OPERATION/CONSTRUCTION MANAGERS

Municipal Services

CIVIL/SANITARY ENGINEERS

Engineering Company, P.A.

June 3, 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: Monitored Natural Attenuation Semi-Annual Progress Report
City of Albemarle Closed Unlined MSWLF and active C&D Landfill
Albemarle, NC 28002

Permit No. 84-01
MESCO Project No. G07059.0

Dear Mr. Lane:

The City of Albemarle Closed Unlined Municipal Solid Waste Landfill (MSWLF) and Active Construction and Demolition (C&D) Landfill, currently operating under permit #84-01, has progressed with Monitored Natural Attenuation (MNA) monitoring in accordance with the Corrective Action Plan (CAP) approved March 2009. This sampling event was performed on January 20 and 21, 2010 along with traditional semi-annual sampling.

As proposed in the CAP, Municipal Engineering Services Company, P.A. (MESCO) of Garner, North Carolina collected groundwater samples, to be tested for MNA parameters, from nine monitoring wells (MW-1, MW-2, MW-3, MW-6, MW-7, MW-9, MW-10, MW-24 and MW-25). A facility map provided as **Plate 1** illustrates monitoring well locations and flow direction. **Plate 2** depicts the identified constituents of concern from the current sampling event above the 2L standards at each respective well. Only one constituent of concern, benzene in MW-7, was detected above 2L standards. Sampling was conducted per the methodology listed in the approved CAP Groundwater and Surface Water Sampling and Analysis Plan.

Table 1 lists the wells with their required MNA sampling parameter results. The constituents of concern include both hydrocarbons and chlorinated solvents; therefore, biodegredation can occur on two fronts. **Table 2** shows a breakdown of chlorinated solvents through reductive chlorination during the first two sampling events. **Table 3** establishes a breakdown of the existing conditions present for dissolved hydrocarbons in plume locations. The MNA wells, on **Tables 2 and 3** are grouped by plume association, in order to simplify correlations between plates and tables. Appendix 1 metals and VOC laboratory results for the current sampling event are included. Tables of constituent analysis will be submitted with future reports once more information is available. As required by the Solid Waste Section an evaluation of MNA's effectiveness as a remedy will be presented in a Comprehensive MNA Evaluation Report after four sampling events are conducted.

In addition to MNA sampling, the City of Albemarle instituted phytoremediation in the area corresponding to wells MW-2, MW-7, MW-24 and MW-25. On May 4, 2009, 275 willow cuttings were planted in and around the plume field. Transducers were set in wells MW-2 and MW-7 on June 11, 2009 in order to monitor daily water levels. Daily precipitation levels are recovered from the State Climate Office website. MESCO personnel is retrieving transducer data for analysis, winter data will likely show less influence due to the dormant nature of the willows.

PO Box 97, Garner, North Carolina 27529 (919) 772-5393
PO Box 828, Morehead City, NC 28557 (252) 726-9481 PO Box 349, Boone, North Carolina 28607 (828) 262-1767

Additionally, select trees are being measured to monitor growth. **Table 4** provides an overview of tree growth for the phytoremediation area. Full results and analysis will be provided in the the Comprehensive MNA Sampling Report.

The next sampling event is scheduled for July 2010 and the lab results will be submitted upon completion. If you have any questions or comments regarding this sampling update, please contact us by phone at (919) 772-5393 or by email at mgerman@mesco.com.

Sincerely,
MUNICIPAL ENGINEERING SERVICES CO., P.A.

Madeline German
Geoscientist

Enclosures
cc: Mr. Mike Lambert
City of Albemarle

TABLE 1: MNA Parameters at Monitoring Well Locations

Parameters	Method	MDL*	Units	MW-1	MW-3	MW-9	MW-10
				01/20/10	01/20/10	01/20/10	01/20/10
VFA – Acetic Acid	AM23G	0.07	ug/L	<0.07	<0.07	<0.07	0.41
VFA – Butyric Acid	AM23G	0.07	ug/L	<0.07	<0.07	<0.07	<0.07
VFA – Lactic Acid	AM23G	0.1	ug/L	<0.1	<0.1	<0.1	0.34
VFA – Propionic Acid	AM23G	0.07	ug/L	<0.07	<0.07	<0.07	0.1
VFA – Pyruvic Acid	AM23G	0.07	ug/L	<0.07	<0.07	<0.07	0.1
Hydrogen	AM20GAX	0.6	nM	0.77	1.1	2	0.66
Methane	AM20GAX	0.015	ug/L	2.8	24	0.26	<0.015
Ethene	AM20GAX	0.01	ug/L	<0.010	<0.010	<0.010	<0.010
Ethane	AM20GAX	0.01	ug/L	<0.010	<0.010	<0.010	<0.010
CO2-Dissolved	Field Hach Kit	1	mg/L	30	>100	>100	30
Alkalinity	EPA 310.2	8000	ug/L	BQL	180000	30000	630000 §
Sulfate	EPA 300.0	5000	ug/L	7300	150000*	11000	8700
Sulfide	SM18 4500-S D	31	ug/L	BQL	BQL	BQL	BQL
Chloride	EPA 300.0	18	ug/L	3700	34000	44000	290000 ◆
TOC	SM 5310B	320	ug/L	9300	21000	3900	51000
COD	SM 5220D	2800	ug/L	18000	61000	100000	190000
BOD	SM5210B	2000	ug/L	BQL	8200	BQL	43000
Iron	EPA 6010C	8.1	ug/L	2740	2960	8450	1330
Nitrate	EPA 353.2	21	ug/L	60	2100	170	10000
Temperature	Field Instrument	0	Degrees C	15.4	14.5	12.8	12.1
ORP	Field Instrument	-900	mV	183	53	63	89
DO	Field Instrument	0	mg/L	0.9	0.3	1.3	0.9
pH	Field Instrument	0	Standard Units	5.75	6.44	6.42	6.81
Specific Conductance	Field Instrument	0	us/cm	73	722	626	366
Turbidity	Field Instrument	0	NTU	9.86	6.36	68.3	23.2

Notes:
VFA = Volitile Fatty Acid
MDL* = Lowest Method Detection Limit for Lab Parameters or Lowest Field Measurement Possible
BQL = Below Quantitation Limit
>100 = CO_2 Concentration Exceeds Maximum capability of Method Used
* Sulfate analysis for MW-3 uses a dilution factor of 2 (MDL = 360)
◆ Chlordie analysis for MW-10 uses a dilution factor of 4 (MDL = 72)
§ Alkalinity analysis for MW-10 uses a dilution factor of 5 (MDL = 40000)

TABLE 1: MNA Parameters at Monitoring Well Locations

Parameters	Method	MDL*	Units	MW-2	MW-25	MW-7	MW-24	MW-6
				01/21/10	01/21/10	01/21/10	01/21/10	01/21/10
VFA – Acetic Acid	AM23G	0.07	ug/L	<0.07	<0.07	<0.07	<0.07	<0.07
VFA – Butyric Acid	AM23G	0.07	ug/L	<0.07	<0.07	<0.07	<0.07	<0.07
VFA – Lactic Acid	AM23G	0.1	ug/L	<0.1	0.16	<0.1	<0.1	0.12
VFA – Propionic Acid	AM23G	0.07	ug/L	<0.07	<0.07	<0.07	<0.07	<0.07
VFA – Pyruvic Acid	AM23G	0.07	ug/L	<0.07	<0.07	0.24	<0.07	0.11
Hydrogen	AM20GAX	0.6	nM	0.87	1.1	0.94	1.1	1.2
Methane	AM20GAX	0.015	ug/L	1100	11	360	1.4	9.5
Ethene	AM20GAX	0.01	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010
Ethane	AM20GAX	0.01	ug/L	0.056	<0.010	0.041	<0.010	<0.010
CO2-Dissolved	Field Hach Kit	1	mg/L	>100	60	>100	60	90
Alkalinity	EPA 310.2	8000	ug/L	100000	41000	150000	54000	13000
Sulfate	EPA 300.0	180	ug/L	60000	47000	5400	50000	31000
Sulfide	SM18 4500-S D	31	ug/L	BQL	BQL	BQL	BQL	BQL
Chloride	EPA 300.0	18	ug/L	43000	52000	86000	35000	6400
TOC	SM 5310B	320	ug/L	12000	7600	7400	5000	6300
COD	SM 5220D	2800	ug/L	55000	14000	3100	5300	25000
BOD	SM5210B	2000	ug/L	BQL	2400	BQL	BQL	BQL
Iron	EPA 6010C	8.1	ug/L	8800	4670	20.1	2400	1260
Nitrate	EPA 353.2	21	ug/L	260	180	38	190000	14000
Temperature	Field Instrument	0	Degrees C	11.5	9.8	9.9	10.5	12.7
ORP	Field Instrument	-900	mV	155	194	21	123	232
DO	Field Instrument	0	mg/L	0.5	0.5	0.8	0.4	0.9
pH	Field Instrument	0	Standard Units	5.82	5.79	6.32	6.91	5.62
Specific Conductance	Field Instrument	0	us/cm	470	382	960	1341	228
Turbidity	Field Instrument	0	NTU	12.3	9.86	8.88	10.2	16.2

Notes:
VFA = Volitile Fatty Acid
MDL* = Lowest Method Detection Limit for Lab Parameters or Lowest Field Measurement Possible
BQL = Below Quantitation Limit
>100 = CO_2 Concentration Exceeds Maximum capability of Method Used

Table 2: Reductive Dechlorination Assessment

	Tetrachloroethene (Perchloroethene – PCE)				Trichloroethene (TCE)				1,1-Dichloroethene (1,1-DCE)				cis-1,2-Dichlorethene (cis-1,2-DCE)			
	Jul-09	Jan-10			Jul-09	Jan-10			Jul-09	Jan-10			Jul-09	Jan-10		
MW-1	BQL	BQL			BQL	BQL			BQL	BQL			BQL	BQL		
MW-3	BQL	BQL			BQL	BQL			BQL	BQL			BQL	BQL		
MW-9	0.8	BQL			0.7	BQL			BQL	BQL			0.7	BQL		
MW-10	BQL	BQL			BQL	BQL			BQL	BQL			BQL	BQL		
MW-2	BQL	BQL			BQL	BQL			BQL	BQL			BQL	BQL		
MW-6	1.0	BQL			BQL	BQL			BQL	BQL			BQL	BQL		
MW-7	BQL	0.54			BQL	BQL			BQL	BQL			1.0	1.4		
MW-24	BQL	BQL			BQL	BQL			BQL	BQL			BQL	BQL		
MW-25	BQL	BQL			BQL	BQL			BQL	BQL			BQL	BQL		

Notes:

1. The selected chlorinated solvents consist of the target parent compound and several target daughter compounds.
2. Analytes were analyzed per EPA Test Method 8260. Detections are presented in micrograms per liter (µg/L).
3. BQL = Below Quantitation Limit
4. Red Text identifies an increase in concentration when compared to the prior event.
5. Green Text identifies a decrease in concentratios when compared to the prior event.

Table 2: Reductive Dechlorination Assessment

Vinyl Chloride (VC)				Ethene (ETH)				Ethane (ETH)			
Jul-09	Jan-10			9-Jul	Jan-10			9-Jul	Jan-10		
BQL	BQL			0.006	<0.010			BQL	<0.010		
BQL	BQL			0.006	<0.010			0.002	<0.010		
BQL	BQL			0.008	<0.010			0.008	<0.010		
BQL	BQL			0.011	<0.010			0.003	<0.010		
BQL	BQL			0.006	<0.010			0.059	0.056		
BQL	BQL			0.031	<0.010			0.004	<0.010		
BQL	0.45			0.061	<0.010			0.061	0.041		
BQL	BQL			0.002	<0.010			0.002	<0.010		
BQL	BQL			0.170	<0.010			0.210	<0.010		

Table 3: Natural Attenuation Properties

	Oxygen (DO)				Nitrate (NO3)				Ferrious Iron (Fe2+)				Sulfate (SO4)				Methane			
	Jul-09	Jan-10			Jul-09	Jan-10			Jul-09	Jan-10			Jul-09	Jan-10			Jul-09	Jan-10		
MW-1	0.8	0.9			201	60			39100	2740			10600	7300			42	2.8		
MW-3	2.4	0.3			23000	2100			207	2960			189000*	150000			12	24		
MW-9	1.8	1.3			283	170			3010	8450			15200	11000			7.6	0.26		
MW-10	0.9	0.9			2700	10000			1770	1330			10700	8700			1.6	<0.015		
MW-2	1.3	0.5			3200	260			2680	8800			80500*	60000			240	1100		
MW-6	1.3	0.9			10000	14000			1090	1260			8730	31000			39	9.5		
MW-7	0.8	0.8			BQL	38			94.3	20			BQL	5400			240	360		
MW-24	1.9	0.4			BQL	190000			2180	2400			29300	50000			0.6	1.4		
MW-25	1.3	0.5			1680	180			3770	4670			32100	47000			3.1	11		

Note:
1. The selected parameters consist of target properties to help identify the attenuation environment.
2. Analytes were analyzed in accordance with the appropriate method, listed on Table 1.
3. DO detections are presented in milligrams per liter (mg/L); all others are presented in micrograms per liter (ug/L).
4. BQL = Below Quantitation Limit.
5. Red Text identifies an increase in concentration when compared to the prior event.
6. Green Text identifies a decrease in concentratios when compared to the prior event.

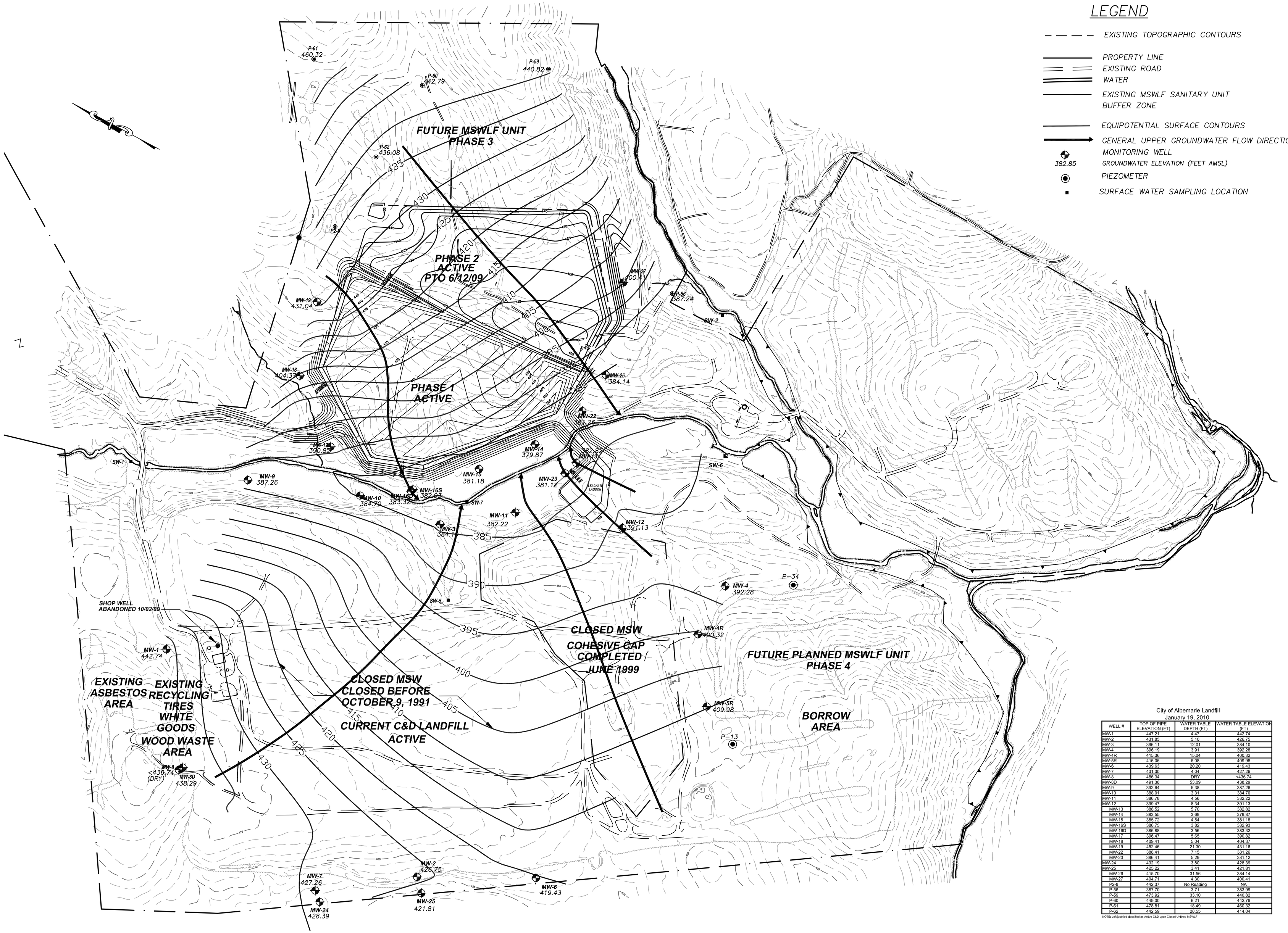
* Sulfate analysis for MW-3 uses a dilution factor of 10 (MDL = 50000)

* Sulfate analysis for MW-2 uses a dilution factor of 5 (MDL = 25000)

Table 4: General Tree Evaluation

Tree Number	Height (in)	Middle Width (in)	Trunk Circumference (in)	Height (in)	Middle Width (in)	Trunk Circumference (in)
	07/29/09			04/20/10		
1	15	4	1.25	17	4	1.25
2	22	4	1.5	23	4	1.5
3	27	4	1.5	29	2	1.5
4	18	4	1.25	20	4	1.25
5	21	4	1.5	23	4	1.5
6	19	6	1.5	20	6	1.5
7	22	11	1.5	23	12	1.5
8	26	12	1.5	26	12	1.5
9	23	9	1.25	24	10	1.5
10	29	12	1.5	30	13	1.5
11	31	10	1.75	31	10	1.75
12	28	13	1.75	29	14	2
13	20	12	2	21	13	2
14	22	12	1.5	23	13	1.75
15	28	14	1.75	30	15	1.75

NOTE: All cuttings planted with approximate 12” stick-up, as bud only cuttings, tree circumference approximately 1”.



