Semi-Annual Groundwater Sampling and Analysis Report

Prepared for

Alexander County Closed MSWLF and Active C&D Landfill
Taylorsville, North Carolina

December, 2006

Permit Number: 02-01
MESCO Project Number: G06003.0

Completed on April 3, 2007

Municipal Services Garner, NC
Engineering Company, P.A. Boone, NC

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

OPERATION/CONSTRUCTION MANAGERS

Municipal Services

CIVIL/SANITARY ENGINEERS

Engineering Company, P.A.

March 30, 2007

Ms. Jaclynne Drummond
Solid Waste Section
Division of Waste Management
North Carolina Department of Environment and Natural Resources
401 Oberlin Road, Suite 150
Raleigh, NC 27605

Re: Groundwater Assessment Monitoring Sampling and Analysis
Alexander County Closed MSWLF and active C&D Landfill
Permit No. 02-01
MESCO Project No. G06003.0

Dear Ms. Drummond:

Municipal Engineering Services Company, P.A. (MESCO), sampled the Alexander County Closed MSWLF and active C&D landfill for the Appendix I list of constituents on December 14 & 15, 2006. All of the monitoring locations contained in the sampling and analysis plan were sampled with the exception of MW-1A which was dry. Environmental Conservation Laboratories, Inc. (ENCO) of Cary, North Carolina completed the lab analyses, the results of which are included herein.

All detected constituents were analyzed for regulatory exceedance with reference to North Carolina Groundwater Standards. The analysis was completed and reported to the method detection limit (MDL). The results are shown in the enclosed tables titled "Detection Scan". Two separate detection scans are attached. One detection scan depicts all detections found above the MDL and the other shows only the parameters detected above the Standard (MCL) and the Solid Waste Section Reporting Limit (SWSL). The SWSL has been undergoing updating lately therefore the SWSL as of the actual sampling date was utilized. The following table (Table 1) summarizes those constituents that exceeded the Standard.

Table 1. Exceedance Summary

Well	Lead	Benzene	1,4-DCB	1,2-DCA	PCE
MW-1		x			
MW-1B		x	x		
MW-2		x	x		
MW-3		x	x		
MW-4R		x	x		
MW-5		x			
MW-7		x	x		x
MW-10	x				
MW-11		x	x	x	x
MW-12		x	x		x
MW-14		x	x		
MW-15		x			
MW-17		x			

x = concentration greater than NCGW2L Standard

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Inorganic constituents detections continue to be detected within several of the monitoring locations but only lead within MW-10 was found above the MCL. This is the premier detection of lead within MW-10 therefore a trend cannot be identified.

However, Volatile Organic Compounds (VOCs) were found within all of the monitoring locations with the exception of the deep monitoring well MW-12D and the surface water sites SW-3 and SW-4R. The detected VOCs continue to be primarily low level chlorinated compounds such as 1,1-dichloroethane and it's isomer cis-1,2-Dichloroethene. Aromatic hydrocarbons including benzene also continue to be detected above the NCGW2L Standard within all of the monitoring wells with the exception of MW-10. As shown in the enclosed charts all parameters were found in concentrations below their respective historical levels with the exception of the premier detection of PCE within MW-7, MW-11, and MW-12. It is important to note that the recent decrease in the detection limits is directly responsible for the proliferation of low level VOC detections which would have not been quantifiable in previous sampling events.

Water samples extracted from MW-12, located downgradient of the uncapped closed landfill portion, has continuously contained both purgeable aromatics and purgeable halocarbons since it was installed in 2000. Concentrations of the aromatic benzene have been found to have slightly decreased during this event after exhibiting a general increasing trend during the previous 5 events. However, MW-7 which is located hydraulically upgradient and closer to the waste boundary continues to yield VOC concentrations lower than MW-12 indicating that the leading edge of the plume has passed. MW-12D the deeper counterpart to MW-12 continues to lack VOC detections which indicates that the aquifer is only impacted in the upper portion in this region.

