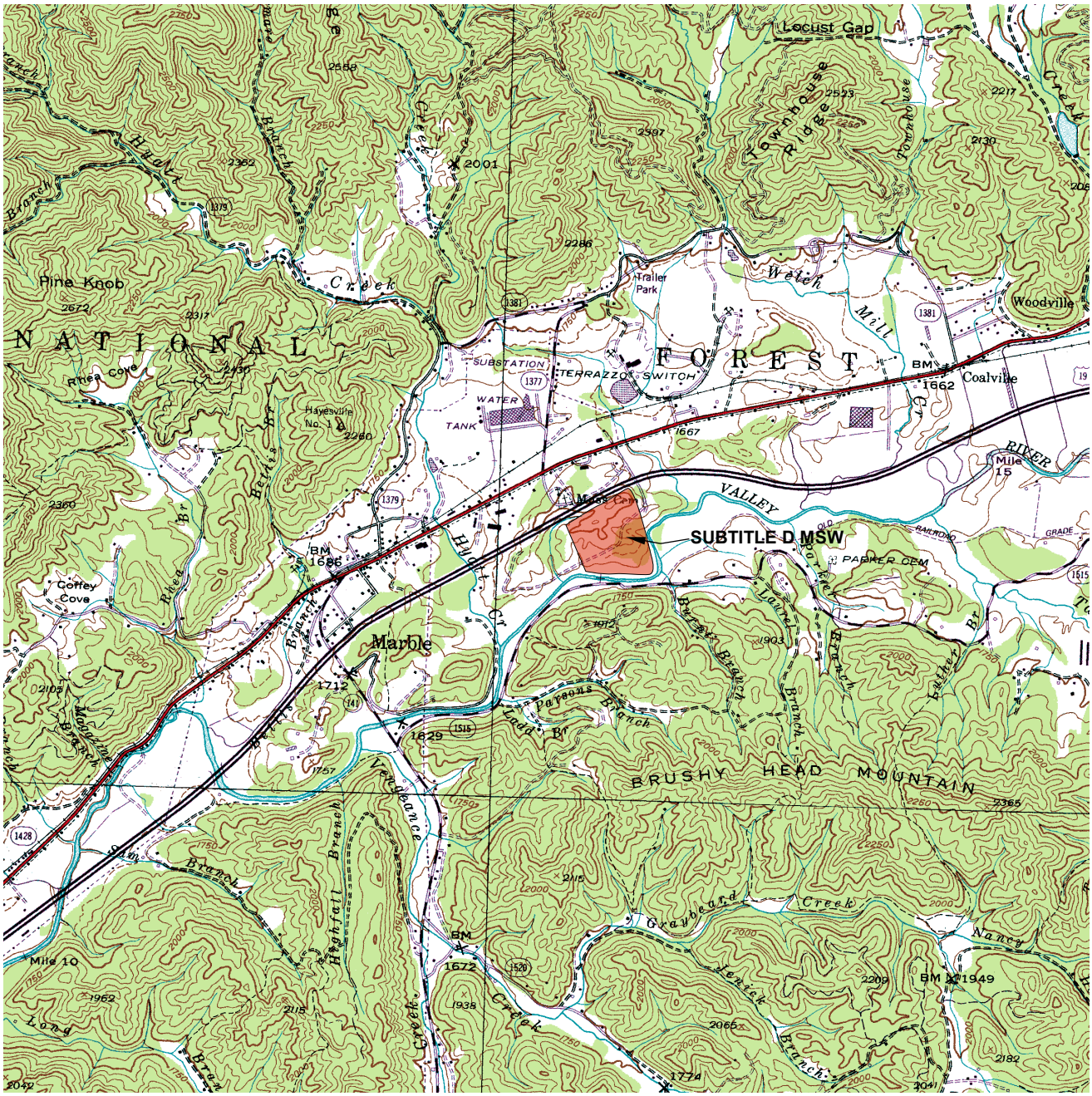
[4] GWP = Groundwater Protection Standard (Current as of Sampling Event)

NE = Not Established

Topographic Map with Landfill Location

Cherokee County Landfill

PLATE 1



QUADRANGLE LEGEND

ROAD CLASSIFICATION

Primary highway, hard surface

Light-duty road, hard or improved surface

Secondary highway, hard surface

Unimproved road

Interstate Route

U. S. Route

State Route

NOTE: Topographical map assembled from corresponding USGS 7.5-min. quadrangles of the subject region.

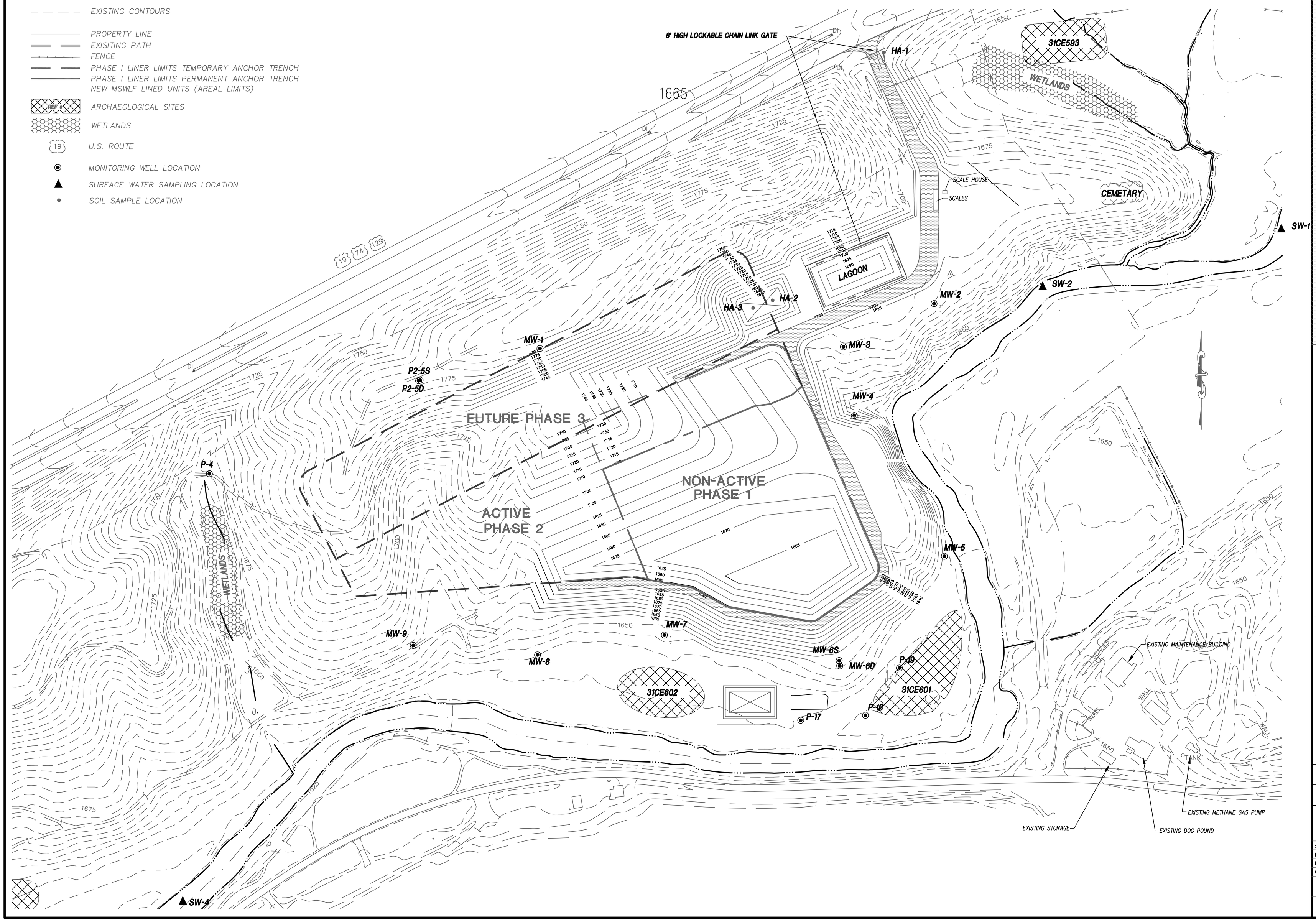
Date Completed	07/03/2008
Created By	M. German
Project Name	Leachate Summary Report
Site Name	Cherokee County Landfill
Project Number	G08076.0