City of Albemarle Landfill
January 19, 2010

WELL #	TOP OF PIPE ELEVATION (FT)	WATER TABLE DEPTH (FT)	WATER TABLE ELEVATION (FT)
MW-1	447.21	4.47	442.74
MW-2	431.85	5.10	426.75
MW-3	396.11	12.01	384.10
MW-4	396.19	3.91	392.28
MW-4R	415.36	15.04	400.32
MW-5R	416.06	6.08	409.98
MW-6	439.63	20.20	419.43
MW-7	431.30	4.04	427.26
MW-8	486.34	DRY	<436.74
MW-8D	491.38	53.09	438.29
MW-9	392.64	5.38	387.26
MW-10	388.01	3.31	384.70
MW-11	386.78	4.56	382.22
MW-12	399.47	8.34	391.13
MW-13	388.52	5.70	382.82
MW-14	383.55	3.68	379.87
MW-15	385.72	4.54	381.18
MW-16S	386.75	3.82	382.93
MW-16D	386.88	3.56	383.32
MW-17	396.47	5.65	390.82
MW-18	409.41	5.04	404.37
MW-19	452.46	21.30	431.16
MW-22	388.41	7.15	381.26
MW-23	386.41	5.29	381.12
MW-24	432.19	3.80	428.39
MW-25	425.22	3.41	421.81
MW-26	415.70	31.56	384.14
MW-27	404.71	4.30	400.41
PZ-8	442.37	No Reading	NA
P-56	387.70	3.71	383.99
P-59	473.92	33.10	440.82
P-60	449.00	6.21	442.79
P-61	478.81	18.49	460.32
P-62	442.59	28.55	414.04

NOTE: Left justified described as Active C&D upon Closed Unlined MSWLF

Municipal Engineering Services Company, P.A.
LICENSE NUMBER: C-0281
P.O. BOX 97 GARNER, N.C. 27529 (919) 772-5393
P.O. BOX 349 BOONE, N.C. 28607 (828) 262-1767

ACTIVE SUBTITLE D LINED MSWLF
ACTIVE C&D OVER CLOSED MSWLF
CITY OF ALBEMARLE
NORTH CAROLINA

DATE	BY	REV.	DESCRIPTION

SINGLE-DAY POTENTIOMETRIC MAP (UPPERMOST AQUIFER)

SCALE: 1"=200'
DATE: 2/10/10
DRWN. BY: J. PFOHL
CHKD. BY: M. BROWN
PROJECT NUMBER G10008.0
DRAWING NO. PLATE 1
SHEET NO. 1 of 1

LEGEND

- 2001 CONTOURS
- PROPERTY LINE
- EXISITING ROAD
- WATER
- P-13 PIEZOMETER LOCATION
- CLOSED MSWLF SANITARY UNIT
- EXISTING MSWLF SANITARY UNIT
- BUFFER ZONE
- SW-5 SURFACE WATER SAMPLING LOCATION
- MW-4 MONITORING WELL
- Phytoremediation Area

*CONTAMINANTS OF CONCERN LISTED FROM 1-28-10 SAMPLING EVENT

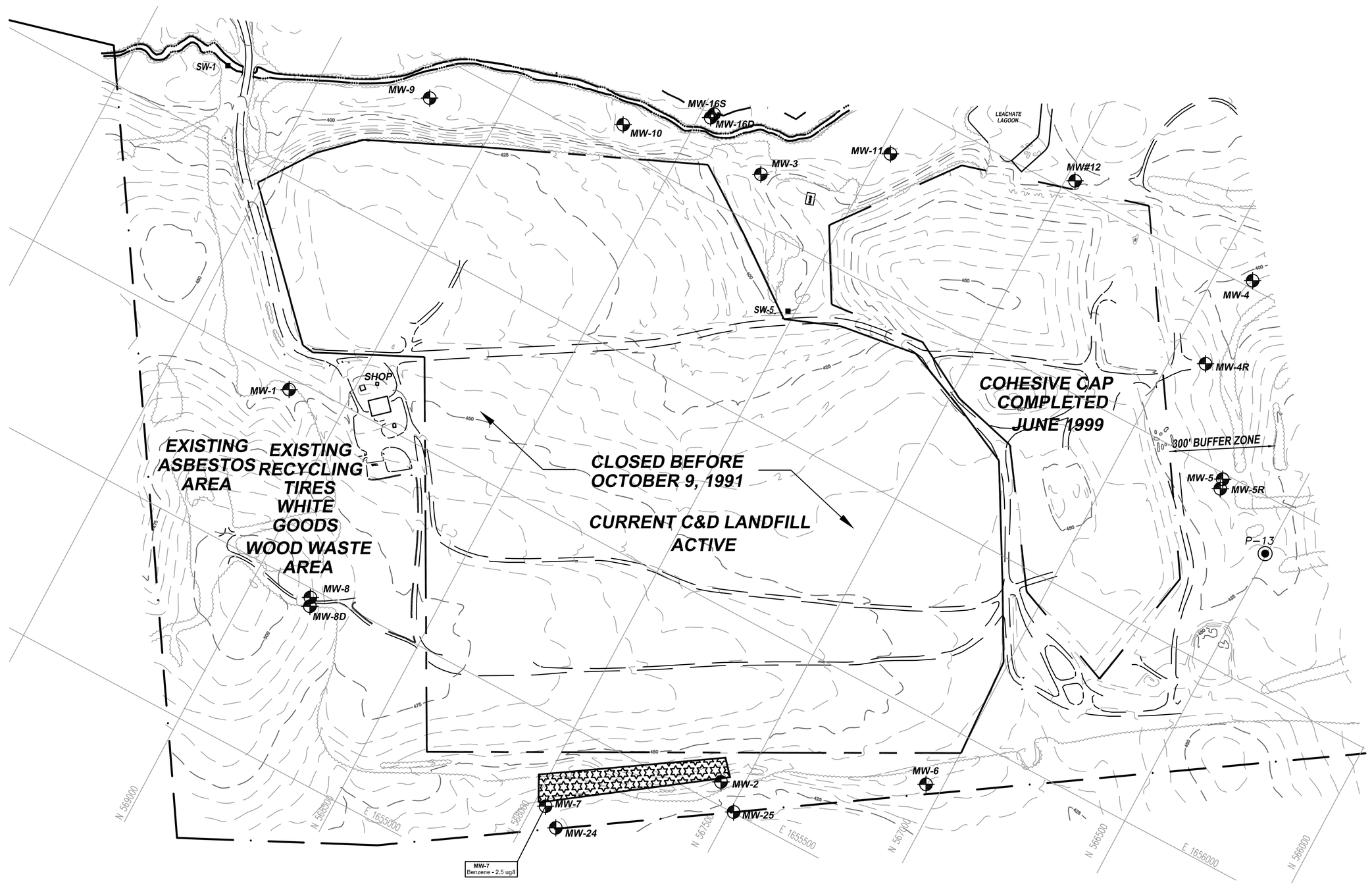


PLATE 2

Municipal Engineering Services Company, P.A.
LICENSE NUMBER: C-0281
P.O. BOX 97 GARNER, N.C. 27529 (919) 772-5393
P.O. BOX 349 BOONE, N.C. 28607 (828) 262-1767

CLOSED MSWLF AND ACTIVE C&D LANDFILL FACILITY
CITY OF ALBEMARLE NORTH CAROLINA

DATE	BY	REV.	DESCRIPTION

ESTIMATED CONTAMINANTS OF CONCERN ABOVE 2L

SCALE:	1"=200'
DATE:	3/10/2010
DRWN. BY:	M. GERMAN
CHKD. BY:	M. BROWN
PROJECT NUMBER	G07059.0
DRAWING NO.	PLATE 2
SHEET NO.	1 of 1

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

Friday, February 5, 2010

Municipal Engineering Services (MU001)

Attn: Jonathan Pfohl

P.O. Box 97

Garner, NC 27529

RE: Laboratory Results for
Project Number: G10009.0, Project Name/Desc: Albemarle Closed MNA
ENCO Workorder: C000463

Dear Jonathan Pfohl,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, January 22, 2010.

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 71.

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: MW-1 **Lab ID:** C000463-01 **Sampled:** 01/20/10 14:35 **Received:** 01/22/10 09:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	02/17/10		02/01/10	06:56	2/1/2010 21:55
EPA 310.2	02/03/10		01/26/10	06:50	1/26/2010 09:11
EPA 353.2	01/22/10	14:35	01/22/10	10:33	1/22/2010 12:42
EPA 353.2	02/17/10		02/01/10	11:06	2/1/2010 13:40
EPA 353.2	02/17/10		02/02/10	11:22	2/2/2010 11:22
EPA 6010C	07/19/10		01/25/10	10:01	2/2/2010 11:37
EPA 6020A	07/19/10		01/25/10	11:54	1/27/2010 10:47
EPA 8260B	02/03/10		01/23/10	07:39	1/23/2010 19:33
SM 5210B	01/22/10	14:35	01/22/10	11:57	1/22/2010 11:57
SM 5220D	02/17/10		01/29/10	11:00	1/29/2010 13:40
SM18 4500-S D	01/27/10		01/26/10	11:25	1/26/2010 11:44
SM18 5310B	02/17/10		01/27/10	12:00	1/27/2010 13:01

Client ID: MW-2 **Lab ID:** C000463-02 **Sampled:** 01/21/10 10:10 **Received:** 01/22/10 09:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	02/18/10		02/01/10	06:56	2/1/2010 22:11
EPA 310.2	02/04/10		01/26/10	06:50	1/26/2010 09:13
EPA 353.2	01/23/10	10:10	01/22/10	10:33	1/22/2010 12:45
EPA 353.2	02/18/10		02/01/10	11:06	2/1/2010 13:47
EPA 353.2	02/18/10		02/02/10	11:22	2/2/2010 11:22
EPA 6010C	07/20/10		01/25/10	10:01	2/2/2010 11:40
EPA 6020A	07/20/10		01/25/10	11:54	1/27/2010 10:51
EPA 8260B	02/04/10		01/23/10	07:39	1/23/2010 20:03
SM 5210B	01/23/10	10:10	01/22/10	11:57	1/22/2010 11:57
SM 5220D	02/18/10		01/29/10	11:00	1/29/2010 13:40
SM18 4500-S D	01/28/10		01/26/10	11:25	1/26/2010 11:44
SM18 5310B	02/18/10		01/27/10	12:00	1/27/2010 13:01

Client ID: MW-3 **Lab ID:** C000463-03 **Sampled:** 01/20/10 12:25 **Received:** 01/22/10 09:15

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	02/17/10		02/01/10	06:56	2/1/2010 22:28
EPA 310.2	02/03/10		01/26/10	06:50	1/26/2010 09:14
EPA 353.2	01/22/10	12:25	01/22/10	10:33	1/22/2010 12:40
EPA 353.2	02/17/10		02/01/10	11:06	2/1/2010 13:53
EPA 353.2	02/17/10		02/02/10	11:22	2/2/2010 11:22
EPA 6010C	07/19/10		01/25/10	10:01	2/2/2010 11:42
EPA 6020A	07/19/10		01/25/10	11:54	1/27/2010 10:54
EPA 8260B	02/03/10		01/28/10	14:55	1/29/2010 07:19
SM 5210B	01/22/10	12:25	01/22/10	11:57	1/22/2010 11:57
SM 5220D	02/17/10		01/29/10	11:00	1/29/2010 13:40
SM18 4500-S D	01/27/10		01/26/10	11:25	1/26/2010 11:44
SM18 5310B	02/17/10		01/27/10	12:00	1/27/2010 13:01

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Client ID:	MW-3	Lab ID:	C000463-03RE1	Sampled:	01/20/10 12:25	Received:	01/22/10 09:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	02/17/10	02/01/10 06:56	2/2/2010 10:11

Client ID:	MW-6	Lab ID:	C000463-04	Sampled:	01/21/10 13:40	Received:	01/22/10 09:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	02/18/10	02/01/10 06:56	2/1/2010 22:45
EPA 310.2	02/04/10	01/26/10 06:50	1/26/2010 09:15
EPA 353.2	01/23/10 13:40	01/22/10 10:33	1/22/2010 12:47
EPA 353.2	02/18/10	02/02/10 11:22	2/2/2010 11:22
EPA 6010C	07/20/10	01/25/10 10:01	2/2/2010 11:53
EPA 6020A	07/20/10	01/25/10 11:54	1/27/2010 10:58
EPA 8260B	02/04/10	01/29/10 12:58	1/31/2010 11:28
SM 5210B	01/23/10 13:40	01/22/10 11:57	1/22/2010 11:57
SM 5220D	02/18/10	01/29/10 11:00	1/29/2010 13:40
SM18 4500-S D	01/28/10	01/26/10 11:25	1/26/2010 11:44
SM18 5310B	02/18/10	01/27/10 12:00	1/27/2010 13:01

Client ID:	MW-6	Lab ID:	C000463-04RE1	Sampled:	01/21/10 13:40	Received:	01/22/10 09:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 353.2	02/18/10	02/01/10 11:06	2/1/2010 15:24

Client ID:	MW-7	Lab ID:	C000463-05	Sampled:	01/21/10 15:20	Received:	01/22/10 09:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	02/18/10	02/01/10 06:56	2/1/2010 23:01
EPA 310.2	02/04/10	01/26/10 06:50	1/26/2010 09:16
EPA 353.2	01/23/10 15:20	01/22/10 10:33	1/22/2010 12:48
EPA 353.2	02/18/10	02/01/10 11:06	2/1/2010 13:58
EPA 353.2	02/18/10	02/02/10 11:22	2/2/2010 11:22
EPA 6010C	07/20/10	01/25/10 10:01	2/2/2010 11:57
EPA 6020A	07/20/10	01/25/10 11:54	1/27/2010 11:02
EPA 8260B	02/04/10	01/29/10 12:58	1/31/2010 11:57
SM 5210B	01/23/10 15:20	01/22/10 11:57	1/22/2010 11:57
SM 5220D	02/18/10	01/29/10 11:00	1/29/2010 13:40
SM18 4500-S D	01/28/10	01/26/10 11:25	1/26/2010 11:44
SM18 5310B	02/18/10	01/27/10 12:00	1/27/2010 13:01

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Client ID: MW-9	Lab ID: C000463-06	Sampled: 01/20/10 16:05	Received: 01/22/10 09:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	02/17/10	02/01/10 06:56	2/1/2010 23:51
EPA 310.2	02/03/10	01/26/10 06:50	1/26/2010 09:17
EPA 353.2	01/22/10 16:05	01/22/10 10:33	1/22/2010 12:44
EPA 353.2	02/17/10	02/01/10 11:06	2/1/2010 14:00
EPA 353.2	02/17/10	02/02/10 11:22	2/2/2010 11:22
EPA 6010C	07/19/10	01/25/10 10:01	2/2/2010 11:59
EPA 6020A	07/19/10	01/25/10 11:54	1/27/2010 11:13
EPA 8260B	02/03/10	01/28/10 14:55	1/29/2010 07:48
SM 5210B	01/22/10 16:05	01/22/10 11:57	1/22/2010 11:57
SM 5220D	02/17/10	01/29/10 11:00	1/29/2010 13:40
SM18 4500-S D	01/27/10	01/26/10 11:25	1/26/2010 11:44
SM18 5310B	02/17/10	01/27/10 12:00	1/27/2010 13:01

Client ID: MW-10	Lab ID: C000463-07	Sampled: 01/20/10 13:30	Received: 01/22/10 09:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	02/17/10	02/01/10 06:56	2/2/2010 00:08
EPA 353.2	01/22/10 13:30	01/22/10 10:33	1/22/2010 12:41
EPA 353.2	02/17/10	02/02/10 11:22	2/2/2010 11:22
EPA 6010C	07/19/10	01/25/10 10:01	2/2/2010 11:23
EPA 6020A	07/19/10	01/25/10 11:54	1/27/2010 11:16
EPA 8260B	02/03/10	01/28/10 14:55	1/29/2010 08:16
SM 5210B	01/22/10 13:30	01/22/10 11:57	1/22/2010 11:57
SM 5220D	02/17/10	01/29/10 11:00	1/29/2010 13:40
SM18 4500-S D	01/27/10	01/26/10 11:25	1/26/2010 11:44
SM18 5310B	02/17/10	01/27/10 12:00	1/27/2010 13:01

Client ID: MW-10	Lab ID: C000463-07RE1	Sampled: 01/20/10 13:30	Received: 01/22/10 09:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	02/17/10	02/01/10 06:56	2/2/2010 10:28
EPA 310.2	02/03/10	01/26/10 06:50	1/26/2010 09:44
EPA 353.2	02/17/10	02/01/10 11:06	2/1/2010 15:25

Client ID: MW-24	Lab ID: C000463-08	Sampled: 01/21/10 11:30	Received: 01/22/10 09:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	02/18/10	02/01/10 06:56	2/2/2010 00:25
EPA 310.2	02/04/10	01/26/10 06:50	1/26/2010 09:18
EPA 353.2	01/23/10 11:30	01/22/10 10:33	1/22/2010 12:46
EPA 353.2	02/18/10	02/02/10 11:22	2/2/2010 11:22
EPA 6010C	07/20/10	01/25/10 10:01	2/2/2010 12:02
EPA 6020A	07/20/10	01/25/10 11:54	1/27/2010 11:20
EPA 8260B	02/04/10	01/29/10 12:30	1/30/2010 22:04
SM 5210B	01/23/10 11:30	01/22/10 11:57	1/22/2010 11:57
SM 5220D	02/18/10	01/29/10 11:00	1/29/2010 13:40
SM18 4500-S D	01/28/10	01/26/10 11:25	1/26/2010 11:44
SM18 5310B	02/18/10	01/27/10 12:00	1/27/2010 13:01

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Client ID: MW-24	Lab ID: C000463-08RE2	Sampled: 01/21/10 11:30	Received: 01/22/10 09:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 353.2	02/18/10	02/01/10 11:06	2/1/2010 15:52

Client ID: MW-25	Lab ID: C000463-09	Sampled: 01/21/10 09:00	Received: 01/22/10 09:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 300.0	02/18/10	02/01/10 06:56	2/2/2010 00:41
EPA 310.2	02/04/10	01/26/10 06:50	1/26/2010 09:19
EPA 353.2	01/23/10 09:00	01/22/10 10:33	1/22/2010 12:45
EPA 353.2	02/18/10	02/01/10 11:06	2/1/2010 14:06
EPA 353.2	02/18/10	02/02/10 11:22	2/2/2010 11:22
EPA 6010C	07/20/10	01/25/10 10:01	2/2/2010 12:05
EPA 6020A	07/20/10	01/25/10 11:54	1/27/2010 11:23
EPA 8260B	02/04/10	01/29/10 12:30	1/30/2010 22:33
SM 5210B	01/23/10 09:00	01/22/10 11:57	1/22/2010 11:57
SM 5220D	02/18/10	01/29/10 11:00	1/29/2010 13:40
SM18 4500-S D	01/28/10	01/26/10 11:25	1/26/2010 11:44
SM18 5310B	02/18/10	01/27/10 12:00	1/27/2010 13:01

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: MW-1 **Lab ID:** C000463-01

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.118	J	1	0.0730	2.00	6	ug/L	EPA 6020A	
Barium - Total	38.3	J	1	0.250	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.193	J	1	0.0860	1.00	1	ug/L	EPA 6010C	
Cadmium - Total	0.404	J	1	0.130	1.00	1	ug/L	EPA 6010C	
Chemical Oxygen Demand	18000		1	2800	10000	NE	ug/L	SM 5220D	
Chloride	3700	J	1	18	5000	NE	ug/L	EPA 300.0	
Chromium - Total	1.77	J	1	1.70	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	3.87	J	1	0.410	10.0	10	ug/L	EPA 6010C	
Copper - Total	5.32	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Iron - Total	2740		1	8.10	50.0	300	ug/L	EPA 6010C	
Lead - Total	4.21	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	2.60	J	1	1.60	10.0	50	ug/L	EPA 6010C	
Nitrate as N	60	J	1	21	100	10	ug/L	EPA 353.2	
Nitrate/Nitrite as N	70	J	1	21	100	NE	ug/L	EPA 353.2	
Nitrite as N	10	JB	1	5.6	100	1	ug/L	EPA 353.2	J-01
Silver - Total	0.999	JB	1	0.480	10.0	10	ug/L	EPA 6010C	J-01
Sulfate as SO4	7300		1	180	5000	250	ug/L	EPA 300.0	
Total Organic Carbon	9300		1	320	1000	NE	ug/L	SM18 5310B	
Vanadium - Total	2.71	J	1	0.400	10.0	25	ug/L	EPA 6010C	
Zinc - Total	82.6		1	1.60	10.0	10	ug/L	EPA 6010C	

Client ID: MW-2 **Lab ID:** C000463-02

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.204	J	1	0.0730	2.00	6	ug/L	EPA 6020A	
Arsenic - Total	7.76	J	1	3.90	10.0	10	ug/L	EPA 6010C	
Barium - Total	25.2	J	1	0.250	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.221	J	1	0.0860	1.00	1	ug/L	EPA 6010C	
Cadmium - Total	0.146	J	1	0.130	1.00	1	ug/L	EPA 6010C	
Chemical Oxygen Demand	55000		1	2800	10000	NE	ug/L	SM 5220D	
Chloride	43000		1	18	5000	NE	ug/L	EPA 300.0	
Chromium - Total	2.42	J	1	1.70	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	48.9		1	0.410	10.0	10	ug/L	EPA 6010C	
Copper - Total	7.67	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Iron - Total	8800		1	8.10	50.0	300	ug/L	EPA 6010C	
Lead - Total	7.31	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	29.7	J	1	1.60	10.0	50	ug/L	EPA 6010C	
Nitrate as N	260		1	21	100	10	ug/L	EPA 353.2	
Nitrate/Nitrite as N	260		1	21	100	NE	ug/L	EPA 353.2	
Nitrite as N	7.9	JB	1	5.6	100	1	ug/L	EPA 353.2	J-01
Silver - Total	1.54	JB	1	0.480	10.0	10	ug/L	EPA 6010C	J-01
Sulfate as SO4	60000		1	180	5000	250	ug/L	EPA 300.0	
Total Alkalinity	100000		1	8000	15000	NE	ug/L	EPA 310.2	
Total Organic Carbon	12000		1	320	1000	NE	ug/L	SM18 5310B	
Vanadium - Total	1.37	J	1	0.400	10.0	25	ug/L	EPA 6010C	
Zinc - Total	26.0		1	1.60	10.0	10	ug/L	EPA 6010C	

Client ID: MW-3 **Lab ID:** C000463-03

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.583	J	1	0.0730	2.00	6	ug/L	EPA 6020A	

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Client ID: MW-3						Lab ID: C000463-03			
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Arsenic - Total	17.9		1	3.90	10.0	10	ug/L	EPA 6010C	
Barium - Total	65.9	J	1	0.250	10.0	100	ug/L	EPA 6010C	
Biochemical Oxygen Demand	8200		1	2000	2000	NE	ug/L	SM 5210B	B-04
Cadmium - Total	0.456	J	1	0.130	1.00	1	ug/L	EPA 6010C	
Chemical Oxygen Demand	61000		1	2800	10000	NE	ug/L	SM 5220D	
Chloride	34000		1	18	5000	NE	ug/L	EPA 300.0	
Chromium - Total	6.56	J	1	1.70	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	28.3		1	0.410	10.0	10	ug/L	EPA 6010C	
Copper - Total	12.2		1	1.90	10.0	10	ug/L	EPA 6010C	
Iron - Total	2960		1	8.10	50.0	300	ug/L	EPA 6010C	
Lead - Total	4.11	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	5.54	J	1	1.60	10.0	50	ug/L	EPA 6010C	
Nitrate as N	2100		1	21	100	10	ug/L	EPA 353.2	
Nitrate/Nitrite as N	2200		1	21	100	NE	ug/L	EPA 353.2	
Nitrite as N	23	JB	1	5.6	100	1	ug/L	EPA 353.2	J-01, Q
Silver - Total	1.95	JB	1	0.480	10.0	10	ug/L	EPA 6010C	J-01
Thallium - Total	0.148	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Total Alkalinity	180000		1	8000	15000	NE	ug/L	EPA 310.2	
Total Organic Carbon	21000		1	320	1000	NE	ug/L	SM18 5310B	
Vanadium - Total	7.69	J	1	0.400	10.0	25	ug/L	EPA 6010C	
Zinc - Total	5.68	J	1	1.60	10.0	10	ug/L	EPA 6010C	

Client ID: MW-3						Lab ID: C000463-03RE1			
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Sulfate as SO4	150000	D	2	360	10000	250	ug/L	EPA 300.0	

Client ID: MW-6						Lab ID: C000463-04			
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Antimony - Total	0.244	J	1	0.0730	2.00	6	ug/L	EPA 6020A	
Barium - Total	3.24	J	1	0.250	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.157	J	1	0.0860	1.00	1	ug/L	EPA 6010C	
Cadmium - Total	0.547	J	1	0.130	1.00	1	ug/L	EPA 6010C	
Chemical Oxygen Demand	25000		1	2800	10000	NE	ug/L	SM 5220D	
Chloride	6400		1	18	5000	NE	ug/L	EPA 300.0	
Chromium - Total	2.43	J	1	1.70	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	1.26	J	1	0.410	10.0	10	ug/L	EPA 6010C	
Iron - Total	1260		1	8.10	50.0	300	ug/L	EPA 6010C	
Lead - Total	3.01	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Methylene chloride	0.95	J	1	0.070	1.0	1	ug/L	EPA 8260B	
Nickel - Total	1.94	J	1	1.60	10.0	50	ug/L	EPA 6010C	
Nitrate as N	14000		1	21	100	10	ug/L	EPA 353.2	
Nitrite as N	7.3	JB	1	5.6	100	1	ug/L	EPA 353.2	J-01
Silver - Total	1.63	JB	1	0.480	10.0	10	ug/L	EPA 6010C	J-01
Sulfate as SO4	31000		1	180	5000	250	ug/L	EPA 300.0	
Total Alkalinity	13000	J	1	8000	15000	NE	ug/L	EPA 310.2	
Total Organic Carbon	6300		1	320	1000	NE	ug/L	SM18 5310B	
Trichlorofluoromethane	1.5		1	0.15	1.0	1	ug/L	EPA 8260B	
Vanadium - Total	1.85	J	1	0.400	10.0	25	ug/L	EPA 6010C	
Zinc - Total	10.8		1	1.60	10.0	10	ug/L	EPA 6010C	

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Client ID: MW-6 **Lab ID:** C000463-04RE1

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Nitrate/Nitrite as N	14000	D	10	210	1000	NE	ug/L	EPA 353.2	

Client ID: MW-7 **Lab ID:** C000463-05

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,1-Dichloroethane	3.4	J	1	0.050	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	1.9		1	0.10	1.0	1	ug/L	EPA 8260B	
Antimony - Total	0.219	J	1	0.0730	2.00	6	ug/L	EPA 6020A	
Barium - Total	22.4	J	1	0.250	10.0	100	ug/L	EPA 6010C	
Benzene	2.5		1	0.050	1.0	1	ug/L	EPA 8260B	
Cadmium - Total	1.21		1	0.130	1.00	1	ug/L	EPA 6010C	
Chemical Oxygen Demand	3100	J	1	2800	10000	NE	ug/L	SM 5220D	
Chloride	86000		1	18	5000	NE	ug/L	EPA 300.0	
Chlorobenzene	5.4		1	0.069	1.0	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	1.4	J	1	0.075	1.0	5	ug/L	EPA 8260B	
Cobalt - Total	0.469	J	1	0.410	10.0	10	ug/L	EPA 6010C	
Iron - Total	20.1	J	1	8.10	50.0	300	ug/L	EPA 6010C	
Lead - Total	2.77	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	10.6	J	1	1.60	10.0	50	ug/L	EPA 6010C	
Nitrate as N	38	J	1	21	100	10	ug/L	EPA 353.2	
Nitrate/Nitrite as N	38	J	1	21	100	NE	ug/L	EPA 353.2	
Silver - Total	1.42	JB	1	0.480	10.0	10	ug/L	EPA 6010C	J-01
Sulfate as SO4	5400		1	180	5000	250	ug/L	EPA 300.0	
Tetrachloroethene	0.54	J	1	0.099	1.0	1	ug/L	EPA 8260B	
Total Alkalinity	150000		1	8000	15000	NE	ug/L	EPA 310.2	
Total Organic Carbon	7400		1	320	1000	NE	ug/L	SM18 5310B	
Trichlorofluoromethane	0.44	J	1	0.15	1.0	1	ug/L	EPA 8260B	
Vanadium - Total	0.520	J	1	0.400	10.0	25	ug/L	EPA 6010C	
Vinyl chloride	0.45	J	1	0.083	1.0	1	ug/L	EPA 8260B	
Zinc - Total	8.18	J	1	1.60	10.0	10	ug/L	EPA 6010C	

Client ID: MW-9 **Lab ID:** C000463-06

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic - Total	7.49	J	1	3.90	10.0	10	ug/L	EPA 6010C	
Barium - Total	32.1	J	1	0.250	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.368	J	1	0.0860	1.00	1	ug/L	EPA 6010C	
Cadmium - Total	0.367	J	1	0.130	1.00	1	ug/L	EPA 6010C	
Chemical Oxygen Demand	100000		1	2800	10000	NE	ug/L	SM 5220D	
Chloride	44000		1	18	5000	NE	ug/L	EPA 300.0	
Chromium - Total	25.8		1	1.70	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	3.53	J	1	0.410	10.0	10	ug/L	EPA 6010C	
Copper - Total	9.26	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Iron - Total	8450		1	8.10	50.0	300	ug/L	EPA 6010C	
Lead - Total	6.12	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	11.9	J	1	1.60	10.0	50	ug/L	EPA 6010C	
Nitrate as N	170		1	21	100	10	ug/L	EPA 353.2	
Nitrate/Nitrite as N	170		1	21	100	NE	ug/L	EPA 353.2	
Silver - Total	1.68	JB	1	0.480	10.0	10	ug/L	EPA 6010C	J-01
Sulfate as SO4	11000		1	180	5000	250	ug/L	EPA 300.0	
Total Alkalinity	30000		1	8000	15000	NE	ug/L	EPA 310.2	
Total Organic Carbon	3900		1	320	1000	NE	ug/L	SM18 5310B	
Vanadium - Total	19.9	J	1	0.400	10.0	25	ug/L	EPA 6010C	

Client ID: MW-9 **Lab ID: C000463-06**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Zinc - Total	22.4		1	1.60	10.0	10	ug/L	EPA 6010C	

Client ID: MW-10 **Lab ID: C000463-07**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony - Total	0.248	J	1	0.0730	2.00	6	ug/L	EPA 6020A	
Barium - Total	95.2	J	1	0.250	10.0	100	ug/L	EPA 6010C	
Biochemical Oxygen Demand	43000		1	2000	2000	NE	ug/L	SM 5210B	B-04
Cadmium - Total	0.270	J	1	0.130	1.00	1	ug/L	EPA 6010C	
Chemical Oxygen Demand	190000		1	2800	10000	NE	ug/L	SM 5220D	
Chromium - Total	3.08	J	1	1.70	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	7.54	J	1	0.410	10.0	10	ug/L	EPA 6010C	
Iron - Total	1330		1	8.10	50.0	300	ug/L	EPA 6010C	
Lead - Total	3.51	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	27.6	J	1	1.60	10.0	50	ug/L	EPA 6010C	
Nitrate as N	10000		1	21	100	10	ug/L	EPA 353.2	
Nitrite as N	190	B	1	5.6	100	1	ug/L	EPA 353.2	QB-01
Silver - Total	0.758	JB	1	0.480	10.0	10	ug/L	EPA 6010C	J-01
Sulfate as SO4	8700		1	180	5000	250	ug/L	EPA 300.0	
Total Organic Carbon	51000		1	320	1000	NE	ug/L	SM18 5310B	
Vanadium - Total	1.89	J	1	0.400	10.0	25	ug/L	EPA 6010C	
Zinc - Total	9.52	J	1	1.60	10.0	10	ug/L	EPA 6010C	

Client ID: MW-10 **Lab ID: C000463-07RE1**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Chloride	290000	D	4	72	20000	NE	ug/L	EPA 300.0	
Nitrate/Nitrite as N	10000	D	10	210	1000	NE	ug/L	EPA 353.2	
Total Alkalinity	630000	D	5	40000	75000	NE	ug/L	EPA 310.2	

Client ID: MW-24 **Lab ID: C000463-08**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	15.4	J	1	0.250	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.136	J	1	0.0860	1.00	1	ug/L	EPA 6010C	
Cadmium - Total	0.296	J	1	0.130	1.00	1	ug/L	EPA 6010C	
Chemical Oxygen Demand	5300	J	1	2800	10000	NE	ug/L	SM 5220D	
Chloride	35000		1	18	5000	NE	ug/L	EPA 300.0	
Chromium - Total	3.03	J	1	1.70	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	3.50	J	1	0.410	10.0	10	ug/L	EPA 6010C	
Iron - Total	2400		1	8.10	50.0	300	ug/L	EPA 6010C	
Lead - Total	2.63	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	2.19	J	1	1.60	10.0	50	ug/L	EPA 6010C	
Nitrate as N	190000		1	21	100	10	ug/L	EPA 353.2	
Silver - Total	1.11	JB	1	0.480	10.0	10	ug/L	EPA 6010C	J-01
Sulfate as SO4	50000		1	180	5000	250	ug/L	EPA 300.0	
Total Alkalinity	54000		1	8000	15000	NE	ug/L	EPA 310.2	
Total Organic Carbon	5000		1	320	1000	NE	ug/L	SM18 5310B	
Vanadium - Total	3.55	J	1	0.400	10.0	25	ug/L	EPA 6010C	
Zinc - Total	6.74	J	1	1.60	10.0	10	ug/L	EPA 6010C	

Client ID: MW-24 **Lab ID: C000463-08RE2**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Nitrate/Nitrite as N	190000	D	97.5	2000	9800	NE	ug/L	EPA 353.2	

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Client ID: MW-25								Lab ID: C000463-09	
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Antimony - Total	0.114	J	1	0.0730	2.00	6	ug/L	EPA 6020A	
Arsenic - Total	4.34	J	1	3.90	10.0	10	ug/L	EPA 6010C	
Barium - Total	13.3	J	1	0.250	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.157	J	1	0.0860	1.00	1	ug/L	EPA 6010C	
Biochemical Oxygen Demand	2400		1	2000	2000	NE	ug/L	SM 5210B	B-04
Cadmium - Total	0.573	J	1	0.130	1.00	1	ug/L	EPA 6010C	
Chemical Oxygen Demand	14000		1	2800	10000	NE	ug/L	SM 5220D	
Chloride	52000		1	18	5000	NE	ug/L	EPA 300.0	
Chromium - Total	4.93	J	1	1.70	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	4.13	J	1	0.410	10.0	10	ug/L	EPA 6010C	
Copper - Total	5.51	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Iron - Total	4670		1	8.10	50.0	300	ug/L	EPA 6010C	
Lead - Total	6.22	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Nickel - Total	15.2	J	1	1.60	10.0	50	ug/L	EPA 6010C	
Nitrate as N	180		1	21	100	10	ug/L	EPA 353.2	
Nitrate/Nitrite as N	180		1	21	100	NE	ug/L	EPA 353.2	
Nitrite as N	8.6	JB	1	5.6	100	1	ug/L	EPA 353.2	J-01
Silver - Total	1.32	JB	1	0.480	10.0	10	ug/L	EPA 6010C	J-01
Sulfate as SO4	47000		1	180	5000	250	ug/L	EPA 300.0	
Total Alkalinity	41000		1	8000	15000	NE	ug/L	EPA 310.2	
Total Organic Carbon	7600		1	320	1000	NE	ug/L	SM18 5310B	
Vanadium - Total	6.65	J	1	0.400	10.0	25	ug/L	EPA 6010C	
Zinc - Total	17.3		1	1.60	10.0	10	ug/L	EPA 6010C	

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ANALYTICAL RESULTS

Description: MW-1
Matrix: Ground Water
Project: Albemarle Closed MNA

Lab Sample ID: C000463-01
Sampled: 01/20/10 14:35
Sampled By: Jonathan Pfohl

Received: 01/22/10 09:15
Work Order: C000463

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	01/23/10 19:33	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	01/23/10 19:33	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	01/23/10 19:33	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	01/23/10 19:33	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	01/23/10 19:33	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	01/23/10 19:33	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	01/23/10 19:33	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/23/10 19:33	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	01/23/10 19:33	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	01/23/10 19:33	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	01/23/10 19:33	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/23/10 19:33	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/23/10 19:33	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	01/23/10 19:33	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	01/23/10 19:33	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/23/10 19:33	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/23/10 19:33	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	01/23/10 19:33	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/23/10 19:33	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	01/23/10 19:33	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	01/23/10 19:33	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	01/23/10 19:33	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	01/23/10 19:33	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	01/23/10 19:33	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/23/10 19:33	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/23/10 19:33	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	01/23/10 19:33	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	01/23/10 19:33	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	01/23/10 19:33	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	01/23/10 19:33	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	01/23/10 19:33	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	01/23/10 19:33	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	01/23/10 19:33	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/23/10 19:33	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	01/23/10 19:33	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	01/23/10 19:33	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	01/23/10 19:33	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/23/10 19:33	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	01/23/10 19:33	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	01/23/10 19:33	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/23/10 19:33	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	01/23/10 19:33	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/23/10 19:33	JKG	

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Description:	MW-1	**Lab Sample ID:**	C000463-01	**Received:**	01/22/10 09:15
Matrix:	Ground Water	**Sampled:**	01/20/10 14:35	**Work Order:**	C000463
Project:	Albemarle Closed MNA	**Sampled By:**	Jonathan Pfohl		

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	01/23/10 19:33	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	01/23/10 19:33	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	01/23/10 19:33	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	01/23/10 19:33	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*51*	*1*	*50.0*	*102 %*	*51-122*	*0A23001*	*EPA 8260B*	*01/23/10 19:33*	*JKG*	
Dibromofluoromethane	*48*	*1*	*50.0*	*96 %*	*68-117*	*0A23001*	*EPA 8260B*	*01/23/10 19:33*	*JKG*	
Toluene-d8	*50*	*1*	*50.0*	*100 %*	*69-110*	*0A23001*	*EPA 8260B*	*01/23/10 19:33*	*JKG*	

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Description: MW-1
Matrix: Ground Water
Project: Albemarle Closed MNA

Lab Sample ID: C000463-01
Sampled: 01/20/10 14:35
Sampled By: Jonathan Pfohl

Received: 01/22/10 09:15
Work Order: C000463

Metals (total recoverable) 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] ^	**0.118**	J	ug/L	1	0.0730	2.00	6	EPA 6020A	01/27/10 10:47	VLO	
Arsenic [7440-38-2] ^	3.90	U	ug/L	1	3.90	10.0	10	EPA 6010C	02/02/10 11:37	JDH	
Barium [7440-39-3] ^	**38.3**	J	ug/L	1	0.250	10.0	100	EPA 6010C	02/02/10 11:37	JDH	
Beryllium [7440-41-7] ^	**0.193**	J	ug/L	1	0.0860	1.00	1	EPA 6010C	02/02/10 11:37	JDH	
Cadmium [7440-43-9] ^	**0.404**	J	ug/L	1	0.130	1.00	1	EPA 6010C	02/02/10 11:37	JDH	
Chromium [7440-47-3] ^	**1.77**	J	ug/L	1	1.70	10.0	10	EPA 6010C	02/02/10 11:37	JDH	
Cobalt [7440-48-4] ^	**3.87**	J	ug/L	1	0.410	10.0	10	EPA 6010C	02/02/10 11:37	JDH	
Copper [7440-50-8] ^	**5.32**	J	ug/L	1	1.90	10.0	10	EPA 6010C	02/02/10 11:37	JDH	
Iron [7439-89-6] ^	**2740**		ug/L	1	8.10	50.0	300	EPA 6010C	02/02/10 11:37	JDH	
Lead [7439-92-1] ^	**4.21**	J	ug/L	1	1.10	10.0	10	EPA 6010C	02/02/10 11:37	JDH	
Nickel [7440-02-0] ^	**2.60**	J	ug/L	1	1.60	10.0	50	EPA 6010C	02/02/10 11:37	JDH	
Selenium [7782-49-2] ^	4.40	U	ug/L	1	4.40	10.0	10	EPA 6010C	02/02/10 11:37	JDH	
Silver [7440-22-4] ^	**0.999**	JB	ug/L	1	0.480	10.0	10	EPA 6010C	02/02/10 11:37	JDH	J-01
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	01/27/10 10:47	VLO	
Vanadium [7440-62-2] ^	**2.71**	J	ug/L	1	0.400	10.0	25	EPA 6010C	02/02/10 11:37	JDH	
Zinc [7440-66-6] ^	**82.6**		ug/L	1	1.60	10.0	10	EPA 6010C	02/02/10 11:37	JDH	

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Description: MW-1
Matrix: Ground Water
Project: Albemarle Closed MNA

Lab Sample ID: C000463-01
Sampled: 01/20/10 14:35
Sampled By: Jonathan Pfohl

Received: 01/22/10 09:15
Work Order: C000463

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2000	U	ug/L	1	2000	2000	NE	SM 5210B	01/22/10 11:57	JOC	B-04
Chemical Oxygen Demand [ECL-0035] ^	**18000**		ug/L	1	2800	10000	NE	SM 5220D	01/29/10 13:40	PEV	
Chloride [16887-00-6] ^	**3700**	J	ug/L	1	18	5000	NE	EPA 300.0	02/01/10 21:55	PEV	
Nitrate as N [14797-55-8] ^	**60**	J	ug/L	1	21	100	10	EPA 353.2	02/02/10 11:22	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**70**	J	ug/L	1	21	100	NE	EPA 353.2	02/01/10 13:40	PEV	
Nitrite as N [14797-65-0] ^	**10**	JB	ug/L	1	5.6	100	1	EPA 353.2	01/22/10 12:42	AJB	J-01
Sulfate as SO4 [14808-79-8] ^	**7300**		ug/L	1	180	5000	250	EPA 300.0	02/01/10 21:55	PEV	
Sulfide [18496-25-8] ^	31	U	ug/L	1	31	100	1	SM18 4500-S D	01/26/10 11:44	AJB	
Total Alkalinity [471-34-1] ^	8000	U	ug/L	1	8000	15000	NE	EPA 310.2	01/26/10 09:11	PEV	

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Description:	MW-1	**Lab Sample ID:**	C000463-01	**Received:**	01/22/10 09:15
Matrix:	Ground Water	**Sampled:**	01/20/10 14:35	**Work Order:**	C000463
Project:	Albemarle Closed MNA	**Sampled By:**	Jonathan Pfohl		

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165] ^	**9300**		ug/L	1	320	1000	NE	SM18 5310B	01/27/10 13:01	RSA	

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

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Description: MW-2
Matrix: Ground Water
Project: Albemarle Closed MNA

Lab Sample ID: C000463-02
Sampled: 01/21/10 10:10
Sampled By: Jonathan Pfohl

Received: 01/22/10 09:15
Work Order: C000463

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	01/23/10 20:03	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	01/23/10 20:03	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	01/23/10 20:03	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	01/23/10 20:03	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	01/23/10 20:03	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	01/23/10 20:03	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	01/23/10 20:03	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/23/10 20:03	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	01/23/10 20:03	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	01/23/10 20:03	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	01/23/10 20:03	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/23/10 20:03	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/23/10 20:03	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	01/23/10 20:03	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	01/23/10 20:03	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/23/10 20:03	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/23/10 20:03	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	01/23/10 20:03	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/23/10 20:03	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	01/23/10 20:03	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	01/23/10 20:03	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	01/23/10 20:03	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	01/23/10 20:03	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	01/23/10 20:03	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/23/10 20:03	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/23/10 20:03	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	01/23/10 20:03	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	01/23/10 20:03	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	01/23/10 20:03	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	01/23/10 20:03	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	01/23/10 20:03	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	01/23/10 20:03	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	01/23/10 20:03	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	01/23/10 20:03	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	01/23/10 20:03	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	01/23/10 20:03	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	01/23/10 20:03	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/23/10 20:03	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	01/23/10 20:03	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	01/23/10 20:03	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/23/10 20:03	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	01/23/10 20:03	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/23/10 20:03	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	01/23/10 20:03	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	01/23/10 20:03	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	01/23/10 20:03	JKG	

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Description:	MW-2	**Lab Sample ID:**	C000463-02	**Received:**	01/22/10 09:15
Matrix:	Ground Water	**Sampled:**	01/21/10 10:10	**Work Order:**	C000463
Project:	Albemarle Closed MNA	**Sampled By:**	Jonathan Pfohl		