Municipal Engineering Services Company, PA

1 0 1 MILE

LEGEND

- EXISTING CONTOURS
- 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
- MONITORING WELL LOCATION
- SURFACE WATER SAMPLING LOCATION
- SOIL SAMPLE LOCATION



Municipal Engineering Services Company, P.A.
P.O. BOX 97 GARNER, N.C. 27529 (919) 772-5393
P.O. BOX 349 BOONE, N.C. 27529 (704) 262-1767

SUBTITLE D LINED LANDFILL
CHEROKEE COUNTY NORTH CAROLINA

DATE	BY	REV.	DESCRIPTION

SOIL SAMPLE LOCATIONS

SCALE:	1"=100'
DATE:	7/2/08
DRWN. BY:	E. CALDWELL
CHKD. BY:	E. CALDWELL
PROJECT NUMBER	G01009.0
DRAWING NO.	PLATE 2
SHEET NO.	

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

Thursday, February 28, 2008

Municipal Engineering Services (MU001)

Attn: Jonathan Pfohl

P.O. Box 97

Garner, NC 27529

RE: Laboratory Results for
Project Number: G08007.0, Project Name/Desc: Cherokee Co. Subtitle D LF
ENCO Workorder: C801625

Dear Jonathan Pfohl,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Wednesday, February 20, 2008.

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

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

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

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

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 19.

CASE NARRATIVE

Date: February 28, 2008
Client: Municipal Engineering Services
Project #: Cherokee Co Subtitle D LF
Lab ID: C801625

Overview

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

Quality Control Samples

No Comments

Quality Control Remarks

Metals The poor recovery of Antimony, Arsenic, Cadmium, Copper, Lead, Nickel, Selenium, Silver, Thallium, Vanadium and Zinc in the MS/MSD was due to a source sample matrix effect. The data has been released based on acceptable LCS recoveries.

Other Comments

None

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

Released By:
Environmental Conservation Laboratories, Inc.

Chuck Smith
Project Manager

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID:	HA-1	Lab ID:	C801625-01	Sampled:	02/19/08 15:50	Received:	02/20/08 17:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	08/17/08	02/25/08 07:08	2/26/2008 17:33
EPA 6010B	08/17/08	02/25/08 07:08	2/26/2008 17:33
EPA 8260B	03/04/08	02/23/08 12:45	2/26/2008 20:58

Client ID:	HA-2	Lab ID:	C801625-02	Sampled:	02/19/08 16:00	Received:	02/20/08 17:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	08/17/08	02/25/08 07:08	2/26/2008 18:01
EPA 6010B	08/17/08	02/25/08 07:08	2/26/2008 18:01
EPA 8260B	03/04/08	02/23/08 12:45	2/26/2008 21:29

Client ID:	HA-3	Lab ID:	C801625-03	Sampled:	02/19/08 16:30	Received:	02/20/08 17:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	08/17/08	02/25/08 07:08	2/26/2008 18:08
EPA 6010B	08/17/08	02/25/08 07:08	2/26/2008 18:08
EPA 8260B	03/04/08	02/23/08 12:45	2/26/2008 21:59

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: HA-1 **Lab ID:** C801625-01

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Acetone	35	J	1	2.7	4.0	100	ug/L	EPA 8260B	
Antimony	2.82	J	1	0.15	0.69	6	mg/kg dry	EPA 6010B	
Arsenic	53.4	B	1	0.09	0.69	10	mg/kg dry	EPA 6010B	
Barium	53.2	J	1	0.069	0.686	100	mg/kg dry	EPA 6010B	
Chromium	12.1		1	0.07	0.69	10	mg/kg dry	EPA 6010B	
Cobalt	2.45	J	1	0.07	0.69	10	mg/kg dry	EPA 6010B	
Copper	1790		1	0.260	0.686	10	mg/kg dry	EPA 6010B	
Lead	9.78	J	1	0.16	0.69	10	mg/kg dry	EPA 6010B	
Nickel	33.9	J	1	0.49	0.69	50	mg/kg dry	EPA 6010B	
Vanadium	31.1		1	0.069	0.686	25	mg/kg dry	EPA 6010B	
Zinc	2020	B	1	0.069	0.686	10	mg/kg dry	EPA 6010B	

Client ID: HA-2 **Lab ID:** C801625-02

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Acetone	12	J	1	2.7	4.0	100	ug/L	EPA 8260B	
Arsenic	0.51	JB	1	0.09	0.69	10	mg/kg dry	EPA 6010B	
Barium	18.7	J	1	0.069	0.694	100	mg/kg dry	EPA 6010B	
Chromium	10.9		1	0.07	0.69	10	mg/kg dry	EPA 6010B	
Cobalt	0.41	J	1	0.07	0.69	10	mg/kg dry	EPA 6010B	
Lead	10.6		1	0.17	0.69	10	mg/kg dry	EPA 6010B	
Nickel	1.76	J	1	0.50	0.69	50	mg/kg dry	EPA 6010B	
Vanadium	25.1		1	0.069	0.694	25	mg/kg dry	EPA 6010B	
Zinc	13.4	B	1	0.069	0.694	10	mg/kg dry	EPA 6010B	

Client ID: HA-3 **Lab ID:** C801625-03

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Acetone	11	J	1	3.0	4.4	100	ug/L	EPA 8260B	
Arsenic	0.88	JB	1	0.08	0.63	10	mg/kg dry	EPA 6010B	
Barium	14.9	J	1	0.063	0.628	100	mg/kg dry	EPA 6010B	
Chromium	20.1		1	0.07	0.63	10	mg/kg dry	EPA 6010B	
Lead	9.88	J	1	0.15	0.63	10	mg/kg dry	EPA 6010B	
Vanadium	33.0		1	0.063	0.628	25	mg/kg dry	EPA 6010B	
Zinc	12.3	B	1	0.063	0.628	10	mg/kg dry	EPA 6010B	

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ANALYTICAL RESULTS

Description:	HA-1	**Lab Sample ID:**	C801625-01	**Received:**	02/20/08 17:00
Matrix:	Soil	**Sampled:**	02/19/08 15:50	**Work Order:**	C801625
Project:	Cherokee Co. Subtitle D LF	**Sampled By:**	J. Pfohl	**% Solids:**	72.9