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	01/23/10 20:03	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*104 %*	*51-122*	*0A23001*	*EPA 8260B*	*01/23/10 20:03*	*JKG*	
Dibromofluoromethane	*52*	*1*	*50.0*	*105 %*	*68-117*	*0A23001*	*EPA 8260B*	*01/23/10 20:03*	*JKG*	
Toluene-d8	*52*	*1*	*50.0*	*104 %*	*69-110*	*0A23001*	*EPA 8260B*	*01/23/10 20:03*	*JKG*	

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Description: MW-2
Matrix: Ground Water
Project: Albemarle Closed MNA

Lab Sample ID: C000463-02
Sampled: 01/21/10 10:10
Sampled By: Jonathan Pfohl

Received: 01/22/10 09:15
Work Order: C000463

Metals (total recoverable) 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] ^	**0.204**	J	ug/L	1	0.0730	2.00	6	EPA 6020A	01/27/10 10:51	VLO	
Arsenic [7440-38-2] ^	**7.76**	J	ug/L	1	3.90	10.0	10	EPA 6010C	02/02/10 11:40	JDH	
Barium [7440-39-3] ^	**25.2**	J	ug/L	1	0.250	10.0	100	EPA 6010C	02/02/10 11:40	JDH	
Beryllium [7440-41-7] ^	**0.221**	J	ug/L	1	0.0860	1.00	1	EPA 6010C	02/02/10 11:40	JDH	
Cadmium [7440-43-9] ^	**0.146**	J	ug/L	1	0.130	1.00	1	EPA 6010C	02/02/10 11:40	JDH	
Chromium [7440-47-3] ^	**2.42**	J	ug/L	1	1.70	10.0	10	EPA 6010C	02/02/10 11:40	JDH	
Cobalt [7440-48-4] ^	**48.9**		ug/L	1	0.410	10.0	10	EPA 6010C	02/02/10 11:40	JDH	
Copper [7440-50-8] ^	**7.67**	J	ug/L	1	1.90	10.0	10	EPA 6010C	02/02/10 11:40	JDH	
Iron [7439-89-6] ^	**8800**		ug/L	1	8.10	50.0	300	EPA 6010C	02/02/10 11:40	JDH	
Lead [7439-92-1] ^	**7.31**	J	ug/L	1	1.10	10.0	10	EPA 6010C	02/02/10 11:40	JDH	
Nickel [7440-02-0] ^	**29.7**	J	ug/L	1	1.60	10.0	50	EPA 6010C	02/02/10 11:40	JDH	
Selenium [7782-49-2] ^	4.40	U	ug/L	1	4.40	10.0	10	EPA 6010C	02/02/10 11:40	JDH	
Silver [7440-22-4] ^	**1.54**	JB	ug/L	1	0.480	10.0	10	EPA 6010C	02/02/10 11:40	JDH	J-01
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	01/27/10 10:51	VLO	
Vanadium [7440-62-2] ^	**1.37**	J	ug/L	1	0.400	10.0	25	EPA 6010C	02/02/10 11:40	JDH	
Zinc [7440-66-6] ^	**26.0**		ug/L	1	1.60	10.0	10	EPA 6010C	02/02/10 11:40	JDH	

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Description: MW-2
Matrix: Ground Water
Project: Albemarle Closed MNA

Lab Sample ID: C000463-02
Sampled: 01/21/10 10:10
Sampled By: Jonathan Pfohl

Received: 01/22/10 09:15
Work Order: C000463

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2000	U	ug/L	1	2000	2000	NE	SM 5210B	01/22/10 11:57	JOC	B-04
Chemical Oxygen Demand [ECL-0035] ^	**55000**		ug/L	1	2800	10000	NE	SM 5220D	01/29/10 13:40	PEV	
Chloride [16887-00-6] ^	**43000**		ug/L	1	18	5000	NE	EPA 300.0	02/01/10 22:11	PEV	
Nitrate as N [14797-55-8] ^	**260**		ug/L	1	21	100	10	EPA 353.2	02/02/10 11:22	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**260**		ug/L	1	21	100	NE	EPA 353.2	02/01/10 13:47	PEV	
Nitrite as N [14797-65-0] ^	**7.9**	JB	ug/L	1	5.6	100	1	EPA 353.2	01/22/10 12:45	AJB	J-01
Sulfate as SO4 [14808-79-8] ^	**60000**		ug/L	1	180	5000	250	EPA 300.0	02/01/10 22:11	PEV	
Sulfide [18496-25-8] ^	31	U	ug/L	1	31	100	1	SM18 4500-S D	01/26/10 11:44	AJB	
Total Alkalinity [471-34-1] ^	**100000**		ug/L	1	8000	15000	NE	EPA 310.2	01/26/10 09:13	PEV	

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Description:	MW-2	**Lab Sample ID:**	C000463-02	**Received:**	01/22/10 09:15
Matrix:	Ground Water	**Sampled:**	01/21/10 10:10	**Work Order:**	C000463
Project:	Albemarle Closed MNA	**Sampled By:**	Jonathan Pfohl		

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165] ^	**12000**		ug/L	1	320	1000	NE	SM18 5310B	01/27/10 13:01	RSA	

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

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Description: MW-3
Matrix: Ground Water
Project: Albemarle Closed MNA

Lab Sample ID: C000463-03
Sampled: 01/20/10 12:25
Sampled By: Jonathan Pfohl

Received: 01/22/10 09:15
Work Order: C000463

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	01/29/10 07:19	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/29/10 07:19	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	01/29/10 07:19	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	01/29/10 07:19	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	01/29/10 07:19	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	01/29/10 07:19	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/29/10 07:19	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/29/10 07:19	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	01/29/10 07:19	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	01/29/10 07:19	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	01/29/10 07:19	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	01/29/10 07:19	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/29/10 07:19	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	01/29/10 07:19	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	01/29/10 07:19	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/29/10 07:19	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/29/10 07:19	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	01/29/10 07:19	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	01/29/10 07:19	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	01/29/10 07:19	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/29/10 07:19	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	01/29/10 07:19	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	01/29/10 07:19	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	01/29/10 07:19	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	01/29/10 07:19	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	01/29/10 07:19	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	01/29/10 07:19	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	01/29/10 07:19	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	01/29/10 07:19	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	01/29/10 07:19	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	01/29/10 07:19	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	01/29/10 07:19	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	01/29/10 07:19	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/29/10 07:19	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	01/29/10 07:19	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	01/29/10 07:19	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	01/29/10 07:19	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	01/29/10 07:19	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	01/29/10 07:19	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	01/29/10 07:19	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	01/29/10 07:19	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	01/29/10 07:19	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/29/10 07:19	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/29/10 07:19	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	01/29/10 07:19	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	01/29/10 07:19	JKG	

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Description:	MW-3	**Lab Sample ID:**	C000463-03	**Received:**	01/22/10 09:15
Matrix:	Ground Water	**Sampled:**	01/20/10 12:25	**Work Order:**	C000463
Project:	Albemarle Closed MNA	**Sampled By:**	Jonathan Pfohl		

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	01/29/10 07:19	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*51-122*	*0A28034*	*EPA 8260B*	*01/29/10 07:19*	*JKG*	
Dibromofluoromethane	*52*	*1*	*50.0*	*104 %*	*68-117*	*0A28034*	*EPA 8260B*	*01/29/10 07:19*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*96 %*	*69-110*	*0A28034*	*EPA 8260B*	*01/29/10 07:19*	*JKG*	

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Description: MW-3
Matrix: Ground Water
Project: Albemarle Closed MNA

Lab Sample ID: C000463-03
Sampled: 01/20/10 12:25
Sampled By: Jonathan Pfohl

Received: 01/22/10 09:15
Work Order: C000463

Metals (total recoverable) 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] ^	**0.583**	J	ug/L	1	0.0730	2.00	6	EPA 6020A	01/27/10 10:54	VLO	
Arsenic [7440-38-2] ^	**17.9**		ug/L	1	3.90	10.0	10	EPA 6010C	02/02/10 11:42	JDH	
Barium [7440-39-3] ^	**65.9**	J	ug/L	1	0.250	10.0	100	EPA 6010C	02/02/10 11:42	JDH	
Beryllium [7440-41-7] ^	0.0860	U	ug/L	1	0.0860	1.00	1	EPA 6010C	02/02/10 11:42	JDH	
Cadmium [7440-43-9] ^	**0.456**	J	ug/L	1	0.130	1.00	1	EPA 6010C	02/02/10 11:42	JDH	
Chromium [7440-47-3] ^	**6.56**	J	ug/L	1	1.70	10.0	10	EPA 6010C	02/02/10 11:42	JDH	
Cobalt [7440-48-4] ^	**28.3**		ug/L	1	0.410	10.0	10	EPA 6010C	02/02/10 11:42	JDH	
Copper [7440-50-8] ^	**12.2**		ug/L	1	1.90	10.0	10	EPA 6010C	02/02/10 11:42	JDH	
Iron [7439-89-6] ^	**2960**		ug/L	1	8.10	50.0	300	EPA 6010C	02/02/10 11:42	JDH	
Lead [7439-92-1] ^	**4.11**	J	ug/L	1	1.10	10.0	10	EPA 6010C	02/02/10 11:42	JDH	
Nickel [7440-02-0] ^	**5.54**	J	ug/L	1	1.60	10.0	50	EPA 6010C	02/02/10 11:42	JDH	
Selenium [7782-49-2] ^	4.40	U	ug/L	1	4.40	10.0	10	EPA 6010C	02/02/10 11:42	JDH	
Silver [7440-22-4] ^	**1.95**	JB	ug/L	1	0.480	10.0	10	EPA 6010C	02/02/10 11:42	JDH	J-01
Thallium [7440-28-0] ^	**0.148**	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	01/27/10 10:54	VLO	
Vanadium [7440-62-2] ^	**7.69**	J	ug/L	1	0.400	10.0	25	EPA 6010C	02/02/10 11:42	JDH	
Zinc [7440-66-6] ^	**5.68**	J	ug/L	1	1.60	10.0	10	EPA 6010C	02/02/10 11:42	JDH	

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Description:	MW-3	**Lab Sample ID:**	C000463-03	**Received:**	01/22/10 09:15
Matrix:	Ground Water	**Sampled:**	01/20/10 12:25	**Work Order:**	C000463
Project:	Albemarle Closed MNA	**Sampled By:**	Jonathan Pfohl		

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	**8200**		ug/L	1	2000	2000	NE	SM 5210B	01/22/10 11:57	JOC	B-04
Chemical Oxygen Demand [ECL-0035] ^	**61000**		ug/L	1	2800	10000	NE	SM 5220D	01/29/10 13:40	PEV	
Chloride [16887-00-6] ^	**34000**		ug/L	1	18	5000	NE	EPA 300.0	02/01/10 22:28	PEV	
Nitrate as N [14797-55-8] ^	**2100**		ug/L	1	21	100	10	EPA 353.2	02/02/10 11:22	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**2200**		ug/L	1	21	100	NE	EPA 353.2	02/01/10 13:53	PEV	
Nitrite as N [14797-65-0] ^	**23**	JB	ug/L	1	5.6	100	1	EPA 353.2	01/22/10 12:40	AJB	J-01, Q
Sulfate as SO4 [14808-79-8] ^	**150000**	D	ug/L	2	360	10000	250	EPA 300.0	02/02/10 10:11	PEV	
Sulfide [18496-25-8] ^	31	U	ug/L	1	31	100	1	SM18 4500-S D	01/26/10 11:44	AJB	
Total Alkalinity [471-34-1] ^	**180000**		ug/L	1	8000	15000	NE	EPA 310.2	01/26/10 09:14	PEV	

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Description:	MW-3	**Lab Sample ID:**	C000463-03	**Received:**	01/22/10 09:15
Matrix:	Ground Water	**Sampled:**	01/20/10 12:25	**Work Order:**	C000463
Project:	Albemarle Closed MNA	**Sampled By:**	Jonathan Pfohl		

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165] ^	**21000**		ug/L	1	320	1000	NE	SM18 5310B	01/27/10 13:01	RSA	

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

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Description: MW-6
Matrix: Ground Water
Project: Albemarle Closed MNA

Lab Sample ID: C000463-04
Sampled: 01/21/10 13:40
Sampled By: Jonathan Pfohl

Received: 01/22/10 09:15
Work Order: C000463

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	01/31/10 11:28	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/31/10 11:28	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	01/31/10 11:28	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	01/31/10 11:28	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	01/31/10 11:28	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	01/31/10 11:28	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/31/10 11:28	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/31/10 11:28	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	01/31/10 11:28	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	01/31/10 11:28	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	01/31/10 11:28	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	01/31/10 11:28	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/31/10 11:28	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	01/31/10 11:28	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	01/31/10 11:28	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/31/10 11:28	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/31/10 11:28	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	01/31/10 11:28	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	01/31/10 11:28	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	01/31/10 11:28	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/31/10 11:28	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	01/31/10 11:28	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	01/31/10 11:28	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	01/31/10 11:28	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	01/31/10 11:28	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	01/31/10 11:28	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	01/31/10 11:28	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	01/31/10 11:28	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	01/31/10 11:28	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	01/31/10 11:28	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	01/31/10 11:28	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	01/31/10 11:28	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	01/31/10 11:28	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/31/10 11:28	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	01/31/10 11:28	JKG	
Methylene chloride [75-09-2] ^	**0.95**	J	ug/L	1	0.070	1.0	1	EPA 8260B	01/31/10 11:28	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	01/31/10 11:28	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	01/31/10 11:28	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	01/31/10 11:28	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	01/31/10 11:28	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	01/31/10 11:28	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	01/31/10 11:28	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/31/10 11:28	JKG	
Trichlorofluoromethane [75-69-4] ^	**1.5**		ug/L	1	0.15	1.0	1	EPA 8260B	01/31/10 11:28	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	01/31/10 11:28	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	01/31/10 11:28	JKG	

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Description:	MW-6	**Lab Sample ID:**	C000463-04	**Received:**	01/22/10 09:15
Matrix:	Ground Water	**Sampled:**	01/21/10 13:40	**Work Order:**	C000463
Project:	Albemarle Closed MNA	**Sampled By:**	Jonathan Pfohl		

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	01/31/10 11:28	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*96 %*	*51-122*	*0A29019*	*EPA 8260B*	*01/31/10 11:28*	*JKG*	
Dibromofluoromethane	*53*	*1*	*50.0*	*106 %*	*68-117*	*0A29019*	*EPA 8260B*	*01/31/10 11:28*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*98 %*	*69-110*	*0A29019*	*EPA 8260B*	*01/31/10 11:28*	*JKG*	

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Description: MW-6
Matrix: Ground Water
Project: Albemarle Closed MNA

Lab Sample ID: C000463-04
Sampled: 01/21/10 13:40
Sampled By: Jonathan Pfohl

Received: 01/22/10 09:15
Work Order: C000463

Metals (total recoverable) 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] ^	**0.244**	J	ug/L	1	0.0730	2.00	6	EPA 6020A	01/27/10 10:58	VLO	
Arsenic [7440-38-2] ^	3.90	U	ug/L	1	3.90	10.0	10	EPA 6010C	02/02/10 11:53	JDH	
Barium [7440-39-3] ^	**3.24**	J	ug/L	1	0.250	10.0	100	EPA 6010C	02/02/10 11:53	JDH	
Beryllium [7440-41-7] ^	**0.157**	J	ug/L	1	0.0860	1.00	1	EPA 6010C	02/02/10 11:53	JDH	
Cadmium [7440-43-9] ^	**0.547**	J	ug/L	1	0.130	1.00	1	EPA 6010C	02/02/10 11:53	JDH	
Chromium [7440-47-3] ^	**2.43**	J	ug/L	1	1.70	10.0	10	EPA 6010C	02/02/10 11:53	JDH	
Cobalt [7440-48-4] ^	**1.26**	J	ug/L	1	0.410	10.0	10	EPA 6010C	02/02/10 11:53	JDH	
Copper [7440-50-8] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	02/02/10 11:53	JDH	
Iron [7439-89-6] ^	**1260**		ug/L	1	8.10	50.0	300	EPA 6010C	02/02/10 11:53	JDH	
Lead [7439-92-1] ^	**3.01**	J	ug/L	1	1.10	10.0	10	EPA 6010C	02/02/10 11:53	JDH	
Nickel [7440-02-0] ^	**1.94**	J	ug/L	1	1.60	10.0	50	EPA 6010C	02/02/10 11:53	JDH	
Selenium [7782-49-2] ^	4.40	U	ug/L	1	4.40	10.0	10	EPA 6010C	02/02/10 11:53	JDH	
Silver [7440-22-4] ^	**1.63**	JB	ug/L	1	0.480	10.0	10	EPA 6010C	02/02/10 11:53	JDH	J-01
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	01/27/10 10:58	VLO	
Vanadium [7440-62-2] ^	**1.85**	J	ug/L	1	0.400	10.0	25	EPA 6010C	02/02/10 11:53	JDH	
Zinc [7440-66-6] ^	**10.8**		ug/L	1	1.60	10.0	10	EPA 6010C	02/02/10 11:53	JDH	

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Description: MW-6
Matrix: Ground Water
Project: Albemarle Closed MNA

Lab Sample ID: C000463-04
Sampled: 01/21/10 13:40
Sampled By: Jonathan Pfohl

Received: 01/22/10 09:15
Work Order: C000463

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2000	U	ug/L	1	2000	2000	NE	SM 5210B	01/22/10 11:57	JOC	B-04
Chemical Oxygen Demand [ECL-0035] ^	**25000**		ug/L	1	2800	10000	NE	SM 5220D	01/29/10 13:40	PEV	
Chloride [16887-00-6] ^	**6400**		ug/L	1	18	5000	NE	EPA 300.0	02/01/10 22:45	PEV	
Nitrate as N [14797-55-8] ^	**14000**		ug/L	1	21	100	10	EPA 353.2	02/02/10 11:22	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**14000**	D	ug/L	10	210	1000	NE	EPA 353.2	02/01/10 15:24	AJB	
Nitrite as N [14797-65-0] ^	**7.3**	JB	ug/L	1	5.6	100	1	EPA 353.2	01/22/10 12:47	AJB	J-01
Sulfate as SO4 [14808-79-8] ^	**31000**		ug/L	1	180	5000	250	EPA 300.0	02/01/10 22:45	PEV	
Sulfide [18496-25-8] ^	31	U	ug/L	1	31	100	1	SM18 4500-S D	01/26/10 11:44	AJB	
Total Alkalinity [471-34-1] ^	**13000**	J	ug/L	1	8000	15000	NE	EPA 310.2	01/26/10 09:15	PEV	

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Description:	MW-6	**Lab Sample ID:**	C000463-04	**Received:**	01/22/10 09:15
Matrix:	Ground Water	**Sampled:**	01/21/10 13:40	**Work Order:**	C000463
Project:	Albemarle Closed MNA	**Sampled By:**	Jonathan Pfohl		

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165] ^	**6300**		ug/L	1	320	1000	NE	SM18 5310B	01/27/10 13:01	RSA	

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

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Description: MW-7
Matrix: Ground Water
Project: Albemarle Closed MNA

Lab Sample ID: C000463-05
Sampled: 01/21/10 15:20
Sampled By: Jonathan Pfohl

Received: 01/22/10 09:15
Work Order: C000463

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	01/31/10 11:57	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/31/10 11:57	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	01/31/10 11:57	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	01/31/10 11:57	JKG	
1,1-Dichloroethane [75-34-3] ^	**3.4**	J	ug/L	1	0.050	1.0	5	EPA 8260B	01/31/10 11:57	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	01/31/10 11:57	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/31/10 11:57	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/31/10 11:57	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	01/31/10 11:57	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	01/31/10 11:57	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	01/31/10 11:57	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	01/31/10 11:57	JKG	
1,4-Dichlorobenzene [106-46-7] ^	**1.9**		ug/L	1	0.10	1.0	1	EPA 8260B	01/31/10 11:57	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	01/31/10 11:57	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	01/31/10 11:57	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/31/10 11:57	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/31/10 11:57	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	01/31/10 11:57	JKG	
Benzene [71-43-2] ^	**2.5**		ug/L	1	0.050	1.0	1	EPA 8260B	01/31/10 11:57	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	01/31/10 11:57	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/31/10 11:57	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	01/31/10 11:57	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	01/31/10 11:57	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	01/31/10 11:57	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	01/31/10 11:57	JKG	
Chlorobenzene [108-90-7] ^	**5.4**		ug/L	1	0.069	1.0	3	EPA 8260B	01/31/10 11:57	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	01/31/10 11:57	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	01/31/10 11:57	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	01/31/10 11:57	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	**1.4**	J	ug/L	1	0.075	1.0	5	EPA 8260B	01/31/10 11:57	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	01/31/10 11:57	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	01/31/10 11:57	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	01/31/10 11:57	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/31/10 11:57	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	01/31/10 11:57	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	01/31/10 11:57	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	01/31/10 11:57	JKG	
Tetrachloroethene [127-18-4] ^	**0.54**	J	ug/L	1	0.099	1.0	1	EPA 8260B	01/31/10 11:57	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	01/31/10 11:57	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	01/31/10 11:57	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	01/31/10 11:57	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	01/31/10 11:57	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/31/10 11:57	JKG	
Trichlorofluoromethane [75-69-4] ^	**0.44**	J	ug/L	1	0.15	1.0	1	EPA 8260B	01/31/10 11:57	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	01/31/10 11:57	JKG	
Vinyl chloride [75-01-4] ^	**0.45**	J	ug/L	1	0.083	1.0	1	EPA 8260B	01/31/10 11:57	JKG	

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Description:	MW-7	**Lab Sample ID:**	C000463-05	**Received:**	01/22/10 09:15
Matrix:	Ground Water	**Sampled:**	01/21/10 15:20	**Work Order:**	C000463
Project:	Albemarle Closed MNA	**Sampled By:**	Jonathan Pfohl		

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	01/31/10 11:57	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*96 %*	*51-122*	*0A29019*	*EPA 8260B*	*01/31/10 11:57*	*JKG*	
Dibromofluoromethane	*51*	*1*	*50.0*	*102 %*	*68-117*	*0A29019*	*EPA 8260B*	*01/31/10 11:57*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*95 %*	*69-110*	*0A29019*	*EPA 8260B*	*01/31/10 11:57*	*JKG*	

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Description: MW-7
Matrix: Ground Water
Project: Albemarle Closed MNA

Lab Sample ID: C000463-05
Sampled: 01/21/10 15:20
Sampled By: Jonathan Pfohl

Received: 01/22/10 09:15
Work Order: C000463

Metals (total recoverable) 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] ^	**0.219**	J	ug/L	1	0.0730	2.00	6	EPA 6020A	01/27/10 11:02	VLO	
Arsenic [7440-38-2] ^	3.90	U	ug/L	1	3.90	10.0	10	EPA 6010C	02/02/10 11:57	JDH	
Barium [7440-39-3] ^	**22.4**	J	ug/L	1	0.250	10.0	100	EPA 6010C	02/02/10 11:57	JDH	
Beryllium [7440-41-7] ^	0.0860	U	ug/L	1	0.0860	1.00	1	EPA 6010C	02/02/10 11:57	JDH	
Cadmium [7440-43-9] ^	**1.21**		ug/L	1	0.130	1.00	1	EPA 6010C	02/02/10 11:57	JDH	
Chromium [7440-47-3] ^	1.70	U	ug/L	1	1.70	10.0	10	EPA 6010C	02/02/10 11:57	JDH	
Cobalt [7440-48-4] ^	**0.469**	J	ug/L	1	0.410	10.0	10	EPA 6010C	02/02/10 11:57	JDH	
Copper [7440-50-8] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	02/02/10 11:57	JDH	
Iron [7439-89-6] ^	**20.1**	J	ug/L	1	8.10	50.0	300	EPA 6010C	02/02/10 11:57	JDH	
Lead [7439-92-1] ^	**2.77**	J	ug/L	1	1.10	10.0	10	EPA 6010C	02/02/10 11:57	JDH	
Nickel [7440-02-0] ^	**10.6**	J	ug/L	1	1.60	10.0	50	EPA 6010C	02/02/10 11:57	JDH	
Selenium [7782-49-2] ^	4.40	U	ug/L	1	4.40	10.0	10	EPA 6010C	02/02/10 11:57	JDH	
Silver [7440-22-4] ^	**1.42**	JB	ug/L	1	0.480	10.0	10	EPA 6010C	02/02/10 11:57	JDH	J-01
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	01/27/10 11:02	VLO	
Vanadium [7440-62-2] ^	**0.520**	J	ug/L	1	0.400	10.0	25	EPA 6010C	02/02/10 11:57	JDH	
Zinc [7440-66-6] ^	**8.18**	J	ug/L	1	1.60	10.0	10	EPA 6010C	02/02/10 11:57	JDH	

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Description: MW-7
Matrix: Ground Water
Project: Albemarle Closed MNA

Lab Sample ID: C000463-05
Sampled: 01/21/10 15:20
Sampled By: Jonathan Pfohl

Received: 01/22/10 09:15
Work Order: C000463

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2000	U	ug/L	1	2000	2000	NE	SM 5210B	01/22/10 11:57	JOC	B-04
Chemical Oxygen Demand [ECL-0035] ^	**3100**	J	ug/L	1	2800	10000	NE	SM 5220D	01/29/10 13:40	PEV	
Chloride [16887-00-6] ^	**86000**		ug/L	1	18	5000	NE	EPA 300.0	02/01/10 23:01	PEV	
Nitrate as N [14797-55-8] ^	**38**	J	ug/L	1	21	100	10	EPA 353.2	02/02/10 11:22	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**38**	J	ug/L	1	21	100	NE	EPA 353.2	02/01/10 13:58	PEV	
Nitrite as N [14797-65-0] ^	5.6	U	ug/L	1	5.6	100	1	EPA 353.2	01/22/10 12:48	AJB	
Sulfate as SO4 [14808-79-8] ^	**5400**		ug/L	1	180	5000	250	EPA 300.0	02/01/10 23:01	PEV	
Sulfide [18496-25-8] ^	31	U	ug/L	1	31	100	1	SM18 4500-S D	01/26/10 11:44	AJB	
Total Alkalinity [471-34-1] ^	**150000**		ug/L	1	8000	15000	NE	EPA 310.2	01/26/10 09:16	PEV	

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Description:	MW-7	**Lab Sample ID:**	C000463-05	**Received:**	01/22/10 09:15
Matrix:	Ground Water	**Sampled:**	01/21/10 15:20	**Work Order:**	C000463
Project:	Albemarle Closed MNA	**Sampled By:**	Jonathan Pfohl		

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165] ^	**7400**		ug/L	1	320	1000	NE	SM18 5310B	01/27/10 13:01	RSA	

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

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Description: MW-9
Matrix: Ground Water
Project: Albemarle Closed MNA

Lab Sample ID: C000463-06
Sampled: 01/20/10 16:05
Sampled By: Jonathan Pfohl

Received: 01/22/10 09:15
Work Order: C000463

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	01/29/10 07:48	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/29/10 07:48	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	01/29/10 07:48	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	01/29/10 07:48	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	01/29/10 07:48	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	01/29/10 07:48	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/29/10 07:48	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/29/10 07:48	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	01/29/10 07:48	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	01/29/10 07:48	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	01/29/10 07:48	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	01/29/10 07:48	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/29/10 07:48	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	01/29/10 07:48	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	01/29/10 07:48	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/29/10 07:48	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/29/10 07:48	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	01/29/10 07:48	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	01/29/10 07:48	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	01/29/10 07:48	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/29/10 07:48	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	01/29/10 07:48	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	01/29/10 07:48	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	01/29/10 07:48	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	01/29/10 07:48	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	01/29/10 07:48	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	01/29/10 07:48	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	01/29/10 07:48	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	01/29/10 07:48	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	01/29/10 07:48	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	01/29/10 07:48	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	01/29/10 07:48	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	01/29/10 07:48	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/29/10 07:48	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	01/29/10 07:48	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	01/29/10 07:48	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	01/29/10 07:48	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	01/29/10 07:48	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	01/29/10 07:48	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	01/29/10 07:48	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	01/29/10 07:48	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	01/29/10 07:48	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/29/10 07:48	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/29/10 07:48	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	01/29/10 07:48	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	01/29/10 07:48	JKG	

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Description:	MW-9	**Lab Sample ID:**	C000463-06	**Received:**	01/22/10 09:15
Matrix:	Ground Water	**Sampled:**	01/20/10 16:05	**Work Order:**	C000463
Project:	Albemarle Closed MNA	**Sampled By:**	Jonathan Pfohl		

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	01/29/10 07:48	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*94 %*	*51-122*	*0A28034*	*EPA 8260B*	*01/29/10 07:48*	*JKG*	
Dibromofluoromethane	*52*	*1*	*50.0*	*105 %*	*68-117*	*0A28034*	*EPA 8260B*	*01/29/10 07:48*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*98 %*	*69-110*	*0A28034*	*EPA 8260B*	*01/29/10 07:48*	*JKG*	

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Description: MW-9
Matrix: Ground Water
Project: Albemarle Closed MNA

Lab Sample ID: C000463-06
Sampled: 01/20/10 16:05
Sampled By: Jonathan Pfohl

Received: 01/22/10 09:15
Work Order: C000463

Metals (total recoverable) 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] ^	0.0730	U	ug/L	1	0.0730	2.00	6	EPA 6020A	01/27/10 11:13	VLO	
Arsenic [7440-38-2] ^	**7.49**	J	ug/L	1	3.90	10.0	10	EPA 6010C	02/02/10 11:59	JDH	
Barium [7440-39-3] ^	**32.1**	J	ug/L	1	0.250	10.0	100	EPA 6010C	02/02/10 11:59	JDH	
Beryllium [7440-41-7] ^	**0.368**	J	ug/L	1	0.0860	1.00	1	EPA 6010C	02/02/10 11:59	JDH	
Cadmium [7440-43-9] ^	**0.367**	J	ug/L	1	0.130	1.00	1	EPA 6010C	02/02/10 11:59	JDH	
Chromium [7440-47-3] ^	**25.8**		ug/L	1	1.70	10.0	10	EPA 6010C	02/02/10 11:59	JDH	
Cobalt [7440-48-4] ^	**3.53**	J	ug/L	1	0.410	10.0	10	EPA 6010C	02/02/10 11:59	JDH	
Copper [7440-50-8] ^	**9.26**	J	ug/L	1	1.90	10.0	10	EPA 6010C	02/02/10 11:59	JDH	
Iron [7439-89-6] ^	**8450**		ug/L	1	8.10	50.0	300	EPA 6010C	02/02/10 11:59	JDH	
Lead [7439-92-1] ^	**6.12**	J	ug/L	1	1.10	10.0	10	EPA 6010C	02/02/10 11:59	JDH	
Nickel [7440-02-0] ^	**11.9**	J	ug/L	1	1.60	10.0	50	EPA 6010C	02/02/10 11:59	JDH	
Selenium [7782-49-2] ^	4.40	U	ug/L	1	4.40	10.0	10	EPA 6010C	02/02/10 11:59	JDH	
Silver [7440-22-4] ^	**1.68**	JB	ug/L	1	0.480	10.0	10	EPA 6010C	02/02/10 11:59	JDH	J-01
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	01/27/10 11:13	VLO	
Vanadium [7440-62-2] ^	**19.9**	J	ug/L	1	0.400	10.0	25	EPA 6010C	02/02/10 11:59	JDH	
Zinc [7440-66-6] ^	**22.4**		ug/L	1	1.60	10.0	10	EPA 6010C	02/02/10 11:59	JDH	

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Description: MW-9
Matrix: Ground Water
Project: Albemarle Closed MNA

Lab Sample ID: C000463-06
Sampled: 01/20/10 16:05
Sampled By: Jonathan Pfohl

Received: 01/22/10 09:15
Work Order: C000463

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2000	U	ug/L	1	2000	2000	NE	SM 5210B	01/22/10 11:57	JOC	B-04
Chemical Oxygen Demand [ECL-0035] ^	**100000**		ug/L	1	2800	10000	NE	SM 5220D	01/29/10 13:40	PEV	
Chloride [16887-00-6] ^	**44000**		ug/L	1	18	5000	NE	EPA 300.0	02/01/10 23:51	PEV	
Nitrate as N [14797-55-8] ^	**170**		ug/L	1	21	100	10	EPA 353.2	02/02/10 11:22	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**170**		ug/L	1	21	100	NE	EPA 353.2	02/01/10 14:00	PEV	
Nitrite as N [14797-65-0] ^	5.6	U	ug/L	1	5.6	100	1	EPA 353.2	01/22/10 12:44	AJB	
Sulfate as SO4 [14808-79-8] ^	**11000**		ug/L	1	180	5000	250	EPA 300.0	02/01/10 23:51	PEV	
Sulfide [18496-25-8] ^	31	U	ug/L	1	31	100	1	SM18 4500-S D	01/26/10 11:44	AJB	
Total Alkalinity [471-34-1] ^	**30000**		ug/L	1	8000	15000	NE	EPA 310.2	01/26/10 09:17	PEV	

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Description:	MW-9	**Lab Sample ID:**	C000463-06	**Received:**	01/22/10 09:15
Matrix:	Ground Water	**Sampled:**	01/20/10 16:05	**Work Order:**	C000463
Project:	Albemarle Closed MNA	**Sampled By:**	Jonathan Pfohl		

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165] ^	**3900**		ug/L	1	320	1000	NE	SM18 5310B	01/27/10 13:01	RSA	

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

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Description: MW-10
Matrix: Ground Water
Project: Albemarle Closed MNA

Lab Sample ID: C000463-07
Sampled: 01/20/10 13:30
Sampled By: Jonathan Pfohl

Received: 01/22/10 09:15
Work Order: C000463

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	01/29/10 08:16	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/29/10 08:16	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	01/29/10 08:16	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	01/29/10 08:16	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	01/29/10 08:16	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	01/29/10 08:16	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/29/10 08:16	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/29/10 08:16	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	01/29/10 08:16	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	01/29/10 08:16	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	01/29/10 08:16	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	01/29/10 08:16	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/29/10 08:16	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	01/29/10 08:16	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	01/29/10 08:16	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/29/10 08:16	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/29/10 08:16	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	01/29/10 08:16	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	01/29/10 08:16	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	01/29/10 08:16	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/29/10 08:16	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	01/29/10 08:16	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	01/29/10 08:16	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	01/29/10 08:16	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	01/29/10 08:16	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	01/29/10 08:16	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	01/29/10 08:16	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	01/29/10 08:16	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	01/29/10 08:16	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	01/29/10 08:16	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	01/29/10 08:16	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	01/29/10 08:16	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	01/29/10 08:16	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/29/10 08:16	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	01/29/10 08:16	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	01/29/10 08:16	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	01/29/10 08:16	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	01/29/10 08:16	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	01/29/10 08:16	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	01/29/10 08:16	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	01/29/10 08:16	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	01/29/10 08:16	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/29/10 08:16	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/29/10 08:16	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	01/29/10 08:16	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	01/29/10 08:16	JKG	

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Description:	MW-10	**Lab Sample ID:**	C000463-07	**Received:**	01/22/10 09:15
Matrix:	Ground Water	**Sampled:**	01/20/10 13:30	**Work Order:**	C000463
Project:	Albemarle Closed MNA	**Sampled By:**	Jonathan Pfohl		

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	01/29/10 08:16	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*93 %*	*51-122*	*0A28034*	*EPA 8260B*	*01/29/10 08:16*	*JKG*	
Dibromofluoromethane	*51*	*1*	*50.0*	*102 %*	*68-117*	*0A28034*	*EPA 8260B*	*01/29/10 08:16*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*97 %*	*69-110*	*0A28034*	*EPA 8260B*	*01/29/10 08:16*	*JKG*	

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Description: MW-10
Matrix: Ground Water
Project: Albemarle Closed MNA

Lab Sample ID: C000463-07
Sampled: 01/20/10 13:30
Sampled By: Jonathan Pfohl

Received: 01/22/10 09:15
Work Order: C000463

Metals (total recoverable) 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] ^	**0.248**	J	ug/L	1	0.0730	2.00	6	EPA 6020A	01/27/10 11:16	VLO	
Arsenic [7440-38-2] ^	3.90	U	ug/L	1	3.90	10.0	10	EPA 6010C	02/02/10 11:23	JDH	
Barium [7440-39-3] ^	**95.2**	J	ug/L	1	0.250	10.0	100	EPA 6010C	02/02/10 11:23	JDH	
Beryllium [7440-41-7] ^	0.0860	U	ug/L	1	0.0860	1.00	1	EPA 6010C	02/02/10 11:23	JDH	
Cadmium [7440-43-9] ^	**0.270**	J	ug/L	1	0.130	1.00	1	EPA 6010C	02/02/10 11:23	JDH	
Chromium [7440-47-3] ^	**3.08**	J	ug/L	1	1.70	10.0	10	EPA 6010C	02/02/10 11:23	JDH	
Cobalt [7440-48-4] ^	**7.54**	J	ug/L	1	0.410	10.0	10	EPA 6010C	02/02/10 11:23	JDH	
Copper [7440-50-8] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	02/02/10 11:23	JDH	
Iron [7439-89-6] ^	**1330**		ug/L	1	8.10	50.0	300	EPA 6010C	02/02/10 11:23	JDH	
Lead [7439-92-1] ^	**3.51**	J	ug/L	1	1.10	10.0	10	EPA 6010C	02/02/10 11:23	JDH	
Nickel [7440-02-0] ^	**27.6**	J	ug/L	1	1.60	10.0	50	EPA 6010C	02/02/10 11:23	JDH	
Selenium [7782-49-2] ^	4.40	U	ug/L	1	4.40	10.0	10	EPA 6010C	02/02/10 11:23	JDH	
Silver [7440-22-4] ^	**0.758**	JB	ug/L	1	0.480	10.0	10	EPA 6010C	02/02/10 11:23	JDH	J-01
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	01/27/10 11:16	VLO	
Vanadium [7440-62-2] ^	**1.89**	J	ug/L	1	0.400	10.0	25	EPA 6010C	02/02/10 11:23	JDH	
Zinc [7440-66-6] ^	**9.52**	J	ug/L	1	1.60	10.0	10	EPA 6010C	02/02/10 11:23	JDH	

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Description:	MW-10	**Lab Sample ID:**	C000463-07	**Received:**	01/22/10 09:15
Matrix:	Ground Water	**Sampled:**	01/20/10 13:30	**Work Order:**	C000463
Project:	Albemarle Closed MNA	**Sampled By:**	Jonathan Pfohl		

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	**43000**		ug/L	1	2000	2000	NE	SM 5210B	01/22/10 11:57	JOC	B-04
Chemical Oxygen Demand [ECL-0035] ^	**190000**		ug/L	1	2800	10000	NE	SM 5220D	01/29/10 13:40	PEV	
Chloride [16887-00-6] ^	**290000**	D	ug/L	4	72	20000	NE	EPA 300.0	02/02/10 10:28	PEV	
Nitrate as N [14797-55-8] ^	**10000**		ug/L	1	21	100	10	EPA 353.2	02/02/10 11:22	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**10000**	D	ug/L	10	210	1000	NE	EPA 353.2	02/01/10 15:25	AJB	
Nitrite as N [14797-65-0] ^	**190**	B	ug/L	1	5.6	100	1	EPA 353.2	01/22/10 12:41	AJB	QB-01
Sulfate as SO4 [14808-79-8] ^	**8700**		ug/L	1	180	5000	250	EPA 300.0	02/02/10 00:08	PEV	
Sulfide [18496-25-8] ^	31	U	ug/L	1	31	100	1	SM18 4500-S D	01/26/10 11:44	AJB	
Total Alkalinity [471-34-1] ^	**630000**	D	ug/L	5	40000	75000	NE	EPA 310.2	01/26/10 09:44	PEV	

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165] ^	**51000**		ug/L	1	320	1000	NE	SM18 5310B	01/27/10 13:01	RSA	

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

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Description: MW-24
Matrix: Ground Water
Project: Albemarle Closed MNA

Lab Sample ID: C000463-08
Sampled: 01/21/10 11:30
Sampled By: Jonathan Pfohl

Received: 01/22/10 09:15
Work Order: C000463

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	01/30/10 22:04	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/30/10 22:04	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	01/30/10 22:04	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	01/30/10 22:04	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	01/30/10 22:04	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	01/30/10 22:04	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/30/10 22:04	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/30/10 22:04	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	01/30/10 22:04	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	01/30/10 22:04	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	01/30/10 22:04	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	01/30/10 22:04	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/30/10 22:04	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	01/30/10 22:04	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	01/30/10 22:04	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/30/10 22:04	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/30/10 22:04	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	01/30/10 22:04	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	01/30/10 22:04	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	01/30/10 22:04	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/30/10 22:04	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	01/30/10 22:04	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	01/30/10 22:04	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	01/30/10 22:04	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	01/30/10 22:04	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	01/30/10 22:04	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	01/30/10 22:04	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	01/30/10 22:04	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	01/30/10 22:04	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	01/30/10 22:04	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	01/30/10 22:04	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	01/30/10 22:04	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	01/30/10 22:04	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/30/10 22:04	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	01/30/10 22:04	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	01/30/10 22:04	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	01/30/10 22:04	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	01/30/10 22:04	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	01/30/10 22:04	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	01/30/10 22:04	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	01/30/10 22:04	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	01/30/10 22:04	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/30/10 22:04	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/30/10 22:04	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	01/30/10 22:04	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	01/30/10 22:04	JKG	

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Description:	MW-24	**Lab Sample ID:**	C000463-08	**Received:**	01/22/10 09:15
Matrix:	Ground Water	**Sampled:**	01/21/10 11:30	**Work Order:**	C000463
Project:	Albemarle Closed MNA	**Sampled By:**	Jonathan Pfohl		

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	01/30/10 22:04	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*94 %*	*51-122*	*0A29018*	*EPA 8260B*	*01/30/10 22:04*	*JKG*	
Dibromofluoromethane	*51*	*1*	*50.0*	*102 %*	*68-117*	*0A29018*	*EPA 8260B*	*01/30/10 22:04*	*JKG*	
Toluene-d8	*50*	*1*	*50.0*	*99 %*	*69-110*	*0A29018*	*EPA 8260B*	*01/30/10 22:04*	*JKG*	

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Description: MW-24
Matrix: Ground Water
Project: Albemarle Closed MNA