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**2.82**	J	mg/kg dry	1	0.15	0.69	6	EPA 6010B	02/26/08 17:33	VLO	
Arsenic [7440-38-2] ^	**53.4**	B	mg/kg dry	1	0.09	0.69	10	EPA 6010B	02/26/08 17:33	VLO	
Barium [7440-39-3] ^	**53.2**	J	mg/kg dry	1	0.069	0.686	100	EPA 6010B	02/26/08 17:33	VLO	
Beryllium [7440-41-7] ^	0.016	U	mg/kg dry	1	0.016	0.069	1	EPA 6010B	02/26/08 17:33	VLO	
Cadmium [7440-43-9] ^	0.013	U	mg/kg dry	1	0.013	0.069	1	EPA 6010B	02/26/08 17:33	VLO	
Chromium [7440-47-3] ^	**12.1**		mg/kg dry	1	0.07	0.69	10	EPA 6010B	02/26/08 17:33	VLO	
Cobalt [7440-48-4] ^	**2.45**	J	mg/kg dry	1	0.07	0.69	10	EPA 6010B	02/26/08 17:33	VLO	
Copper [7440-50-8] ^	**1790**		mg/kg dry	1	0.260	0.686	10	EPA 6010B	02/26/08 17:33	VLO	
Lead [7439-92-1] ^	**9.78**	J	mg/kg dry	1	0.16	0.69	10	EPA 6010B	02/26/08 17:33	VLO	
Nickel [7440-02-0] ^	**33.9**	J	mg/kg dry	1	0.49	0.69	50	EPA 6010B	02/26/08 17:33	VLO	
Selenium [7782-49-2] ^	0.13	U	mg/kg dry	1	0.13	0.69	10	EPA 6010B	02/26/08 17:33	VLO	
Silver [7440-22-4] ^	0.07	U	mg/kg dry	1	0.07	0.69	10	EPA 6010B	02/26/08 17:33	VLO	
Thallium [7440-28-0] ^	0.27	U	mg/kg dry	1	0.27	0.69	5.5	EPA 6010B	02/26/08 17:33	VLO	
Vanadium [7440-62-2] ^	**31.1**		mg/kg dry	1	0.069	0.686	25	EPA 6010B	02/26/08 17:33	VLO	
Zinc [7440-66-6] ^	**2020**	B	mg/kg dry	1	0.069	0.686	10	EPA 6010B	02/26/08 17:33	VLO	

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Description:	HA-1	**Lab Sample ID:**	C801625-01	**Received:**	02/20/08 17:00
Matrix:	Soil	**Sampled:**	02/19/08 15:50	**Work Order:**	C801625
Project:	Cherokee Co. Subtitle D LF	**Sampled By:**	J. Pfohl	**% Solids:**	72.9

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.69	U	ug/L	1	0.69	0.79	5	EPA 8260B	02/26/08 20:58	kdm	
1,1,1-Trichloroethane [71-55-6] ^	0.73	U	ug/L	1	0.73	0.79	1	EPA 8260B	02/26/08 20:58	kdm	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.79	U	ug/L	1	0.79	0.79	3	EPA 8260B	02/26/08 20:58	kdm	
1,1,2-Trichloroethane [79-00-5] ^	0.69	U	ug/L	1	0.69	0.79	1	EPA 8260B	02/26/08 20:58	kdm	
1,1-Dichloroethane [75-34-3] ^	0.79	U	ug/L	1	0.79	0.79	5	EPA 8260B	02/26/08 20:58	kdm	
1,1-Dichloroethene [75-35-4] ^	0.77	U	ug/L	1	0.77	0.79	5	EPA 8260B	02/26/08 20:58	kdm	
1,2,3-Trichloropropane [96-18-4] ^	0.76	U	ug/L	1	0.76	0.79	1	EPA 8260B	02/26/08 20:58	kdm	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.79	U	ug/L	1	0.79	0.79	13	EPA 8260B	02/26/08 20:58	kdm	
1,2-Dibromoethane [106-93-4] ^	0.41	U	ug/L	1	0.41	0.79	1	EPA 8260B	02/26/08 20:58	kdm	
1,2-Dichlorobenzene [95-50-1] ^	0.79	U	ug/L	1	0.79	0.79	5	EPA 8260B	02/26/08 20:58	kdm	
1,2-Dichloroethane [107-06-2] ^	0.72	U	ug/L	1	0.72	0.79	1	EPA 8260B	02/26/08 20:58	kdm	
1,2-Dichloropropane [78-87-5] ^	0.76	U	ug/L	1	0.76	0.79	1	EPA 8260B	02/26/08 20:58	kdm	
1,4-Dichlorobenzene [106-46-7] ^	0.40	U	ug/L	1	0.40	0.79	1	EPA 8260B	02/26/08 20:58	kdm	
2-Butanone [78-93-3] ^	3.9	U	ug/L	1	3.9	4.0	100	EPA 8260B	02/26/08 20:58	kdm	
2-Hexanone [591-78-6] ^	0.71	U	ug/L	1	0.71	0.79	50	EPA 8260B	02/26/08 20:58	kdm	
4-Methyl-2-pentanone [108-10-1] ^	1.4	U	ug/L	1	1.4	4.0	100	EPA 8260B	02/26/08 20:58	kdm	
Acetone [67-64-1] ^	**35**	J	ug/L	1	2.7	4.0	100	EPA 8260B	02/26/08 20:58	kdm	
Acrylonitrile [107-13-1] ^	7.9	U	ug/L	1	7.9	7.9	200	EPA 8260B	02/26/08 20:58	kdm	
Benzene [71-43-2] ^	0.60	U	ug/L	1	0.60	0.79	1	EPA 8260B	02/26/08 20:58	kdm	
Bromochloromethane [74-97-5] ^	0.76	U	ug/L	1	0.76	0.79	3	EPA 8260B	02/26/08 20:58	kdm	
Bromodichloromethane [75-27-4] ^	0.52	U	ug/L	1	0.52	0.79	1	EPA 8260B	02/26/08 20:58	kdm	
Bromoform [75-25-2] ^	0.45	U	ug/L	1	0.45	0.79	3	EPA 8260B	02/26/08 20:58	kdm	
Bromomethane [74-83-9] ^	0.71	U	ug/L	1	0.71	0.79	10	EPA 8260B	02/26/08 20:58	kdm	
Carbon disulfide [75-15-0] ^	0.77	U	ug/L	1	0.77	0.79	100	EPA 8260B	02/26/08 20:58	kdm	
Carbon tetrachloride [56-23-5] ^	0.65	U	ug/L	1	0.65	0.79	1	EPA 8260B	02/26/08 20:58	kdm	
Chlorobenzene [108-90-7] ^	0.37	U	ug/L	1	0.37	0.79	3	EPA 8260B	02/26/08 20:58	kdm	
Chloroethane [75-00-3] ^	0.78	U	ug/L	1	0.78	0.79	10	EPA 8260B	02/26/08 20:58	kdm	
Chloroform [67-66-3] ^	0.75	U	ug/L	1	0.75	0.79	5	EPA 8260B	02/26/08 20:58	kdm	
Chloromethane [74-87-3] ^	0.78	U	ug/L	1	0.78	0.79	1	EPA 8260B	02/26/08 20:58	kdm	
cis-1,2-Dichloroethene [156-59-2] ^	0.79	U	ug/L	1	0.79	0.79	5	EPA 8260B	02/26/08 20:58	kdm	
cis-1,3-Dichloropropene [10061-01-5] ^	0.60	U	ug/L	1	0.60	0.79	1	EPA 8260B	02/26/08 20:58	kdm	
Dibromochloromethane [124-48-1] ^	0.75	U	ug/L	1	0.75	0.79	3	EPA 8260B	02/26/08 20:58	kdm	
Dibromomethane [74-95-3] ^	0.64	U	ug/L	1	0.64	0.79	10	EPA 8260B	02/26/08 20:58	kdm	
Ethylbenzene [100-41-4] ^	0.45	U	ug/L	1	0.45	0.79	1	EPA 8260B	02/26/08 20:58	kdm	
Iodomethane [74-88-4] ^	0.59	U	ug/L	1	0.59	0.79	10	EPA 8260B	02/26/08 20:58	kdm	
m,p-Xylenes [108-38-3/106-42-3]	0.79	U	ug/L	1	0.79	0.79	NE	EPA 8260B	02/26/08 20:58	kdm	
Methylene chloride [75-09-2] ^	2.2	U	ug/L	1	2.2	4.0	1	EPA 8260B	02/26/08 20:58	kdm	
o-Xylene [95-47-6]	0.38	U	ug/L	1	0.38	0.79	NE	EPA 8260B	02/26/08 20:58	kdm	
Styrene [100-42-5] ^	0.64	U	ug/L	1	0.64	0.79	1	EPA 8260B	02/26/08 20:58	kdm	
Tetrachloroethene [127-18-4] ^	0.67	U	ug/L	1	0.67	0.79	1	EPA 8260B	02/26/08 20:58	kdm	
Toluene [108-88-3] ^	0.76	U	ug/L	1	0.76	0.79	1	EPA 8260B	02/26/08 20:58	kdm	
trans-1,2-Dichloroethene [156-60-5] ^	0.79	U	ug/L	1	0.79	0.79	5	EPA 8260B	02/26/08 20:58	kdm	
trans-1,3-Dichloropropene [10061-02-6] ^	0.79	U	ug/L	1	0.79	0.79	1	EPA 8260B	02/26/08 20:58	kdm	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.72	U	ug/L	1	0.72	0.79	100	EPA 8260B	02/26/08 20:58	kdm	
Trichloroethene [79-01-6] ^	0.42	U	ug/L	1	0.42	0.79	1	EPA 8260B	02/26/08 20:58	kdm	
Trichlorofluoromethane [75-69-4] ^	0.72	U	ug/L	1	0.72	0.79	1	EPA 8260B	02/26/08 20:58	kdm	