Lab Sample ID: C000463-08
Sampled: 01/21/10 11:30
Sampled By: Jonathan Pfohl

Received: 01/22/10 09:15
Work Order: C000463

Metals (total recoverable) 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] ^	0.0730	U	ug/L	1	0.0730	2.00	6	EPA 6020A	01/27/10 11:20	VLO	
Arsenic [7440-38-2] ^	3.90	U	ug/L	1	3.90	10.0	10	EPA 6010C	02/02/10 12:02	JDH	
Barium [7440-39-3] ^	**15.4**	J	ug/L	1	0.250	10.0	100	EPA 6010C	02/02/10 12:02	JDH	
Beryllium [7440-41-7] ^	**0.136**	J	ug/L	1	0.0860	1.00	1	EPA 6010C	02/02/10 12:02	JDH	
Cadmium [7440-43-9] ^	**0.296**	J	ug/L	1	0.130	1.00	1	EPA 6010C	02/02/10 12:02	JDH	
Chromium [7440-47-3] ^	**3.03**	J	ug/L	1	1.70	10.0	10	EPA 6010C	02/02/10 12:02	JDH	
Cobalt [7440-48-4] ^	**3.50**	J	ug/L	1	0.410	10.0	10	EPA 6010C	02/02/10 12:02	JDH	
Copper [7440-50-8] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	02/02/10 12:02	JDH	
Iron [7439-89-6] ^	**2400**		ug/L	1	8.10	50.0	300	EPA 6010C	02/02/10 12:02	JDH	
Lead [7439-92-1] ^	**2.63**	J	ug/L	1	1.10	10.0	10	EPA 6010C	02/02/10 12:02	JDH	
Nickel [7440-02-0] ^	**2.19**	J	ug/L	1	1.60	10.0	50	EPA 6010C	02/02/10 12:02	JDH	
Selenium [7782-49-2] ^	4.40	U	ug/L	1	4.40	10.0	10	EPA 6010C	02/02/10 12:02	JDH	
Silver [7440-22-4] ^	**1.11**	JB	ug/L	1	0.480	10.0	10	EPA 6010C	02/02/10 12:02	JDH	J-01
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	01/27/10 11:20	VLO	
Vanadium [7440-62-2] ^	**3.55**	J	ug/L	1	0.400	10.0	25	EPA 6010C	02/02/10 12:02	JDH	
Zinc [7440-66-6] ^	**6.74**	J	ug/L	1	1.60	10.0	10	EPA 6010C	02/02/10 12:02	JDH	

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Description: MW-24
Matrix: Ground Water
Project: Albemarle Closed MNA

Lab Sample ID: C000463-08
Sampled: 01/21/10 11:30
Sampled By: Jonathan Pfohl

Received: 01/22/10 09:15
Work Order: C000463

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2000	U	ug/L	1	2000	2000	NE	SM 5210B	01/22/10 11:57	JOC	B-04
Chemical Oxygen Demand [ECL-0035] ^	**5300**	J	ug/L	1	2800	10000	NE	SM 5220D	01/29/10 13:40	PEV	
Chloride [16887-00-6] ^	**35000**		ug/L	1	18	5000	NE	EPA 300.0	02/02/10 00:25	PEV	
Nitrate as N [14797-55-8] ^	**190000**		ug/L	1	21	100	10	EPA 353.2	02/02/10 11:22	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**190000**	D	ug/L	97.5	2000	9800	NE	EPA 353.2	02/01/10 15:52	AJB	
Nitrite as N [14797-65-0] ^	5.6	U	ug/L	1	5.6	100	1	EPA 353.2	01/22/10 12:46	AJB	
Sulfate as SO4 [14808-79-8] ^	**50000**		ug/L	1	180	5000	250	EPA 300.0	02/02/10 00:25	PEV	
Sulfide [18496-25-8] ^	31	U	ug/L	1	31	100	1	SM18 4500-S D	01/26/10 11:44	AJB	
Total Alkalinity [471-34-1] ^	**54000**		ug/L	1	8000	15000	NE	EPA 310.2	01/26/10 09:18	PEV	

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Description:	MW-24	**Lab Sample ID:**	C000463-08	**Received:**	01/22/10 09:15
Matrix:	Ground Water	**Sampled:**	01/21/10 11:30	**Work Order:**	C000463
Project:	Albemarle Closed MNA	**Sampled By:**	Jonathan Pfohl		

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165] ^	**5000**		ug/L	1	320	1000	NE	SM18 5310B	01/27/10 13:01	RSA	

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

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Description: MW-25
Matrix: Ground Water
Project: Albemarle Closed MNA

Lab Sample ID: C000463-09
Sampled: 01/21/10 09:00
Sampled By: Jonathan Pfohl

Received: 01/22/10 09:15
Work Order: C000463

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.091	U	ug/L	1	0.091	1.0	5	EPA 8260B	01/30/10 22:33	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/30/10 22:33	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.085	U	ug/L	1	0.085	1.0	3	EPA 8260B	01/30/10 22:33	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.068	U	ug/L	1	0.068	1.0	1	EPA 8260B	01/30/10 22:33	JKG	
1,1-Dichloroethane [75-34-3] ^	0.050	U	ug/L	1	0.050	1.0	5	EPA 8260B	01/30/10 22:33	JKG	
1,1-Dichloroethene [75-35-4] ^	0.15	U	ug/L	1	0.15	1.0	5	EPA 8260B	01/30/10 22:33	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/30/10 22:33	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	01/30/10 22:33	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	01/30/10 22:33	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.052	U	ug/L	1	0.052	1.0	5	EPA 8260B	01/30/10 22:33	JKG	
1,2-Dichloroethane [107-06-2] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	01/30/10 22:33	JKG	
1,2-Dichloropropane [78-87-5] ^	0.098	U	ug/L	1	0.098	1.0	1	EPA 8260B	01/30/10 22:33	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/30/10 22:33	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	01/30/10 22:33	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	01/30/10 22:33	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	01/30/10 22:33	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	01/30/10 22:33	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	01/30/10 22:33	JKG	
Benzene [71-43-2] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	01/30/10 22:33	JKG	
Bromochloromethane [74-97-5] ^	0.11	U	ug/L	1	0.11	1.0	3	EPA 8260B	01/30/10 22:33	JKG	
Bromodichloromethane [75-27-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/30/10 22:33	JKG	
Bromoform [75-25-2] ^	0.20	U	ug/L	1	0.20	1.0	3	EPA 8260B	01/30/10 22:33	JKG	
Bromomethane [74-83-9] ^	0.28	U	ug/L	1	0.28	1.0	10	EPA 8260B	01/30/10 22:33	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	01/30/10 22:33	JKG	
Carbon tetrachloride [56-23-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	01/30/10 22:33	JKG	
Chlorobenzene [108-90-7] ^	0.069	U	ug/L	1	0.069	1.0	3	EPA 8260B	01/30/10 22:33	JKG	
Chloroethane [75-00-3] ^	0.18	U	ug/L	1	0.18	1.0	10	EPA 8260B	01/30/10 22:33	JKG	
Chloroform [67-66-3] ^	0.083	U	ug/L	1	0.083	1.0	5	EPA 8260B	01/30/10 22:33	JKG	
Chloromethane [74-87-3] ^	0.050	U	ug/L	1	0.050	1.0	1	EPA 8260B	01/30/10 22:33	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.075	U	ug/L	1	0.075	1.0	5	EPA 8260B	01/30/10 22:33	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.073	U	ug/L	1	0.073	1.0	1	EPA 8260B	01/30/10 22:33	JKG	
Dibromochloromethane [124-48-1] ^	0.067	U	ug/L	1	0.067	1.0	3	EPA 8260B	01/30/10 22:33	JKG	
Dibromomethane [74-95-3] ^	0.13	U	ug/L	1	0.13	1.0	10	EPA 8260B	01/30/10 22:33	JKG	
Ethylbenzene [100-41-4] ^	0.10	U	ug/L	1	0.10	1.0	1	EPA 8260B	01/30/10 22:33	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	01/30/10 22:33	JKG	
Methylene chloride [75-09-2] ^	0.070	U	ug/L	1	0.070	1.0	1	EPA 8260B	01/30/10 22:33	JKG	
Styrene [100-42-5] ^	0.082	U	ug/L	1	0.082	1.0	1	EPA 8260B	01/30/10 22:33	JKG	
Tetrachloroethene [127-18-4] ^	0.099	U	ug/L	1	0.099	1.0	1	EPA 8260B	01/30/10 22:33	JKG	
Toluene [108-88-3] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	01/30/10 22:33	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	01/30/10 22:33	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.080	U	ug/L	1	0.080	1.0	1	EPA 8260B	01/30/10 22:33	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	01/30/10 22:33	JKG	
Trichloroethene [79-01-6] ^	0.13	U	ug/L	1	0.13	1.0	1	EPA 8260B	01/30/10 22:33	JKG	
Trichlorofluoromethane [75-69-4] ^	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/30/10 22:33	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	01/30/10 22:33	JKG	
Vinyl chloride [75-01-4] ^	0.083	U	ug/L	1	0.083	1.0	1	EPA 8260B	01/30/10 22:33	JKG	

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Description:	MW-25	**Lab Sample ID:**	C000463-09	**Received:**	01/22/10 09:15
Matrix:	Ground Water	**Sampled:**	01/21/10 09:00	**Work Order:**	C000463
Project:	Albemarle Closed MNA	**Sampled By:**	Jonathan Pfohl		

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.22	U	ug/L	1	0.22	1.0	5	EPA 8260B	01/30/10 22:33	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*93 %*	*51-122*	*0A29018*	*EPA 8260B*	*01/30/10 22:33*	*JKG*	
Dibromofluoromethane	*53*	*1*	*50.0*	*105 %*	*68-117*	*0A29018*	*EPA 8260B*	*01/30/10 22:33*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*98 %*	*69-110*	*0A29018*	*EPA 8260B*	*01/30/10 22:33*	*JKG*	

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Description: MW-25
Matrix: Ground Water
Project: Albemarle Closed MNA

Lab Sample ID: C000463-09
Sampled: 01/21/10 09:00
Sampled By: Jonathan Pfohl

Received: 01/22/10 09:15
Work Order: C000463

Metals (total recoverable) 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] ^	**0.114**	J	ug/L	1	0.0730	2.00	6	EPA 6020A	01/27/10 11:23	VLO	
Arsenic [7440-38-2] ^	**4.34**	J	ug/L	1	3.90	10.0	10	EPA 6010C	02/02/10 12:05	JDH	
Barium [7440-39-3] ^	**13.3**	J	ug/L	1	0.250	10.0	100	EPA 6010C	02/02/10 12:05	JDH	
Beryllium [7440-41-7] ^	**0.157**	J	ug/L	1	0.0860	1.00	1	EPA 6010C	02/02/10 12:05	JDH	
Cadmium [7440-43-9] ^	**0.573**	J	ug/L	1	0.130	1.00	1	EPA 6010C	02/02/10 12:05	JDH	
Chromium [7440-47-3] ^	**4.93**	J	ug/L	1	1.70	10.0	10	EPA 6010C	02/02/10 12:05	JDH	
Cobalt [7440-48-4] ^	**4.13**	J	ug/L	1	0.410	10.0	10	EPA 6010C	02/02/10 12:05	JDH	
Copper [7440-50-8] ^	**5.51**	J	ug/L	1	1.90	10.0	10	EPA 6010C	02/02/10 12:05	JDH	
Iron [7439-89-6] ^	**4670**		ug/L	1	8.10	50.0	300	EPA 6010C	02/02/10 12:05	JDH	
Lead [7439-92-1] ^	**6.22**	J	ug/L	1	1.10	10.0	10	EPA 6010C	02/02/10 12:05	JDH	
Nickel [7440-02-0] ^	**15.2**	J	ug/L	1	1.60	10.0	50	EPA 6010C	02/02/10 12:05	JDH	
Selenium [7782-49-2] ^	4.40	U	ug/L	1	4.40	10.0	10	EPA 6010C	02/02/10 12:05	JDH	
Silver [7440-22-4] ^	**1.32**	JB	ug/L	1	0.480	10.0	10	EPA 6010C	02/02/10 12:05	JDH	J-01
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	01/27/10 11:23	VLO	
Vanadium [7440-62-2] ^	**6.65**	J	ug/L	1	0.400	10.0	25	EPA 6010C	02/02/10 12:05	JDH	
Zinc [7440-66-6] ^	**17.3**		ug/L	1	1.60	10.0	10	EPA 6010C	02/02/10 12:05	JDH	

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Description: MW-25
Matrix: Ground Water
Project: Albemarle Closed MNA

Lab Sample ID: C000463-09
Sampled: 01/21/10 09:00
Sampled By: Jonathan Pfohl

Received: 01/22/10 09:15
Work Order: C000463

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	**2400**		ug/L	1	2000	2000	NE	SM 5210B	01/22/10 11:57	JOC	B-04
Chemical Oxygen Demand [ECL-0035] ^	**14000**		ug/L	1	2800	10000	NE	SM 5220D	01/29/10 13:40	PEV	
Chloride [16887-00-6] ^	**52000**		ug/L	1	18	5000	NE	EPA 300.0	02/02/10 00:41	PEV	
Nitrate as N [14797-55-8] ^	**180**		ug/L	1	21	100	10	EPA 353.2	02/02/10 11:22	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	**180**		ug/L	1	21	100	NE	EPA 353.2	02/01/10 14:06	PEV	
Nitrite as N [14797-65-0] ^	**8.6**	JB	ug/L	1	5.6	100	1	EPA 353.2	01/22/10 12:45	AJB	J-01
Sulfate as SO4 [14808-79-8] ^	**47000**		ug/L	1	180	5000	250	EPA 300.0	02/02/10 00:41	PEV	
Sulfide [18496-25-8] ^	31	U	ug/L	1	31	100	1	SM18 4500-S D	01/26/10 11:44	AJB	
Total Alkalinity [471-34-1] ^	**41000**		ug/L	1	8000	15000	NE	EPA 310.2	01/26/10 09:19	PEV	

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Description:	MW-25	**Lab Sample ID:**	C000463-09	**Received:**	01/22/10 09:15
Matrix:	Ground Water	**Sampled:**	01/21/10 09:00	**Work Order:**	C000463
Project:	Albemarle Closed MNA	**Sampled By:**	Jonathan Pfohl		

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Total Organic Carbon [ECL-0165] ^	**7600**		ug/L	1	320	1000	NE	SM18 5310B	01/27/10 13:01	RSA	

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

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0A23001 - EPA 5030B_MS

Blank (0A23001-BLK1) Prepared: 01/23/2010 07:39 Analyzed: 01/23/2010 10:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Methylene chloride	0.53	U	1.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*94*	*51-122*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0A23001 - EPA 5030B_MS

Blank (0A23001-BLK1) Continued Prepared: 01/23/2010 07:39 Analyzed: 01/23/2010 10:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*91*	*68-117*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*96*	*69-110*			

LCS (0A23001-BS1) Prepared: 01/23/2010 07:39 Analyzed: 01/23/2010 10:42

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	25		1.0	ug/L	20.0		124	75-133			
Benzene	22		1.0	ug/L	20.0		109	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		99	83-117			
Toluene	22		1.0	ug/L	20.0		112	71-118			
Trichloroethene	21		1.0	ug/L	20.0		103	75-115			

Matrix Spike (0A23001-MS1) Prepared: 01/23/2010 07:39 Analyzed: 01/23/2010 11:12

Source: C000854-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	24		1.0	ug/L	20.0	0.15 U	121	75-133			
Benzene	23		1.0	ug/L	20.0	0.050 U	113	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.069 U	105	83-117			
Toluene	22		1.0	ug/L	20.0	0.053 U	111	71-118			
Trichloroethene	21		1.0	ug/L	20.0	0.13 U	106	75-115			

Matrix Spike Dup (0A23001-MSD1) Prepared: 01/23/2010 07:39 Analyzed: 01/23/2010 11:41

Source: C000854-02

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	0.15 U	112	75-133	8	20	
Benzene	21		1.0	ug/L	20.0	0.050 U	104	81-134	8	17	
Chlorobenzene	21		1.0	ug/L	20.0	0.069 U	103	83-117	3	16	
Toluene	22		1.0	ug/L	20.0	0.053 U	108	71-118	2	17	
Trichloroethene	20		1.0	ug/L	20.0	0.13 U	102	75-115	4	18	

Batch 0A28034 - EPA 5030B_MS

Blank (0A28034-BLK1) Prepared: 01/28/2010 14:55 Analyzed: 01/28/2010 22:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.091	U	1.0	ug/L							
1,1,1-Trichloroethane	0.15	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.085	U	1.0	ug/L							
1,1,2-Trichloroethane	0.068	U	1.0	ug/L							
1,1-Dichloroethane	0.050	U	1.0	ug/L							
1,1-Dichloroethene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.15	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.052	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0A28034 - EPA 5030B_MS

Blank (0A28034-BLK1) Continued Prepared: 01/28/2010 14:55 Analyzed: 01/28/2010 22:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dichloroethane	0.082	U	1.0	ug/L							
1,2-Dichloropropane	0.098	U	1.0	ug/L							
1,4-Dichlorobenzene	0.10	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.050	U	1.0	ug/L							
Bromochloromethane	0.11	U	1.0	ug/L							
Bromodichloromethane	0.10	U	1.0	ug/L							
Bromoform	0.20	U	1.0	ug/L							
Bromomethane	0.28	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.082	U	1.0	ug/L							
Chlorobenzene	0.069	U	1.0	ug/L							
Chloroethane	0.18	U	1.0	ug/L							
Chloroform	0.083	U	1.0	ug/L							
Chloromethane	0.050	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.075	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.073	U	1.0	ug/L							
Dibromochloromethane	0.067	U	1.0	ug/L							
Dibromomethane	0.13	U	1.0	ug/L							
Ethylbenzene	0.10	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Methylene chloride	0.070	U	1.0	ug/L							
Styrene	0.082	U	1.0	ug/L							
Tetrachloroethene	0.099	U	1.0	ug/L							
Toluene	0.053	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.11	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.080	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.13	U	1.0	ug/L							
Trichlorofluoromethane	0.15	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.083	U	1.0	ug/L							
Xylenes (Total)	0.22	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*46*			*ug/L*	*50.0*		*91*	*51-122*			
Surrogate: Dibromofluoromethane	*51*			*ug/L*	*50.0*		*103*	*68-117*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*96*	*69-110*			

LCS (0A28034-BS1) Prepared: 01/28/2010 14:55 Analyzed: 01/28/2010 22:42

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0		100	75-133			
Benzene	20		1.0	ug/L	20.0		99	81-134			
Chlorobenzene	18		1.0	ug/L	20.0		92	83-117			
Toluene	20		1.0	ug/L	20.0		98	71-118			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0A28034 - EPA 5030B_MS

LCS (0A28034-BS1) Continued Prepared: 01/28/2010 14:55 Analyzed: 01/28/2010 22:42

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	19		1.0	ug/L	20.0		94	75-115			

Matrix Spike (0A28034-MS1) Prepared: 01/28/2010 14:55 Analyzed: 01/28/2010 23:10

Source: C914573-03

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	0.15 U	112	75-133			
Benzene	21		1.0	ug/L	20.0	0.050 U	106	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.069 U	99	83-117			
Toluene	22		1.0	ug/L	20.0	0.053 U	108	71-118			
Trichloroethene	21		1.0	ug/L	20.0	0.13 U	104	75-115			

Matrix Spike Dup (0A28034-MSD1) Prepared: 01/28/2010 14:55 Analyzed: 01/28/2010 23:39

Source: C914573-03

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	0.15 U	116	75-133	4	20	
Benzene	21		1.0	ug/L	20.0	0.050 U	104	81-134	2	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.069 U	100	83-117	1	16	
Toluene	21		1.0	ug/L	20.0	0.053 U	107	71-118	0.9	17	
Trichloroethene	20		1.0	ug/L	20.0	0.13 U	100	75-115	3	18	

Batch 0A29018 - EPA 5030B_MS

Blank (0A29018-BLK1) Prepared: 01/29/2010 12:30 Analyzed: 01/30/2010 14:54

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.091	U	1.0	ug/L							
1,1,1-Trichloroethane	0.15	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.085	U	1.0	ug/L							
1,1,2-Trichloroethane	0.068	U	1.0	ug/L							
1,1-Dichloroethane	0.050	U	1.0	ug/L							
1,1-Dichloroethene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.15	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.052	U	1.0	ug/L							
1,2-Dichloroethane	0.082	U	1.0	ug/L							
1,2-Dichloropropane	0.098	U	1.0	ug/L							
1,4-Dichlorobenzene	0.10	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.050	U	1.0	ug/L							
Bromochloromethane	0.11	U	1.0	ug/L							
Bromodichloromethane	0.10	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0A29018 - EPA 5030B_MS

Blank (0A29018-BLK1) Continued Prepared: 01/29/2010 12:30 Analyzed: 01/30/2010 14:54

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Bromoform	0.20	U	1.0	ug/L							
Bromomethane	0.28	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.082	U	1.0	ug/L							
Chlorobenzene	0.069	U	1.0	ug/L							
Chloroethane	0.18	U	1.0	ug/L							
Chloroform	0.083	U	1.0	ug/L							
Chloromethane	0.050	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.075	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.073	U	1.0	ug/L							
Dibromochloromethane	0.067	U	1.0	ug/L							
Dibromomethane	0.13	U	1.0	ug/L							
Ethylbenzene	0.10	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Methylene chloride	0.070	U	1.0	ug/L							
Styrene	0.082	U	1.0	ug/L							
Tetrachloroethene	0.099	U	1.0	ug/L							
Toluene	0.053	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.11	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.080	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.13	U	1.0	ug/L							
Trichlorofluoromethane	0.15	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.083	U	1.0	ug/L							
Xylenes (Total)	0.22	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*95*	*51-122*			
Surrogate: Dibromofluoromethane	*51*			*ug/L*	*50.0*		*102*	*68-117*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*94*	*69-110*			

LCS (0A29018-BS1) Prepared: 01/29/2010 12:30 Analyzed: 01/30/2010 15:22

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		105	75-133			
Benzene	20		1.0	ug/L	20.0		98	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		95	83-117			
Toluene	20		1.0	ug/L	20.0		101	71-118			
Trichloroethene	18		1.0	ug/L	20.0		90	75-115			

Matrix Spike (0A29018-MS1) Prepared: 01/29/2010 12:30 Analyzed: 01/30/2010 15:51

Source: C914696-04

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	0.15 U	109	75-133			
Benzene	21		1.0	ug/L	20.0	0.050 U	103	81-134			
Chlorobenzene	23		1.0	ug/L	20.0	3.8	95	83-117			
Toluene	21		1.0	ug/L	20.0	0.053 U	105	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.13 U	99	75-115			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0A29018 - EPA 5030B_MS

Matrix Spike Dup (0A29018-MSD1) Prepared: 01/29/2010 12:30 Analyzed: 01/30/2010 16:19

Source: C914696-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.15 U	97	75-133	11	20	
Benzene	18		1.0	ug/L	20.0	0.050 U	90	81-134	13	17	
Chlorobenzene	21		1.0	ug/L	20.0	3.8	84	83-117	10	16	
Toluene	19		1.0	ug/L	20.0	0.053 U	94	71-118	12	17	
Trichloroethene	17		1.0	ug/L	20.0	0.13 U	85	75-115	15	18	

Batch 0A29019 - EPA 5030B_MS

Blank (0A29019-BLK1) Prepared: 01/29/2010 12:45 Analyzed: 01/31/2010 02:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.091	U	1.0	ug/L							
1,1,1-Trichloroethane	0.15	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.085	U	1.0	ug/L							
1,1,2-Trichloroethane	0.068	U	1.0	ug/L							
1,1-Dichloroethane	0.050	U	1.0	ug/L							
1,1-Dichloroethene	0.15	U	1.0	ug/L							
1,2,3-Trichloropropane	0.15	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.052	U	1.0	ug/L							
1,2-Dichloroethane	0.082	U	1.0	ug/L							
1,2-Dichloropropane	0.098	U	1.0	ug/L							
1,4-Dichlorobenzene	0.10	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.050	U	1.0	ug/L							
Bromochloromethane	0.11	U	1.0	ug/L							
Bromodichloromethane	0.10	U	1.0	ug/L							
Bromoform	0.20	U	1.0	ug/L							
Bromomethane	0.28	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.082	U	1.0	ug/L							
Chlorobenzene	0.069	U	1.0	ug/L							
Chloroethane	0.18	U	1.0	ug/L							
Chloroform	0.083	U	1.0	ug/L							
Chloromethane	0.050	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.075	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.073	U	1.0	ug/L							
Dibromochloromethane	0.067	U	1.0	ug/L							
Dibromomethane	0.13	U	1.0	ug/L							
Ethylbenzene	0.10	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0A29019 - EPA 5030B_MS

Blank (0A29019-BLK1) Continued Prepared: 01/29/2010 12:45 Analyzed: 01/31/2010 02:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methylene chloride	0.070	U	1.0	ug/L							
Styrene	0.082	U	1.0	ug/L							
Tetrachloroethene	0.099	U	1.0	ug/L							
Toluene	0.053	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.11	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.080	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.13	U	1.0	ug/L							
Trichlorofluoromethane	0.15	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.083	U	1.0	ug/L							
Xylenes (Total)	0.22	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*94*	*51-122*			
Surrogate: Dibromofluoromethane	*53*			*ug/L*	*50.0*		*105*	*68-117*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*97*	*69-110*			

LCS (0A29019-BS1) Prepared: 01/29/2010 12:45 Analyzed: 01/31/2010 03:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0		100	75-133			
Benzene	20		1.0	ug/L	20.0		99	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		94	83-117			
Toluene	20		1.0	ug/L	20.0		98	71-118			
Trichloroethene	19		1.0	ug/L	20.0		95	75-115			

Matrix Spike (0A29019-MS1) Prepared: 01/29/2010 12:45 Analyzed: 01/31/2010 03:49

Source: C914713-04

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	0.15 U	112	75-133			
Benzene	20		1.0	ug/L	20.0	0.050 U	101	81-134			
Chlorobenzene	19		1.0	ug/L	20.0	0.069 U	97	83-117			
Toluene	21		1.0	ug/L	20.0	0.053 U	104	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.13 U	100	75-115			

Matrix Spike Dup (0A29019-MSD1) Prepared: 01/29/2010 12:45 Analyzed: 01/31/2010 04:17

Source: C914713-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.15 U	96	75-133	16	20	
Benzene	19		1.0	ug/L	20.0	0.050 U	96	81-134	5	17	
Chlorobenzene	18		1.0	ug/L	20.0	0.069 U	89	83-117	9	16	
Toluene	20		1.0	ug/L	20.0	0.053 U	99	71-118	6	17	
Trichloroethene	19		1.0	ug/L	20.0	0.13 U	93	75-115	7	18	

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 0A25012 - EPA 3005A

Blank (0A25012-BLK1) Prepared: 01/25/2010 10:01 Analyzed: 02/02/2010 11:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	3.90	U	10.0	ug/L							
Barium	0.250	U	10.0	ug/L							
Beryllium	0.0860	U	1.00	ug/L							
Cadmium	0.130	U	1.00	ug/L							
Chromium	1.70	U	10.0	ug/L							
Cobalt	0.410	U	10.0	ug/L							
Copper	1.90	U	10.0	ug/L							
Iron	8.10	U	50.0	ug/L							
Lead	1.10	U	10.0	ug/L							
Nickel	1.60	U	10.0	ug/L							
Selenium	4.40	U	10.0	ug/L							
Silver	**0.823**	**J**	10.0	ug/L							
Vanadium	0.400	U	10.0	ug/L							
Zinc	1.60	U	10.0	ug/L							

LCS (0A25012-BS1) Prepared: 01/25/2010 10:01 Analyzed: 02/02/2010 11:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1070		10.0	ug/L	1000		107	80-120			
Barium	1070		10.0	ug/L	1000		107	80-120			
Beryllium	543		1.00	ug/L	500		109	80-120			
Cadmium	534		1.00	ug/L	500		107	80-120			
Chromium	1070		10.0	ug/L	1000		107	80-120			
Cobalt	1070		10.0	ug/L	1000		107	80-120			
Copper	523		10.0	ug/L	500		105	80-120			
Iron	10700		50.0	ug/L	10000		107	80-120			
Lead	1060		10.0	ug/L	1000		106	80-120			
Nickel	1070		10.0	ug/L	1000		107	80-120			
Selenium	1100		10.0	ug/L	1000		110	80-120			
Silver	103	B	10.0	ug/L	100		103	80-120			
Vanadium	538		10.0	ug/L	500		108	80-120			
Zinc	1090		10.0	ug/L	1000		109	80-120			

Matrix Spike (0A25012-MS1) Prepared: 01/25/2010 10:01 Analyzed: 02/02/2010 11:26

Source: C000463-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1170		10.0	ug/L	1000	3.90 U	117	75-125			
Barium	1270		10.0	ug/L	1000	95.2	118	75-125			
Beryllium	605		1.00	ug/L	500	0.0860 U	121	75-125			
Cadmium	562		1.00	ug/L	500	0.270	112	75-125			
Chromium	1160		10.0	ug/L	1000	3.08	116	75-125			
Cobalt	1160		10.0	ug/L	1000	7.54	115	75-125			
Copper	593		10.0	ug/L	500	1.90 U	119	75-125			
Iron	13200		50.0	ug/L	10000	1330	118	75-125			
Lead	1120		10.0	ug/L	1000	3.51	112	75-125			
Nickel	1150		10.0	ug/L	1000	27.6	112	75-125			
Selenium	1200		10.0	ug/L	1000	4.40 U	120	75-125			

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 0A25012 - EPA 3005A

Matrix Spike (0A25012-MS1) Continued Prepared: 01/25/2010 10:01 Analyzed: 02/02/2010 11:26

Source: C000463-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Silver	114	B	10.0	ug/L	100	0.758	113	75-125			
Vanadium	588		10.0	ug/L	500	1.89	117	75-125			
Zinc	1160		10.0	ug/L	1000	9.52	115	75-125			

Matrix Spike Dup (0A25012-MSD1) Prepared: 01/25/2010 10:01 Analyzed: 02/02/2010 11:29

Source: C000463-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1060		10.0	ug/L	1000	3.90 U	106	75-125	10	20	
Barium	1160		10.0	ug/L	1000	95.2	106	75-125	9	20	
Beryllium	540		1.00	ug/L	500	0.0860 U	108	75-125	11	20	
Cadmium	513		1.00	ug/L	500	0.270	102	75-125	9	20	
Chromium	1050		10.0	ug/L	1000	3.08	105	75-125	9	20	
Cobalt	1050		10.0	ug/L	1000	7.54	104	75-125	9	20	
Copper	536		10.0	ug/L	500	1.90 U	107	75-125	10	20	
Iron	12000		50.0	ug/L	10000	1330	106	75-125	10	20	
Lead	1020		10.0	ug/L	1000	3.51	101	75-125	10	20	
Nickel	1050		10.0	ug/L	1000	27.6	102	75-125	9	20	
Selenium	1090		10.0	ug/L	1000	4.40 U	109	75-125	10	20	
Silver	104	B	10.0	ug/L	100	0.758	103	75-125	9	20	
Vanadium	535		10.0	ug/L	500	1.89	107	75-125	10	20	
Zinc	1060		10.0	ug/L	1000	9.52	105	75-125	9	20	

Post Spike (0A25012-PS1) Prepared: 01/25/2010 10:01 Analyzed: 02/02/2010 11:32

Source: C000463-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1.09		0.0100	mg/L	1.00	-0.00407	109	80-120			
Barium	1.16		0.0100	mg/L	1.00	0.0952	107	80-120			
Beryllium	0.539		0.00100	mg/L	0.500	3.34E-5	108	80-120			
Cadmium	0.516		0.00100	mg/L	0.500	0.000270	103	80-120			
Chromium	1.06		0.0100	mg/L	1.00	0.00308	106	80-120			
Cobalt	1.06		0.0100	mg/L	1.00	0.00754	105	80-120			
Copper	0.540		0.0100	mg/L	0.500	0.000507	108	80-120			
Iron	11.9		0.0500	mg/L	10.0	1.33	106	80-120			
Lead	1.04		0.0100	mg/L	1.00	0.00351	104	80-120			
Nickel	1.05		0.0100	mg/L	1.00	0.0276	103	80-120			
Selenium	1.11		0.0100	mg/L	1.00	-0.00243	112	80-120			
Silver	0.106	B	0.0100	mg/L	0.100	0.000758	105	80-120			
Vanadium	0.539		0.0100	mg/L	0.500	0.00189	107	80-120			
Zinc	1.06		0.0100	mg/L	1.00	0.00952	105	80-120			

Batch 0A25021 - EPA 3005A

Blank (0A25021-BLK1) Prepared: 01/25/2010 11:54 Analyzed: 01/27/2010 10:14

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

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 0A25021 - EPA 3005A

Blank (0A25021-BLK1) Continued Prepared: 01/25/2010 11:54 Analyzed: 01/27/2010 10:14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.0730	U	2.00	ug/L							
Thallium	0.110	U	1.00	ug/L							

LCS (0A25021-BS1) Prepared: 01/25/2010 11:54 Analyzed: 01/27/2010 10:18

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	25.7		2.00	ug/L	25.0		103	80-120			
Thallium	25.5		1.00	ug/L	25.0		102	80-120			

Matrix Spike (0A25021-MS1) Prepared: 01/25/2010 11:54 Analyzed: 01/27/2010 10:33

Source: C000468-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	25.8		2.00	ug/L	25.0	0.0730 U	103	75-125			
Thallium	25.6		1.00	ug/L	25.0	0.110 U	102	75-125			

Matrix Spike Dup (0A25021-MSD1) Prepared: 01/25/2010 11:54 Analyzed: 01/27/2010 10:36

Source: C000468-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	25.6		2.00	ug/L	25.0	0.0730 U	103	75-125	0.6	20	
Thallium	25.5		1.00	ug/L	25.0	0.110 U	102	75-125	0.4	20	

Post Spike (0A25021-PS1) Prepared: 01/25/2010 11:54 Analyzed: 01/27/2010 12:29

Source: C000468-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	25.5		2.00	ug/L	25.0	-0.0170	102	80-120			
Thallium	25.1		1.00	ug/L	25.0	0.0520	100	80-120			

Classical Chemistry Parameters - Quality Control

Batch 0A22013 - NO PREP

Blank (0A22013-BLK1) Prepared: 01/22/2010 10:33 Analyzed: 01/22/2010 12:37

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	**6.8**	**J**	100	ug/L							

LCS (0A22013-BS1) Prepared: 01/22/2010 10:33 Analyzed: 01/22/2010 12:39

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.97	B	0.10	mg/L	1.00		97	80-120			

Matrix Spike (0A22013-MS1) Prepared: 01/22/2010 10:33 Analyzed: 01/22/2010 12:49

Source: C000463-01

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0A22013 - NO PREP

Matrix Spike (0A22013-MS1) Continued Prepared: 01/22/2010 10:33 Analyzed: 01/22/2010 12:49

Source: C000463-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.0	B	0.10	mg/L	1.00	0.010	99	80-120			

Matrix Spike Dup (0A22013-MSD1) Prepared: 01/22/2010 10:33 Analyzed: 01/22/2010 12:50

Source: C000463-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.99	B	0.10	mg/L	1.00	0.010	98	80-120	0.9	25	

Batch 0A22016 - Same

Blank (0A22016-BLK1) Prepared & Analyzed: 01/22/2010 11:57

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	2000	U	2000	ug/L							B-03

LCS (0A22016-BS1) Prepared & Analyzed: 01/22/2010 11:57

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	200		2.0	mg/L	198		102	85-115			B-04

Duplicate (0A22016-DUP1) Prepared & Analyzed: 01/22/2010 11:57

Source: C000289-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	3300		2000	ug/L		3300			0.6	25	B-04

Batch 0A26001 - NO PREP

Blank (0A26001-BLK1) Prepared: 01/26/2010 06:50 Analyzed: 01/26/2010 09:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	8000	U	15000	ug/L							

LCS (0A26001-BS1) Prepared: 01/26/2010 06:50 Analyzed: 01/26/2010 09:04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	100		15	mg/L	100		101	80-120			

Matrix Spike (0A26001-MS1) Prepared: 01/26/2010 06:50 Analyzed: 01/26/2010 09:06

Source: C000257-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	150		15	mg/L	100	41	108	80-120			

Matrix Spike Dup (0A26001-MSD1) Prepared: 01/26/2010 06:50 Analyzed: 01/26/2010 09:07

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0A26001 - NO PREP

Matrix Spike Dup (0A26001-MSD1) Continued Prepared: 01/26/2010 06:50 Analyzed: 01/26/2010 09:07

Source: C000257-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	150		15	mg/L	100	41	107	80-120	0.3	25	

Batch 0A26004 - NO PREP

Blank (0A26004-BLK1) Prepared: 01/26/2010 11:25 Analyzed: 01/26/2010 11:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	31	U	100	ug/L							

LCS (0A26004-BS1) Prepared: 01/26/2010 11:25 Analyzed: 01/26/2010 11:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.37		0.10	mg/L	0.401		93	80-120			

Matrix Spike (0A26004-MS1) Prepared: 01/26/2010 11:25 Analyzed: 01/26/2010 11:44

Source: C000257-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.19		0.10	mg/L	0.401	-0.012	50	80-120			QM-07

Matrix Spike Dup (0A26004-MSD1) Prepared: 01/26/2010 11:25 Analyzed: 01/26/2010 11:44

Source: C000257-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.19		0.10	mg/L	0.401	-0.012	50	80-120	0.3	25	QM-07

Batch 0A26005 - NO PREP

Blank (0A26005-BLK1) Prepared: 01/26/2010 11:25 Analyzed: 01/26/2010 11:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	31	U	100	ug/L							

LCS (0A26005-BS1) Prepared: 01/26/2010 11:25 Analyzed: 01/26/2010 11:44

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.37		0.10	mg/L	0.401		92	80-120			

Matrix Spike (0A26005-MS1) Prepared: 01/26/2010 11:25 Analyzed: 01/26/2010 11:44

Source: C000463-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.010		0.10	mg/L	0.401	-0.011	5	80-120			QM-07, QM-11

Matrix Spike Dup (0A26005-MSD1) Prepared: 01/26/2010 11:25 Analyzed: 01/26/2010 11:44

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0A26005 - NO PREP

Matrix Spike Dup (0A26005-MSD1) Continued Prepared: 01/26/2010 11:25 Analyzed: 01/26/2010 11:44

Source: C000463-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfide	0.007		0.10	mg/L	0.401	-0.011	4	80-120	36	25	QM-07, QM-11

Batch 0A29001 - NO PREP

Blank (0A29001-BLK1) Prepared: 01/29/2010 11:00 Analyzed: 01/29/2010 13:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	2800	U	10000	ug/L							

LCS (0A29001-BS1) Prepared: 01/29/2010 11:00 Analyzed: 01/29/2010 13:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	520000		10000	ug/L	500000		104	90-110			

Matrix Spike (0A29001-MS1) Prepared: 01/29/2010 11:00 Analyzed: 01/29/2010 13:40

Source: C000463-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	530000		10000	ug/L	500000	18000	102	90-110			

Matrix Spike Dup (0A29001-MSD1) Prepared: 01/29/2010 11:00 Analyzed: 01/29/2010 13:40

Source: C000463-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	530000		10000	ug/L	500000	18000	103	90-110	0.8	10	

Batch 0B01004 - NO PREP

Blank (0B01004-BLK1) Prepared: 02/01/2010 06:56 Analyzed: 02/01/2010 18:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	18	U	5000	ug/L							
Sulfate as SO4	180	U	5000	ug/L							

LCS (0B01004-BS1) Prepared: 02/01/2010 06:56 Analyzed: 02/01/2010 19:08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	48		5.0	mg/L	50.0		95	90-110			
Sulfate as SO4	48		5.0	mg/L	50.0		96	90-110			

Matrix Spike (0B01004-MS1) Prepared: 02/01/2010 06:56 Analyzed: 02/01/2010 19:25

Source: C000257-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	55		5.0	mg/L	50.0	7.3	95	80-120			

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0B01004 - NO PREP

Matrix Spike (0B01004-MS1) Continued Prepared: 02/01/2010 06:56 Analyzed: 02/01/2010 19:25

Source: C000257-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	79		5.0	mg/L	50.0	29	102	80-120			

Matrix Spike Dup (0B01004-MSD1) Prepared: 02/01/2010 06:56 Analyzed: 02/01/2010 19:41

Source: C000257-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	55		5.0	mg/L	50.0	7.3	95	80-120	0.5	15	
Sulfate as SO4	80		5.0	mg/L	50.0	29	102	80-120	0.4	15	

Batch 0B01019 - NO PREP

Blank (0B01019-BLK1) Prepared: 02/01/2010 11:06 Analyzed: 02/01/2010 13:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	21	U	100	ug/L							

LCS (0B01019-BS1) Prepared: 02/01/2010 11:06 Analyzed: 02/01/2010 13:38

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.2		0.10	mg/L	1.25		96	80-120			

Matrix Spike (0B01019-MS1) Prepared: 02/01/2010 11:06 Analyzed: 02/01/2010 13:42

Source: C000463-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.4		0.10	mg/L	1.28	0.070	104	80-120			

Matrix Spike Dup (0B01019-MSD1) Prepared: 02/01/2010 11:06 Analyzed: 02/01/2010 13:45

Source: C000463-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.3		0.10	mg/L	1.28	0.070	99	80-120	5	25	

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0A27005 - NO PREP

Blank (0A27005-BLK1) Prepared: 01/27/2010 12:00 Analyzed: 01/27/2010 13:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	320	U	1000	ug/L							

LCS (0A27005-BS1) Prepared: 01/27/2010 12:00 Analyzed: 01/27/2010 13:01

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

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0A27005 - NO PREP

LCS (0A27005-BS1) Continued Prepared: 01/27/2010 12:00 Analyzed: 01/27/2010 13:01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	41000		1000	ug/L	41600		98	85-115			