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Description:	HA-1	**Lab Sample ID:**	C801625-01	**Received:**	02/20/08 17:00
Matrix:	Soil	**Sampled:**	02/19/08 15:50	**Work Order:**	C801625
Project:	Cherokee Co. Subtitle D LF	**Sampled By:**	J. Pfohl	**% Solids:**	72.9

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl acetate [108-05-4] ^	0.79	U	ug/L	1	0.79	0.79	50	EPA 8260B	02/26/08 20:58	kdm	
Vinyl chloride [75-01-4] ^	0.68	U	ug/L	1	0.68	0.79	1	EPA 8260B	02/26/08 20:58	kdm	
Xylenes (Total) [1330-20-7] ^	0.79	U	ug/L	1	0.79	0.79	5	EPA 8260B	02/26/08 20:58	kdm	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*63*	*1*	*50.0*	*125 %*	*65-121*	*8B26029*	*EPA 8260B*	*02/26/08 20:58*	*kdm*	*QA-03*
Dibromofluoromethane	*62*	*1*	*50.0*	*124 %*	*69-143*	*8B26029*	*EPA 8260B*	*02/26/08 20:58*	*kdm*	
Toluene-d8	*62*	*1*	*50.0*	*124 %*	*69-117*	*8B26029*	*EPA 8260B*	*02/26/08 20:58*	*kdm*	*QA-03*

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Description:	HA-2	**Lab Sample ID:**	C801625-02	**Received:**	02/20/08 17:00
Matrix:	Soil	**Sampled:**	02/19/08 16:00	**Work Order:**	C801625
Project:	Cherokee Co. Subtitle D LF	**Sampled By:**	J. Pfohl	**% Solids:**	72.0

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.15	U	mg/kg dry	1	0.15	0.69	6	EPA 6010B	02/26/08 18:01	VLO	
Arsenic [7440-38-2] ^	**0.51**	JB	mg/kg dry	1	0.09	0.69	10	EPA 6010B	02/26/08 18:01	VLO	
Barium [7440-39-3] ^	**18.7**	J	mg/kg dry	1	0.069	0.694	100	EPA 6010B	02/26/08 18:01	VLO	
Beryllium [7440-41-7] ^	0.017	U	mg/kg dry	1	0.017	0.069	1	EPA 6010B	02/26/08 18:01	VLO	
Cadmium [7440-43-9] ^	0.013	U	mg/kg dry	1	0.013	0.069	1	EPA 6010B	02/26/08 18:01	VLO	
Chromium [7440-47-3] ^	**10.9**		mg/kg dry	1	0.07	0.69	10	EPA 6010B	02/26/08 18:01	VLO	
Cobalt [7440-48-4] ^	**0.41**	J	mg/kg dry	1	0.07	0.69	10	EPA 6010B	02/26/08 18:01	VLO	
Copper [7440-50-8] ^	0.264	U	mg/kg dry	1	0.264	0.694	10	EPA 6010B	02/26/08 18:01	VLO	
Lead [7439-92-1] ^	**10.6**		mg/kg dry	1	0.17	0.69	10	EPA 6010B	02/26/08 18:01	VLO	
Nickel [7440-02-0] ^	**1.76**	J	mg/kg dry	1	0.50	0.69	50	EPA 6010B	02/26/08 18:01	VLO	
Selenium [7782-49-2] ^	0.14	U	mg/kg dry	1	0.14	0.69	10	EPA 6010B	02/26/08 18:01	VLO	
Silver [7440-22-4] ^	0.07	U	mg/kg dry	1	0.07	0.69	10	EPA 6010B	02/26/08 18:01	VLO	
Thallium [7440-28-0] ^	0.28	U	mg/kg dry	1	0.28	0.69	5.5	EPA 6010B	02/26/08 18:01	VLO	
Vanadium [7440-62-2] ^	**25.1**		mg/kg dry	1	0.069	0.694	25	EPA 6010B	02/26/08 18:01	VLO	
Zinc [7440-66-6] ^	**13.4**	B	mg/kg dry	1	0.069	0.694	10	EPA 6010B	02/26/08 18:01	VLO	

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Description:	HA-2	**Lab Sample ID:**	C801625-02	**Received:**	02/20/08 17:00
Matrix:	Soil	**Sampled:**	02/19/08 16:00	**Work Order:**	C801625
Project:	Cherokee Co. Subtitle D LF	**Sampled By:**	J. Pfohl	**% Solids:**	72.0

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.70	U	ug/L	1	0.70	0.80	5	EPA 8260B	02/26/08 21:29	kdm	
1,1,1-Trichloroethane [71-55-6] ^	0.74	U	ug/L	1	0.74	0.80	1	EPA 8260B	02/26/08 21:29	kdm	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.80	U	ug/L	1	0.80	0.80	3	EPA 8260B	02/26/08 21:29	kdm	
1,1,2-Trichloroethane [79-00-5] ^	0.70	U	ug/L	1	0.70	0.80	1	EPA 8260B	02/26/08 21:29	kdm	
1,1-Dichloroethane [75-34-3] ^	0.80	U	ug/L	1	0.80	0.80	5	EPA 8260B	02/26/08 21:29	kdm	
1,1-Dichloroethene [75-35-4] ^	0.78	U	ug/L	1	0.78	0.80	5	EPA 8260B	02/26/08 21:29	kdm	
1,2,3-Trichloropropane [96-18-4] ^	0.77	U	ug/L	1	0.77	0.80	1	EPA 8260B	02/26/08 21:29	kdm	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.80	U	ug/L	1	0.80	0.80	13	EPA 8260B	02/26/08 21:29	kdm	
1,2-Dibromoethane [106-93-4] ^	0.41	U	ug/L	1	0.41	0.80	1	EPA 8260B	02/26/08 21:29	kdm	
1,2-Dichlorobenzene [95-50-1] ^	0.80	U	ug/L	1	0.80	0.80	5	EPA 8260B	02/26/08 21:29	kdm	
1,2-Dichloroethane [107-06-2] ^	0.73	U	ug/L	1	0.73	0.80	1	EPA 8260B	02/26/08 21:29	kdm	
1,2-Dichloropropane [78-87-5] ^	0.77	U	ug/L	1	0.77	0.80	1	EPA 8260B	02/26/08 21:29	kdm	
1,4-Dichlorobenzene [106-46-7] ^	0.40	U	ug/L	1	0.40	0.80	1	EPA 8260B	02/26/08 21:29	kdm	
2-Butanone [78-93-3] ^	3.9	U	ug/L	1	3.9	4.0	100	EPA 8260B	02/26/08 21:29	kdm	
2-Hexanone [591-78-6] ^	0.71	U	ug/L	1	0.71	0.80	50	EPA 8260B	02/26/08 21:29	kdm	
4-Methyl-2-pentanone [108-10-1] ^	1.4	U	ug/L	1	1.4	4.0	100	EPA 8260B	02/26/08 21:29	kdm	
Acetone [67-64-1] ^	**12**	J	ug/L	1	2.7	4.0	100	EPA 8260B	02/26/08 21:29	kdm	
Acrylonitrile [107-13-1] ^	8.0	U	ug/L	1	8.0	8.0	200	EPA 8260B	02/26/08 21:29	kdm	
Benzene [71-43-2] ^	0.61	U	ug/L	1	0.61	0.80	1	EPA 8260B	02/26/08 21:29	kdm	
Bromochloromethane [74-97-5] ^	0.77	U	ug/L	1	0.77	0.80	3	EPA 8260B	02/26/08 21:29	kdm	
Bromodichloromethane [75-27-4] ^	0.52	U	ug/L	1	0.52	0.80	1	EPA 8260B	02/26/08 21:29	kdm	
Bromoform [75-25-2] ^	0.45	U	ug/L	1	0.45	0.80	3	EPA 8260B	02/26/08 21:29	kdm	
Bromomethane [74-83-9] ^	0.71	U	ug/L	1	0.71	0.80	10	EPA 8260B	02/26/08 21:29	kdm	
Carbon disulfide [75-15-0] ^	0.78	U	ug/L	1	0.78	0.80	100	EPA 8260B	02/26/08 21:29	kdm	
Carbon tetrachloride [56-23-5] ^	0.66	U	ug/L	1	0.66	0.80	1	EPA 8260B	02/26/08 21:29	kdm	
Chlorobenzene [108-90-7] ^	0.37	U	ug/L	1	0.37	0.80	3	EPA 8260B	02/26/08 21:29	kdm	
Chloroethane [75-00-3] ^	0.79	U	ug/L	1	0.79	0.80	10	EPA 8260B	02/26/08 21:29	kdm	
Chloroform [67-66-3] ^	0.75	U	ug/L	1	0.75	0.80	5	EPA 8260B	02/26/08 21:29	kdm	
Chloromethane [74-87-3] ^	0.79	U	ug/L	1	0.79	0.80	1	EPA 8260B	02/26/08 21:29	kdm	
cis-1,2-Dichloroethene [156-59-2] ^	0.80	U	ug/L	1	0.80	0.80	5	EPA 8260B	02/26/08 21:29	kdm	
cis-1,3-Dichloropropene [10061-01-5] ^	0.61	U	ug/L	1	0.61	0.80	1	EPA 8260B	02/26/08 21:29	kdm	
Dibromochloromethane [124-48-1] ^	0.75	U	ug/L	1	0.75	0.80	3	EPA 8260B	02/26/08 21:29	kdm	
Dibromomethane [74-95-3] ^	0.64	U	ug/L	1	0.64	0.80	10	EPA 8260B	02/26/08 21:29	kdm	
Ethylbenzene [100-41-4] ^	0.46	U	ug/L	1	0.46	0.80	1	EPA 8260B	02/26/08 21:29	kdm	
Iodomethane [74-88-4] ^	0.59	U	ug/L	1	0.59	0.80	10	EPA 8260B	02/26/08 21:29	kdm	
m,p-Xylenes [108-38-3/106-42-3]	0.80	U	ug/L	1	0.80	0.80	NE	EPA 8260B	02/26/08 21:29	kdm	
Methylene chloride [75-09-2] ^	2.2	U	ug/L	1	2.2	4.0	1	EPA 8260B	02/26/08 21:29	kdm	
o-Xylene [95-47-6]	0.38	U	ug/L	1	0.38	0.80	NE	EPA 8260B	02/26/08 21:29	kdm	
Styrene [100-42-5] ^	0.65	U	ug/L	1	0.65	0.80	1	EPA 8260B	02/26/08 21:29	kdm	
Tetrachloroethene [127-18-4] ^	0.67	U	ug/L	1	0.67	0.80	1	EPA 8260B	02/26/08 21:29	kdm	
Toluene [108-88-3] ^	0.77	U	ug/L	1	0.77	0.80	1	EPA 8260B	02/26/08 21:29	kdm	
trans-1,2-Dichloroethene [156-60-5] ^	0.80	U	ug/L	1	0.80	0.80	5	EPA 8260B	02/26/08 21:29	kdm	
trans-1,3-Dichloropropene [10061-02-6] ^	0.79	U	ug/L	1	0.79	0.80	1	EPA 8260B	02/26/08 21:29	kdm	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.73	U	ug/L	1	0.73	0.80	100	EPA 8260B	02/26/08 21:29	kdm	
Trichloroethene [79-01-6] ^	0.42	U	ug/L	1	0.42	0.80	1	EPA 8260B	02/26/08 21:29	kdm	
Trichlorofluoromethane [75-69-4] ^	0.73	U	ug/L	1	0.73	0.80	1	EPA 8260B	02/26/08 21:29	kdm	

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Description:	HA-2	**Lab Sample ID:**	C801625-02	**Received:**	02/20/08 17:00
Matrix:	Soil	**Sampled:**	02/19/08 16:00	**Work Order:**	C801625
Project:	Cherokee Co. Subtitle D LF	**Sampled By:**	J. Pfohl	**% Solids:**	72.0

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl acetate [108-05-4] ^	0.79	U	ug/L	1	0.79	0.80	50	EPA 8260B	02/26/08 21:29	kdm	
Vinyl chloride [75-01-4] ^	0.68	U	ug/L	1	0.68	0.80	1	EPA 8260B	02/26/08 21:29	kdm	
Xylenes (Total) [1330-20-7] ^	0.80	U	ug/L	1	0.80	0.80	5	EPA 8260B	02/26/08 21:29	kdm	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*60*	*1*	*50.0*	*120 %*	*65-121*	*8B26029*	*EPA 8260B*	*02/26/08 21:29*	*kdm*	
Dibromofluoromethane	*64*	*1*	*50.0*	*127 %*	*69-143*	*8B26029*	*EPA 8260B*	*02/26/08 21:29*	*kdm*	
Toluene-d8	*59*	*1*	*50.0*	*118 %*	*69-117*	*8B26029*	*EPA 8260B*	*02/26/08 21:29*	*kdm*	*QA-03*

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Description:	HA-3	**Lab Sample ID:**	C801625-03	**Received:**	02/20/08 17:00
Matrix:	Soil	**Sampled:**	02/19/08 16:30	**Work Order:**	C801625
Project:	Cherokee Co. Subtitle D LF	**Sampled By:**	J. Pfohl	**% Solids:**	79.6

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.14	U	mg/kg dry	1	0.14	0.63	6	EPA 6010B	02/26/08 18:08	VLO	
Arsenic [7440-38-2] ^	**0.88**	JB	mg/kg dry	1	0.08	0.63	10	EPA 6010B	02/26/08 18:08	VLO	
Barium [7440-39-3] ^	**14.9**	J	mg/kg dry	1	0.063	0.628	100	EPA 6010B	02/26/08 18:08	VLO	
Beryllium [7440-41-7] ^	0.015	U	mg/kg dry	1	0.015	0.063	1	EPA 6010B	02/26/08 18:08	VLO	
Cadmium [7440-43-9] ^	0.012	U	mg/kg dry	1	0.012	0.063	1	EPA 6010B	02/26/08 18:08	VLO	
Chromium [7440-47-3] ^	**20.1**		mg/kg dry	1	0.07	0.63	10	EPA 6010B	02/26/08 18:08	VLO	
Cobalt [7440-48-4] ^	0.06	U	mg/kg dry	1	0.06	0.63	10	EPA 6010B	02/26/08 18:08	VLO	
Copper [7440-50-8] ^	0.239	U	mg/kg dry	1	0.239	0.628	10	EPA 6010B	02/26/08 18:08	VLO	
Lead [7439-92-1] ^	**9.88**	J	mg/kg dry	1	0.15	0.63	10	EPA 6010B	02/26/08 18:08	VLO	
Nickel [7440-02-0] ^	0.45	U	mg/kg dry	1	0.45	0.63	50	EPA 6010B	02/26/08 18:08	VLO	
Selenium [7782-49-2] ^	0.12	U	mg/kg dry	1	0.12	0.63	10	EPA 6010B	02/26/08 18:08	VLO	
Silver [7440-22-4] ^	0.06	U	mg/kg dry	1	0.06	0.63	10	EPA 6010B	02/26/08 18:08	VLO	
Thallium [7440-28-0] ^	0.25	U	mg/kg dry	1	0.25	0.63	5.5	EPA 6010B	02/26/08 18:08	VLO	
Vanadium [7440-62-2] ^	**33.0**		mg/kg dry	1	0.063	0.628	25	EPA 6010B	02/26/08 18:08	VLO	
Zinc [7440-66-6] ^	**12.3**	B	mg/kg dry	1	0.063	0.628	10	EPA 6010B	02/26/08 18:08	VLO	