Matrix Spike (0A27005-MS1) Prepared: 01/27/2010 12:00 Analyzed: 01/27/2010 13:01

Source: A000384-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	50000		1000	ug/L	40000	5700	110	85-115			

Matrix Spike Dup (0A27005-MSD1) Prepared: 01/27/2010 12:00 Analyzed: 01/27/2010 13:01

Source: A000384-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Organic Carbon	50000		1000	ug/L	40000	5700	111	85-115	0.9	21	

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.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
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.
B-03	Blank exceeds the method required oxygen depletion of < 0.2 mg/L.
B-04	The average DO uptake of the seeded controls does not meet the method required 0.6 - 1.0 mg/L.
J-01	Result is estimated due to positive results in the associated method blank.
Q	Analysis performed outside of method - specified holding time.
QB-01	The method blank had a positive result for the analyte; however, the concentration in the method blank is less than 10% of the sample result, which minimizes the impact of the deviation.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-11	Precision between duplicate matrix spikes of the same sample was outside acceptance limits.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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

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

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

Page 1 of 1

Client Name: Municipal Engineering Services (MU001)	Project Number: G10009.0
Address: P.O. Box 97	Project Name/Desc: Albemarle Closed MNA
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

Requested Turnaround Times

Note: Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due __/__/__

Lab Workorder: C000463

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 1	Ag As Ba Cd Co Cr Cu Fe Ni Pb Sb Se Tl V Zn	Alkalinity 310.2 Chloride 300 Nitrite as N 353.2	BOD SM5210B	COD SM5220D	Nitrate Calc 353.2	NOX 353.2	Sulfate 300	Sulfide SM4500-S D	TOC SM5310C	Sample Comments
	MW-1	1/20/10	2:35	Grab	GW	11	X	X	X	X	X	X	X	X	X	X	
	MW-2	1/21/10	10:10		GW	11	X	X	X	X	X	X	X	X	X	X	
	MW-3	1/20/10	12:25		GW	11	X	X	X	X	X	X	X	X	X	X	
	MW-6	1/21/10	1:40		GW	11	X	X	X	X	X	X	X	X	X	X	
	MW-7	1/21/10	3:20		GW	11	X	X	X	X	X	X	X	X	X	X	
	MW-9	1/20/10	4:05		GW	11	X	X	X	X	X	X	X	X	X	X	
	MW-10	1/20/10	1:30		GW	11	X	X	X	X	X	X	X	X	X	X	
	MW-24	1/21/10	11:30		GW	11	X	X	X	X	X	X	X	X	X	X	
	MW-25	1/21/10	9:00		GW	11	X	X	X	X	X	X	X	X	X	X	

<-- Total # of Containers

Sample(s) Prepared By:	Date/Time: 1/15/10 11:20	Relinquished By: MESCO	Date/Time: 1/22/10	Received By: James Hay	Date/Time: 1/22/10 9:15
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: C-74 1.1°C C-530 1.7°C C-724 1.1°C		Condition Upon Receipt: X 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

microseeps
from insight comes solutions

Client Name: Municipal Engineering Services Company
Contact: Jonathan Pfohl
Address: 1140 Benson Hwy.
Suite 200
Garner, NC 27529

Page: Page 1 of 10
Lab Proj #: P1001265
Report Date: 02/08/10
Client Proj Name: Albemarle
Client Proj #: G10009.0

Laboratory Results

Total pages in data package: 13

Lab Sample #	Client Sample ID
P1001265-01	MW-1
P1001265-02	MW-2
P1001265-03	MW-3
P1001265-04	MW-6
P1001265-05	MW-7
P1001265-06	MW-9
P1001265-07	MW-10
P1001265-08	MW-24
P1001265-09	MW-25

Microseeps test results meet all the requirements of the NELAC standards or provide reasons and/or justification if they do not.

Approved By: Debbie Hallo (HH) ***Date:*** 2·8·10

Project Manager: Debbie Hallo

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

As a valued client we would appreciate your comments on our service.
Please call customer service at (412)826-5245 or email customerservice@microseeps.com.

Case Narrative:

Client Name: Municipal Engineering Services Company
Contact: Jonathan Pfohl
Address: 1140 Benson Hwy.
Suite 200
Garner, NC 27529

Lab Proj #: P1001265
Report Date: 02/08/10
Client Proj Name: Albemarle
Client Proj #: G10009.0

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
MW-1	Vapor	P1001265-01	20 Jan. 10 2:35	22 Jan. 10 11:29

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Ethane	<0.010	0.010	ug/L	AM20GAX	2/2/10	sl
N Ethene	<0.010	0.010	ug/L	AM20GAX	2/2/10	sl
N Hydrogen	0.770	0.600	nM	AM20GAX	2/2/10	sl
N Methane	2.800	0.015	ug/L	AM20GAX	2/2/10	sl
SemiVolatiles						
N Acetic Acid	<0.07	0.07	mg/L	AM23G	1/29/10	kb
N Butyric Acid	<0.07	0.07	mg/L	AM23G	1/29/10	kb
N Lactic Acid	<0.1	0.1	mg/L	AM23G	1/29/10	kb
N Propionic Acid	<0.07	0.07	mg/L	AM23G	1/29/10	kb
N Pyruvic Acid	<0.07	0.07	mg/L	AM23G	1/29/10	kb

N - NELAC certified analysis

Client Name: Municipal Engineering Services Company
Contact: Jonathan Pfohl
Address: 1140 Benson Hwy.
Suite 200
Garner, NC 27529

Lab Proj #: P1001265
Report Date: 02/08/10
Client Proj Name: Albemarle
Client Proj #: G10009.0

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
MW-2	Vapor	P1001265-02	21 Jan. 10 10:10	22 Jan. 10 11:29

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Ethane	0.056	0.010	ug/L	AM20GAX	2/2/10	sl
N Ethene	<0.010	0.010	ug/L	AM20GAX	2/2/10	sl
N Hydrogen	0.870	0.600	nM	AM20GAX	2/2/10	sl
N Methane	1100.000	0.015	ug/L	AM20GAX	2/2/10	sl
SemiVolatiles						
N Acetic Acid	<0.07	0.07	mg/L	AM23G	1/29/10	kb
N Butyric Acid	<0.07	0.07	mg/L	AM23G	1/29/10	kb
N Lactic Acid	<0.1	0.1	mg/L	AM23G	1/29/10	kb
N Propionic Acid	<0.07	0.07	mg/L	AM23G	1/29/10	kb
N Pyruvic Acid	<0.07	0.07	mg/L	AM23G	1/29/10	kb

N - NELAC certified analysis

Client Name: Municipal Engineering Services Company
Contact: Jonathan Pfohl
Address: 1140 Benson Hwy.
Suite 200
Garner, NC 27529

Lab Proj #: P1001265
Report Date: 02/08/10
Client Proj Name: Albemarle
Client Proj #: G10009.0

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
MW-3	Vapor	P1001265-03	20 Jan. 10 12:25	22 Jan. 10 11:29

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Ethane	<0.010	0.010	ug/L	AM20GAX	2/2/10	sl
N Ethene	<0.010	0.010	ug/L	AM20GAX	2/2/10	sl
N Hydrogen	1.100	0.600	nM	AM20GAX	2/2/10	sl
N Methane	24.000	0.015	ug/L	AM20GAX	2/2/10	sl
SemiVolatiles						
N Acetic Acid	<0.07	0.07	mg/L	AM23G	1/29/10	kb
N Butyric Acid	<0.07	0.07	mg/L	AM23G	1/29/10	kb
N Lactic Acid	<0.1	0.1	mg/L	AM23G	1/29/10	kb
N Propionic Acid	<0.07	0.07	mg/L	AM23G	1/29/10	kb
N Pyruvic Acid	<0.07	0.07	mg/L	AM23G	1/29/10	kb

N - NELAC certified analysis

Client Name: Municipal Engineering Services Company
Contact: Jonathan Pfohl
Address: 1140 Benson Hwy.
Suite 200
Garner, NC 27529

Lab Proj #: P1001265
Report Date: 02/08/10
Client Proj Name: Albemarle
Client Proj #: G10009.0

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
MW-6	Vapor	P1001265-04	21 Jan. 10 13:40	22 Jan. 10 11:29

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Ethane	<0.010	0.010	ug/L	AM20GAX	2/2/10	sl
N Ethene	<0.010	0.010	ug/L	AM20GAX	2/2/10	sl
N Hydrogen	1.200	0.600	nM	AM20GAX	2/2/10	sl
N Methane	9.500	0.015	ug/L	AM20GAX	2/2/10	sl
SemiVolatiles						
N Acetic Acid	<0.07	0.07	mg/L	AM23G	1/29/10	kb
N Butyric Acid	<0.07	0.07	mg/L	AM23G	1/29/10	kb
N Lactic Acid	0.120	0.1	mg/L	AM23G	1/29/10	kb
N Propionic Acid	<0.07	0.07	mg/L	AM23G	1/29/10	kb
N Pyruvic Acid	0.110	0.07	mg/L	AM23G	1/29/10	kb

N - NELAC certified analysis

Client Name: Municipal Engineering Services Company
Contact: Jonathan Pfohl
Address: 1140 Benson Hwy.
Suite 200
Garner, NC 27529

Lab Proj #: P1001265
Report Date: 02/08/10
Client Proj Name: Albemarle
Client Proj #: G10009.0

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
MW-7	Vapor	P1001265-05	21 Jan. 10 15:20	22 Jan. 10 11:29

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Ethane	0.041	0.010	ug/L	AM20GAX	2/2/10	sl
N Ethene	<0.010	0.010	ug/L	AM20GAX	2/2/10	sl
N Hydrogen	0.940	0.600	nM	AM20GAX	2/2/10	sl
N Methane	360.000	0.015	ug/L	AM20GAX	2/2/10	sl
SemiVolatiles						
N Acetic Acid	<0.07	0.07	mg/L	AM23G	1/29/10	kb
N Butyric Acid	<0.07	0.07	mg/L	AM23G	1/29/10	kb
N Lactic Acid	<0.1	0.1	mg/L	AM23G	1/29/10	kb
N Propionic Acid	<0.07	0.07	mg/L	AM23G	1/29/10	kb
N Pyruvic Acid	0.240	0.07	mg/L	AM23G	1/29/10	kb

N - NELAC certified analysis

Client Name: Municipal Engineering Services Company
Contact: Jonathan Pfohl
Address: 1140 Benson Hwy.
Suite 200
Garner, NC 27529

Lab Proj #: P1001265
Report Date: 02/08/10
Client Proj Name: Albemarle
Client Proj #: G10009.0

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
MW-9	Vapor	P1001265-06	20 Jan. 10 16:05	22 Jan. 10 11:29

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Ethane	<0.010	0.010	ug/L	AM20GAX	2/2/10	sl
N Ethene	<0.010	0.010	ug/L	AM20GAX	2/2/10	sl
N Hydrogen	2.000	0.600	nM	AM20GAX	2/2/10	sl
N Methane	0.260	0.015	ug/L	AM20GAX	2/2/10	sl
SemiVolatiles						
N Acetic Acid	<0.07	0.07	mg/L	AM23G	1/29/10	kb
N Butyric Acid	<0.07	0.07	mg/L	AM23G	1/29/10	kb
N Lactic Acid	<0.1	0.1	mg/L	AM23G	1/29/10	kb
N Propionic Acid	<0.07	0.07	mg/L	AM23G	1/29/10	kb
N Pyruvic Acid	<0.07	0.07	mg/L	AM23G	1/29/10	kb

N - NELAC certified analysis

Client Name: Municipal Engineering Services Company
Contact: Jonathan Pfohl
Address: 1140 Benson Hwy.
Suite 200
Garner, NC 27529

Lab Proj #: P1001265
Report Date: 02/08/10
Client Proj Name: Albemarle
Client Proj #: G10009.0

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
MW-10	Vapor	P1001265-07	20 Jan. 10 13:30	22 Jan. 10 11:29

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Ethane	<0.010	0.010	ug/L	AM20GAX	2/2/10	sl
N Ethene	<0.010	0.010	ug/L	AM20GAX	2/2/10	sl
N Hydrogen	0.660	0.600	nM	AM20GAX	2/2/10	sl
N Methane	<0.015	0.015	ug/L	AM20GAX	2/2/10	sl
SemiVolatiles						
N Acetic Acid	0.410	0.07	mg/L	AM23G	1/29/10	kb
N Butyric Acid	<0.07	0.07	mg/L	AM23G	1/29/10	kb
N Lactic Acid	0.340	0.1	mg/L	AM23G	1/29/10	kb
N Propionic Acid	0.100	0.07	mg/L	AM23G	1/29/10	kb
N Pyruvic Acid	0.100	0.07	mg/L	AM23G	1/29/10	kb

N - NELAC certified analysis

Client Name: Municipal Engineering Services Company
Contact: Jonathan Pfohl
Address: 1140 Benson Hwy.
Suite 200
Garner, NC 27529

Lab Proj #: P1001265
Report Date: 02/08/10
Client Proj Name: Albemarle
Client Proj #: G10009.0

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
MW-24	Vapor	P1001265-08	21 Jan. 10 11:30	22 Jan. 10 11:29

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Ethane	<0.010	0.010	ug/L	AM20GAX	2/2/10	sl
N Ethene	<0.010	0.010	ug/L	AM20GAX	2/2/10	sl
N Hydrogen	1.100	0.600	nM	AM20GAX	2/2/10	sl
N Methane	1.400	0.015	ug/L	AM20GAX	2/2/10	sl
SemiVolatiles						
N Acetic Acid	<0.07	0.07	mg/L	AM23G	1/29/10	kb
N Butyric Acid	<0.07	0.07	mg/L	AM23G	1/29/10	kb
N Lactic Acid	<0.1	0.1	mg/L	AM23G	1/29/10	kb
N Propionic Acid	<0.07	0.07	mg/L	AM23G	1/29/10	kb
N Pyruvic Acid	<0.07	0.07	mg/L	AM23G	1/29/10	kb

N - NELAC certified analysis

Client Name: Municipal Engineering Services Company
Contact: Jonathan Pfohl
Address: 1140 Benson Hwy.
Suite 200
Garner, NC 27529

Lab Proj #: P1001265
Report Date: 02/08/10
Client Proj Name: Albemarle
Client Proj #: G10009.0

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
MW-25	Vapor	P1001265-09	21 Jan. 10 9:00	22 Jan. 10 11:29

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Ethane	<0.010	0.010	ug/L	AM20GAX	2/3/10	sl
N Ethene	<0.010	0.010	ug/L	AM20GAX	2/3/10	sl
N Hydrogen	1.100	0.600	nM	AM20GAX	2/3/10	sl
N Methane	11.000	0.015	ug/L	AM20GAX	2/3/10	sl
SemiVolatiles						
N Acetic Acid	<0.07	0.07	mg/L	AM23G	1/29/10	kb
N Butyric Acid	<0.07	0.07	mg/L	AM23G	1/29/10	kb
N Lactic Acid	0.160	0.1	mg/L	AM23G	1/29/10	kb
N Propionic Acid	<0.07	0.07	mg/L	AM23G	1/29/10	kb
N Pyruvic Acid	<0.07	0.07	mg/L	AM23G	1/29/10	kb

N - NELAC certified analysis

Microseeps Lab. Proj. # P1001205

CHAIN - OF - CUSTODY RECORD

Microseeps COC cont. # 1/0

Phone: (412) 826-5245 | Microseeps, Inc. - 220 William Pitt Way - Pittsburgh, PA 15238 | Fax No. : (412) 826-3433

Company : Municipal Engineering Services (MESCO)

Co. Address : PO Box 97 Garner NC 27529

Phone # : (919) 696-1383 mobile (919) 772-5393 Fax # : (919) 772-1176

Proj. Manager : Jonathan Pfohl

Proj. Name/Number : Albemarle - MNA

Sampler's signature :

Cooler Temp.

Results to : J. Pfohl

Invoice to : J. Pfohl

Parameters Requested

	Sample ID	Sample Description	Sample Type Water	Vapor	Solid	Date	Time	Bottles	VFA via (AM21G)	Methane, Ethane, Ethene via (AM20GAX)	Hydrogen - Dissolved via (AM20GAX)		ML of Gas Injected into Vial							Remarks
1	MW-1		✓	✓		1/20/10	2:35		✓	✓	✓		15							
2	MW-2		↓	↓		1/21/10	10:10		↓	↓	↓		15							
3	MW-3					1/20/10	12:25						15							
4	MW-6					1/21/10	1:40						10							
5	MW-7					1/21/10	3:20						15							
6	MW-9					1/20/10	4:05						15							
7	MW-10					1/20/10	1:30						15							
8	MW-24					1/21/10	11:30						10							
9	MW-25		↓	↓		1/21/10	9:00		↓	↓	↓		15							

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	MESCO	1/21/10	5:00				
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Accompany Samples YELLOW COPY : Laboratory File PINK COPY : Submitter

Sampling Data Sheet

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

Project: Albemarle Closed MSWLF & Active C&D LF-MNA

Samplers: J. Pfohl Page 1 of 1

Monitoring Point	Sample Date	Sample Time	Sampling Parameters: Depth to Water (BTOP) 1/19 /10	Depth to Water (BTOP) Static Sample Time	Lab Parameters to be analyzed for	Volume Purged (Gal)	Sample Type	Goes Dry During Purge	Total Depth Measured as expected	Total Depth Expected	Water Quality Parameters: CO2 (mg/l)	DO (mg/L)	ORP	pH	Temp. ©	Specific Cond. (us/cm	TDS (mg/L)	Turbidity	CH4 Gas Vapors (ppm)
MW-1	1/20/10	2:35	4.47	4.47	MNA C	7	P&DB	N	Y	18	30	0.9	183	5.75	15.4	73	28	9.86 c	0
MW-2	1/21/10	10:10	5.10	5.08	MNA C	4	P&DB	N	Y	17.5	>100	0.5	155	5.82	11.5	470	238	12.3 c	0
MW-3	1/20/10	12:25	12.01	12.02	MNA C	8	P&DB	N	Y	22.5	>100	0.3	53	6.44	14.5	722	361	6.36 c	0
MW-6	1/21/10	1:40	20.20	20.18	MNA 1	5	P&DB	N	Y	37	90	0.9	232	5.62	13.7	228	114	16.2 c	0
MW-7	1/21/10	3:20	4.04	4.01	MNA 2	6	P&DB	N	Y	28.5	>100	0.8	21	6.32	9.9	960	437	8.88 c	0
MW-9	1/20/10	4:05	5.38	5.38	MNA 3	4	P&DB	N	Lock Replaced Y	17.68	>100	1.3	63	6.42	12.8	626	303	68.3 c	0
MW-10	1/20/10	1:30	3.31	3.29	MNA 4	7	P&DB	N	Removed Tubing Y	18	30	0.9	89	6.81	12.1	366	174	23.2 c	0
MW-24	1/21/10	11:30	3.80	3.80	MNA C	4	P&DB	N	Y	21.25	60	0.4	123	6.91	10.5	1341	670	10.2 c	0
MW-25	1/21/10	9:00	3.41	3.40	MNA C	7	P&DB	N	Y	18.2	60	0.5	194	5.79	9.8	382	192	9.86 c	0

10ml Gas

10ml Gas

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

MW-10 Removed Tubing as slimy w/ Algae

Sampling Data Sheet

Municipal Services Engineering Company
Garner, NC Boone, NC

Project: Albemarle Closed MSWLF & Active C&D LF-DM

Samplers: J. Pfohl Page 1 of 1

Monitoring Point	Sample Date	Sample Time	Sampling Parameters: Depth to Water (BTOP) 1/19/10	Depth to Water (BTOP) Static Sample Time	Lab Parameters to be analyzed for	Volume Purged (Gal)	Sample Type	Goes Dry During Purge	Total Depth Measured as expected	Total Depth Expected	Water Quality Parameters: CO2 (mg/l)	DO (mg/L)	ORP	pH	Temp. ©	Specific Cond. (us/cm	TDS (mg/L)	Turbidity	CH4 Gas Vapors (ppm)
MW-4R	1/20/10	3:00	15.04	15.04	DM	~5	P&DB	Y	Replaced Rock Y	~25	NR	0.8	30	6.12	13.6	301	147	14.1 c	0
MW-5R	1/20/10	1:00	6.08	6.07	DM	4.5	P&DB	Y	Y	✓25	NR	0.4	41	6.81	12.9	631	312	11.7 c	0
MW-8D	1/20/10	4:40	53.09	53.10	DM	9	P&DB	Y	Y	✓75.9	NR	0.9	40	6.62	14.1	883	421	8.36 c	0
MW-11	1/20/10	12:00	4.56	4.54	DM	6	DB	N	Replaced Rock ✓	18	NR	1.1	6	6.31	14.0	127	59	6.31 c	0
MW-12	1/20/10	11:15	8.34	8.34	DM	2	P&DB	Y	Lock was rusted Replaced Y	22	NR	0.8	-32	6.49	14.5	589	293	31.3 ST	0
SW-5	See Note		-	-	DM	-		-	-	-									
MW-4	NS	NS	3.91		WLR	-	-	-			-	-	-	-	-	-	-	-	
MW-8	NS	NS	Dry		WLR	-	-	-			-	-	-	-	-	-	-	-	

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