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Description:	HA-3	**Lab Sample ID:**	C801625-03	**Received:**	02/20/08 17:00
Matrix:	Soil	**Sampled:**	02/19/08 16:30	**Work Order:**	C801625
Project:	Cherokee Co. Subtitle D LF	**Sampled By:**	J. Pfohl	**% Solids:**	79.6

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.77	U	ug/L	1	0.77	0.89	5	EPA 8260B	02/26/08 21:59	kdm	
1,1,1-Trichloroethane [71-55-6] ^	0.82	U	ug/L	1	0.82	0.89	1	EPA 8260B	02/26/08 21:59	kdm	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.89	U	ug/L	1	0.89	0.89	3	EPA 8260B	02/26/08 21:59	kdm	
1,1,2-Trichloroethane [79-00-5] ^	0.77	U	ug/L	1	0.77	0.89	1	EPA 8260B	02/26/08 21:59	kdm	
1,1-Dichloroethane [75-34-3] ^	0.89	U	ug/L	1	0.89	0.89	5	EPA 8260B	02/26/08 21:59	kdm	
1,1-Dichloroethene [75-35-4] ^	0.86	U	ug/L	1	0.86	0.89	5	EPA 8260B	02/26/08 21:59	kdm	
1,2,3-Trichloropropane [96-18-4] ^	0.85	U	ug/L	1	0.85	0.89	1	EPA 8260B	02/26/08 21:59	kdm	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.89	U	ug/L	1	0.89	0.89	13	EPA 8260B	02/26/08 21:59	kdm	
1,2-Dibromoethane [106-93-4] ^	0.45	U	ug/L	1	0.45	0.89	1	EPA 8260B	02/26/08 21:59	kdm	
1,2-Dichlorobenzene [95-50-1] ^	0.89	U	ug/L	1	0.89	0.89	5	EPA 8260B	02/26/08 21:59	kdm	
1,2-Dichloroethane [107-06-2] ^	0.81	U	ug/L	1	0.81	0.89	1	EPA 8260B	02/26/08 21:59	kdm	
1,2-Dichloropropane [78-87-5] ^	0.85	U	ug/L	1	0.85	0.89	1	EPA 8260B	02/26/08 21:59	kdm	
1,4-Dichlorobenzene [106-46-7] ^	0.44	U	ug/L	1	0.44	0.89	1	EPA 8260B	02/26/08 21:59	kdm	
2-Butanone [78-93-3] ^	4.4	U	ug/L	1	4.4	4.4	100	EPA 8260B	02/26/08 21:59	kdm	
2-Hexanone [591-78-6] ^	0.79	U	ug/L	1	0.79	0.89	50	EPA 8260B	02/26/08 21:59	kdm	
4-Methyl-2-pentanone [108-10-1] ^	1.6	U	ug/L	1	1.6	4.4	100	EPA 8260B	02/26/08 21:59	kdm	
Acetone [67-64-1] ^	**11**	J	ug/L	1	3.0	4.4	100	EPA 8260B	02/26/08 21:59	kdm	
Acrylonitrile [107-13-1] ^	8.9	U	ug/L	1	8.9	8.9	200	EPA 8260B	02/26/08 21:59	kdm	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	0.89	1	EPA 8260B	02/26/08 21:59	kdm	
Bromochloromethane [74-97-5] ^	0.85	U	ug/L	1	0.85	0.89	3	EPA 8260B	02/26/08 21:59	kdm	
Bromodichloromethane [75-27-4] ^	0.58	U	ug/L	1	0.58	0.89	1	EPA 8260B	02/26/08 21:59	kdm	
Bromoform [75-25-2] ^	0.50	U	ug/L	1	0.50	0.89	3	EPA 8260B	02/26/08 21:59	kdm	
Bromomethane [74-83-9] ^	0.79	U	ug/L	1	0.79	0.89	10	EPA 8260B	02/26/08 21:59	kdm	
Carbon disulfide [75-15-0] ^	0.86	U	ug/L	1	0.86	0.89	100	EPA 8260B	02/26/08 21:59	kdm	
Carbon tetrachloride [56-23-5] ^	0.73	U	ug/L	1	0.73	0.89	1	EPA 8260B	02/26/08 21:59	kdm	
Chlorobenzene [108-90-7] ^	0.41	U	ug/L	1	0.41	0.89	3	EPA 8260B	02/26/08 21:59	kdm	
Chloroethane [75-00-3] ^	0.87	U	ug/L	1	0.87	0.89	10	EPA 8260B	02/26/08 21:59	kdm	
Chloroform [67-66-3] ^	0.84	U	ug/L	1	0.84	0.89	5	EPA 8260B	02/26/08 21:59	kdm	
Chloromethane [74-87-3] ^	0.87	U	ug/L	1	0.87	0.89	1	EPA 8260B	02/26/08 21:59	kdm	
cis-1,2-Dichloroethene [156-59-2] ^	0.89	U	ug/L	1	0.89	0.89	5	EPA 8260B	02/26/08 21:59	kdm	
cis-1,3-Dichloropropene [10061-01-5] ^	0.68	U	ug/L	1	0.68	0.89	1	EPA 8260B	02/26/08 21:59	kdm	
Dibromochloromethane [124-48-1] ^	0.84	U	ug/L	1	0.84	0.89	3	EPA 8260B	02/26/08 21:59	kdm	
Dibromomethane [74-95-3] ^	0.71	U	ug/L	1	0.71	0.89	10	EPA 8260B	02/26/08 21:59	kdm	
Ethylbenzene [100-41-4] ^	0.51	U	ug/L	1	0.51	0.89	1	EPA 8260B	02/26/08 21:59	kdm	
Iodomethane [74-88-4] ^	0.66	U	ug/L	1	0.66	0.89	10	EPA 8260B	02/26/08 21:59	kdm	
m,p-Xylenes [108-38-3/106-42-3]	0.89	U	ug/L	1	0.89	0.89	NE	EPA 8260B	02/26/08 21:59	kdm	
Methylene chloride [75-09-2] ^	2.5	U	ug/L	1	2.5	4.4	1	EPA 8260B	02/26/08 21:59	kdm	
o-Xylene [95-47-6]	0.43	U	ug/L	1	0.43	0.89	NE	EPA 8260B	02/26/08 21:59	kdm	
Styrene [100-42-5] ^	0.72	U	ug/L	1	0.72	0.89	1	EPA 8260B	02/26/08 21:59	kdm	
Tetrachloroethene [127-18-4] ^	0.75	U	ug/L	1	0.75	0.89	1	EPA 8260B	02/26/08 21:59	kdm	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	0.89	1	EPA 8260B	02/26/08 21:59	kdm	
trans-1,2-Dichloroethene [156-60-5] ^	0.89	U	ug/L	1	0.89	0.89	5	EPA 8260B	02/26/08 21:59	kdm	
trans-1,3-Dichloropropene [10061-02-6] ^	0.88	U	ug/L	1	0.88	0.89	1	EPA 8260B	02/26/08 21:59	kdm	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.81	U	ug/L	1	0.81	0.89	100	EPA 8260B	02/26/08 21:59	kdm	
Trichloroethene [79-01-6] ^	0.47	U	ug/L	1	0.47	0.89	1	EPA 8260B	02/26/08 21:59	kdm	
Trichlorofluoromethane [75-69-4] ^	0.81	U	ug/L	1	0.81	0.89	1	EPA 8260B	02/26/08 21:59	kdm	

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Description:	HA-3	**Lab Sample ID:**	C801625-03	**Received:**	02/20/08 17:00
Matrix:	Soil	**Sampled:**	02/19/08 16:30	**Work Order:**	C801625
Project:	Cherokee Co. Subtitle D LF	**Sampled By:**	J. Pfohl	**% Solids:**	79.6

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl acetate [108-05-4] ^	0.88	U	ug/L	1	0.88	0.89	50	EPA 8260B	02/26/08 21:59	kdm	
Vinyl chloride [75-01-4] ^	0.76	U	ug/L	1	0.76	0.89	1	EPA 8260B	02/26/08 21:59	kdm	
Xylenes (Total) [1330-20-7] ^	0.89	U	ug/L	1	0.89	0.89	5	EPA 8260B	02/26/08 21:59	kdm	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*60*	*1*	*50.0*	*120 %*	*65-121*	*8B26029*	*EPA 8260B*	*02/26/08 21:59*	*kdm*	
Dibromofluoromethane	*65*	*1*	*50.0*	*130 %*	*69-143*	*8B26029*	*EPA 8260B*	*02/26/08 21:59*	*kdm*	
Toluene-d8	*59*	*1*	*50.0*	*118 %*	*69-117*	*8B26029*	*EPA 8260B*	*02/26/08 21:59*	*kdm*	*QA-03*

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

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8B25002 - EPA 3050B

Blank (8B25002-BLK1) Prepared: 02/25/2008 07:08 Analyzed: 02/26/2008 17:19

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.11	U	0.50	mg/kg wet							
Arsenic	**0.10**	**J**	0.50	mg/kg wet							
Barium	0.050	U	0.500	mg/kg wet							
Beryllium	0.012	U	0.050	mg/kg wet							
Cadmium	0.010	U	0.050	mg/kg wet							
Chromium	0.05	U	0.50	mg/kg wet							
Cobalt	0.05	U	0.50	mg/kg wet							
Copper	0.190	U	0.500	mg/kg wet							
Lead	0.12	U	0.50	mg/kg wet							
Nickel	0.36	U	0.50	mg/kg wet							
Selenium	0.10	U	0.50	mg/kg wet							
Silver	0.05	U	0.50	mg/kg wet							
Thallium	0.20	U	0.50	mg/kg wet							
Vanadium	0.050	U	0.500	mg/kg wet							
Zinc	**0.240**	**J**	0.500	mg/kg wet							

LCS (8B25002-BS1) Prepared: 02/25/2008 07:08 Analyzed: 02/26/2008 17:26

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	11.0		0.50	mg/kg wet	12.4		89	85-116			
Arsenic	22.1	B	0.50	mg/kg wet	24.8		89	77-125			
Barium	22.7		0.500	mg/kg wet	24.8		92	76-124			
Beryllium	11.7		0.050	mg/kg wet	12.4		94	83-121			
Cadmium	11.6		0.050	mg/kg wet	12.4		94	76-123			
Chromium	23.4		0.50	mg/kg wet	24.8		94	81-121			
Cobalt	23.4		0.50	mg/kg wet	24.8		95	86-115			
Copper	11.4		0.500	mg/kg wet	12.4		92	81-119			
Lead	23.0		0.50	mg/kg wet	24.8		93	79-127			
Nickel	22.5		0.50	mg/kg wet	24.8		91	80-118			
Selenium	21.5		0.50	mg/kg wet	24.8		87	71-118			
Silver	2.18		0.50	mg/kg wet	2.48		88	78-128			
Thallium	10.8		0.50	mg/kg wet	12.4		87	86-111			
Vanadium	11.2		0.500	mg/kg wet	12.4		90	89-112			
Zinc	24.0	B	0.500	mg/kg wet	24.8		97	76-128			

Matrix Spike (8B25002-MS1) Prepared: 02/25/2008 07:08 Analyzed: 02/26/2008 17:40

Source: C801625-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	1.49		0.69	mg/kg dry	17.1	2.82	NR	52-147			QM-07
Arsenic	16.8	B	0.69	mg/kg dry	34.3	53.4	NR	53-153			QM-07
Barium	97.0		0.686	mg/kg dry	34.3	53.2	128	46-120			QM-07
Beryllium	9.37		0.069	mg/kg dry	17.1	0.016 U	55	41-133			
Cadmium	6.40		0.069	mg/kg dry	17.1	0.013 U	37	49-115			QM-07
Chromium	35.1		0.69	mg/kg dry	34.3	12.1	67	19-142			
Cobalt	28.2		0.69	mg/kg dry	34.3	2.45	75	30-143			
Copper	10.6		0.686	mg/kg dry	17.1	1790	NR	35-137			QM-07
Lead	25.6		0.69	mg/kg dry	34.3	9.78	46	48-121			QM-07

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8B25002 - EPA 3050B

Matrix Spike (8B25002-MS1) Continued Prepared: 02/25/2008 07:08 Analyzed: 02/26/2008 17:40

Source: C801625-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nickel	32.0		0.69	mg/kg dry	34.3	33.9	NR	43-121			QM-07
Selenium	4.58		0.69	mg/kg dry	34.3	0.13 U	13	43-126			QM-07
Silver	0.07	U	0.69	mg/kg dry	3.43	0.07 U		36-133			QM-07
Thallium	0.27	U	0.69	mg/kg dry	17.1	0.27 U		58-118			QM-07
Vanadium	26.1		0.686	mg/kg dry	17.1	31.1	NR	31-142			QM-07
Zinc	102	B	0.686	mg/kg dry	34.3	2020	NR	37-138			QM-07

Matrix Spike Dup (8B25002-MSD1) Prepared: 02/25/2008 07:08 Analyzed: 02/26/2008 17:47

Source: C801625-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	1.81		0.69	mg/kg dry	17.1	2.82	NR	52-147	19	28	QM-07
Arsenic	18.7	B	0.69	mg/kg dry	34.3	53.4	NR	53-153	11	22	QM-07
Barium	111		0.686	mg/kg dry	34.3	53.2	168	46-120	13	16	QM-07
Beryllium	10.3		0.069	mg/kg dry	17.1	0.016 U	60	41-133	9	26	
Cadmium	7.04		0.069	mg/kg dry	17.1	0.013 U	41	49-115	9	24	QM-07
Chromium	37.8		0.69	mg/kg dry	34.3	12.1	75	19-142	8	24	
Cobalt	35.4		0.69	mg/kg dry	34.3	2.45	96	30-143	23	17	QM-07
Copper	10.6		0.686	mg/kg dry	17.1	1790	NR	35-137	0.3	12	QM-07
Lead	27.0		0.69	mg/kg dry	34.3	9.78	50	48-121	5	26	
Nickel	39.2		0.69	mg/kg dry	34.3	33.9	15	43-121	20	14	QM-07
Selenium	6.18		0.69	mg/kg dry	34.3	0.13 U	18	43-126	30	14	QM-07
Silver	0.07	U	0.69	mg/kg dry	3.43	0.07 U		36-133		20	QM-07
Thallium	0.850		0.69	mg/kg dry	17.1	0.27 U	5	58-118		14	QM-07
Vanadium	25.4		0.686	mg/kg dry	17.1	31.1	NR	31-142	3	16	QM-07
Zinc	96.9	B	0.686	mg/kg dry	34.3	2020	NR	37-138	5	19	QM-07

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 8B26029 - EPA 5035_MS

Blank (8B26029-BLK1) Prepared: 02/26/2008 13:07 Analyzed: 02/26/2008 17:27

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloromethane	0.98	U	1.0	ug/L							
Vinyl chloride	0.85	U	1.0	ug/L							
Bromomethane	0.89	U	1.0	ug/L							
Chloroethane	0.98	U	1.0	ug/L							
Trichlorofluoromethane	0.91	U	1.0	ug/L							
Acetone	3.4	U	5.0	ug/L							
1,1-Dichloroethene	0.97	U	1.0	ug/L							
Iodomethane	0.74	U	1.0	ug/L							
Carbon disulfide	0.97	U	1.0	ug/L							
Methylene chloride	2.8	U	5.0	ug/L							
Acrylonitrile	10	U	10	ug/L							
trans-1,2-Dichloroethene	1.0	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 8B26029 - EPA 5035_MS

Blank (8B26029-BLK1) Continued Prepared: 02/26/2008 13:07 Analyzed: 02/26/2008 17:27

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
cis-1,2-Dichloroethene	1.0	U	1.0	ug/L							
1,1-Dichloroethane	1.0	U	1.0	ug/L							
Vinyl acetate	0.99	U	1.0	ug/L							
2-Butanone	4.9	U	5.0	ug/L							
Chloroform	0.94	U	1.0	ug/L							
Bromochloromethane	0.96	U	1.0	ug/L							
1,1,1-Trichloroethane	0.92	U	1.0	ug/L							
Carbon tetrachloride	0.82	U	1.0	ug/L							
1,2-Dichloroethane	0.91	U	1.0	ug/L							
Benzene	0.76	U	1.0	ug/L							
Trichloroethene	0.53	U	1.0	ug/L							
1,2-Dichloropropane	0.96	U	1.0	ug/L							
Bromodichloromethane	0.65	U	1.0	ug/L							
Dibromomethane	0.80	U	1.0	ug/L							
4-Methyl-2-pentanone	1.8	U	5.0	ug/L							
2-Hexanone	0.89	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.76	U	1.0	ug/L							
Toluene	0.96	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.99	U	1.0	ug/L							
1,1,2-Trichloroethane	0.87	U	1.0	ug/L							
Tetrachloroethene	0.84	U	1.0	ug/L							
Dibromochloromethane	0.94	U	1.0	ug/L							
1,2-Dibromoethane	0.51	U	1.0	ug/L							
Chlorobenzene	0.46	U	1.0	ug/L							
1,1,1,2-Tetrachloroethane	0.87	U	1.0	ug/L							
Ethylbenzene	0.57	U	1.0	ug/L							
m,p-Xylenes	1.0	U	1.0	ug/L							
o-Xylene	0.48	U	1.0	ug/L							
Bromoform	0.56	U	1.0	ug/L							
Styrene	0.81	U	1.0	ug/L							
1,2,3-Trichloropropane	0.96	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	1.0	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.91	U	1.0	ug/L							
1,4-Dichlorobenzene	0.50	U	1.0	ug/L							
1,2-Dichlorobenzene	1.0	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	1.0	U	1.0	ug/L							
Xylenes (Total)	1.0	U	1.0	ug/L							
Surrogate: Dibromofluoromethane	*63*			*ug/L*	*50.0*		*127*	*69-143*			
Surrogate: Toluene-d8	*57*			*ug/L*	*50.0*		*114*	*69-117*			
Surrogate: 4-Bromofluorobenzene	*67*			*ug/L*	*50.0*		*134*	*65-121*			*QA-03*

LCS (8B26029-BS1) Prepared: 02/26/2008 13:07 Analyzed: 02/26/2008 16:57

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	23		1.0	ug/L	20.0		115	57-125			
Benzene	21		1.0	ug/L	20.0		106	62-131			
Trichloroethene	22		1.0	ug/L	20.0		111	63-115			
Toluene	20		1.0	ug/L	20.0		99	60-133			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 8B26029 - EPA 5035_MS

LCS (8B26029-BS1) Continued Prepared: 02/26/2008 13:07 Analyzed: 02/26/2008 16:57

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorobenzene	19		1.0	ug/L	20.0		93	68-118			
Surrogate: Dibromofluoromethane	*64*			*ug/L*	*50.0*		*128*	*69-143*			
Surrogate: Toluene-d8	*58*			*ug/L*	*50.0*		*116*	*69-117*			
Surrogate: 4-Bromofluorobenzene	*62*			*ug/L*	*50.0*		*124*	*65-121*			*QA-03*

Matrix Spike (8B26029-MS1) Prepared: 02/26/2008 13:07 Analyzed: 02/26/2008 17:57

Source: A800754-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.97 U	103	57-125			
Benzene	20		1.0	ug/L	20.0	0.76 U	102	62-131			
Trichloroethene	21		1.0	ug/L	20.0	0.53 U	105	63-115			
Toluene	19		1.0	ug/L	20.0	0.96 U	95	60-133			
Chlorobenzene	20		1.0	ug/L	20.0	0.46 U	102	68-118			
Surrogate: Dibromofluoromethane	*68*			*ug/L*	*50.0*		*135*	*69-143*			
Surrogate: Toluene-d8	*60*			*ug/L*	*50.0*		*120*	*69-117*			*QA-03*
Surrogate: 4-Bromofluorobenzene	*68*			*ug/L*	*50.0*		*135*	*65-121*			*QA-03*

Matrix Spike Dup (8B26029-MSD1) Prepared: 02/26/2008 13:07 Analyzed: 02/26/2008 18:27

Source: A800754-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.97 U	108	57-125	5	12	
Benzene	20		1.0	ug/L	20.0	0.76 U	100	62-131	1	10	
Trichloroethene	21		1.0	ug/L	20.0	0.53 U	106	63-115	1	10	
Toluene	19		1.0	ug/L	20.0	0.96 U	96	60-133	1	18	
Chlorobenzene	20		1.0	ug/L	20.0	0.46 U	101	68-118	1	12	
Surrogate: Dibromofluoromethane	*71*			*ug/L*	*50.0*		*142*	*69-143*			
Surrogate: Toluene-d8	*63*			*ug/L*	*50.0*		*126*	*69-117*			*QA-03*
Surrogate: 4-Bromofluorobenzene	*62*			*ug/L*	*50.0*		*124*	*65-121*			*QA-03*

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
QA-03	Surrogate recovery outside acceptance limits
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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(904) 296-3007 Fax (904) 296-6210

1015 Passport Way
Cary, NC 27513
(919) 677-1669 Fax (919) 677-6846

Client Name: Municipal Engineering Services (MUD01)	Project Number: ~~668~~
Address: ~~Garner, N~~ PO Box 97	Project Name/Desc: Cherokee Co. Subtitle D LF
City/ST/Zip: Garner NC 27529	PO # / Billing Info:
Tel: (919) 772-5393 / Fax: (919) 772-1176	Reporting Contact: Jonathan Pfohl
Sampler(s) Name, Affiliation (Print): Jonathan Pfohl, MESCO	Billing Contact: Accounts Payable
Sampler(s) Signature:	Facility # (if required):

Requested Analyses: 8260B Appendix 1; As, Ba, Be, Cd, Cr, Cu, Ni, Pb, Sb, Se, Tl, V, Zn

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due __/__/__

Lab Workorder: C801625

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Sample Comments
	HA-1	2/19/08	3:50	Grab	So	4	
	HA-2	↓	4:00	↓	↓	↓	
	HA-3	↓	4:30	↓	↓	↓	

<- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		[signature]	2/20/08 12:00	Jessica Pfohl	2/20/08 12:00pm
Comments: HA-1 (Background) All taken 2' BGS; HA-2, HA-3 > From Previous Standing HxO area		Relinquished By: Jessica Pfohl	Date/Time: 2/20/08 5:00pm	Received By: Susana Gregory	Date/Time: 2/20/08 17:00
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: 1.6°C		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

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

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

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

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