The water quality within the aquifer directly downgradient of the central portion of the closed landfill monitored by MW-3 and MW-11 also continues to exhibit degradation with concentrations of benzene, 1,4-dichlorobenzene, PCE, and 1,2-dichloroethane detected above the Standard within MW-11. MW-3, which is located closer to the waste limit than MW-11 was found to contain a total of 9 VOCs with levels of benzene and 1,4-dichlorobenzene found above the MCL. VOC concentrations have generally decreased within MW-3 over the previous several events.

The decrease of VOC detections within the downgradient wells MW-3 and MW-7 located closest to the waste boundary may be attributed to a decrease in leachate migration attributed to overland flow as a result of an improved cohesive clay barrier constructed by the county in the summer of 2003. Leachate plumes were identified in these regions in 2003 therefore the county placed compacted clay over the entire slopes, toes, and surface of the southeast portion of the Closed Landfill to provide a barrier to contain the leachate. The probable leachate origination areas have been inspected during each semi-annual site visit and it appears that no seeps or erosion features of any kind have returned. Therefore it is plausible that the improvement of the quality of the shallower aquifer that has been demonstrated during the previous 2 sampling events can be contributed to the improved clay barrier. Therefore groundwater within the aquifer monitored by MW-11 and MW-12 is expected to also improve as the residuals of the plume migrate and natural attenuation continues.

The northeast portion of the facility monitored by MW-2 and MW-14 also continues to be impacted by the aromatics benzene and 1,4-DCB. MW-2, located closer to the waste boundary, was repaired and was sampled for the first time since 1999. The concentrations of aromatics in the upper aquifer are higher closer to the waste boundary which is contrary to other regions of the facility. This indicates that the source still persists and MW-14 will likely continue to be impacted for the next several sampling events.

The background area, located at the north property line, was found to contain a few VOC detections with benzene found above the MCL within both MW-1 and MW-1B. Methane gas was detected within all of the background monitoring wells MW-1, MW-1A, MW-1B, and the methane probe closest to MW-1. Landfill gas (LFG) may be contributing to the VOCs detected within the groundwater within the north portion of the property.

MESCO completed the required potentiometric map with groundwater elevations on the day of sampling. The field data sheet and Chain of Custody sheets have also been included. The facility will continue assessment monitoring and will be sampled for the complete Appendix I list of constituents in June 2007. If you have any questions or comments regarding this report, please contact me at (919) 772-5393 or by email at jpfohl@mesco.com.

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

Jonathan Pfohl
Environmental Specialist

Enclosures
cc: Mr. Josh Mitchell
Alexander County

Detection Scan All Detections above SWSL and NCGW2L
Alexander County Closed MSWLF and Active C&D Landfill

Well ID	Parameter Name [1]	Sample Date	Result	Unit	SWSL [2]	NCGW2L [3]	Exceedance
MW-1	Cobalt	12/15/2006	0.0186	mg/L	0.01		
MW-1	Zinc	12/15/2006	0.0103	mg/L	0.01	1.05	
MW-1	**Benzene**	**12/15/2006**	**4.2**	**ug/L**	**3**	**1**	**3.2**
MW-1	cis-1,2-Dichloroethene	12/15/2006	6.6	ug/L	5	70	
MW-1B	Cobalt	12/15/2006	0.0698	mg/L	0.01		
MW-1B	Zinc	12/15/2006	0.0151	mg/L	0.01	1.05	
MW-1B	**Benzene**	**12/15/2006**	**1.3**	**ug/L**	**3**	**1**	**0.3**
MW-1B	**1,4-Dichlorobenzene**	**12/15/2006**	**1.9**	**ug/L**	**3**	**1.4**	**0.5**
MW-2	Barium	12/15/2006	0.151	mg/L	0.1	2	
MW-2	Cobalt	12/15/2006	0.448	mg/L	0.01		
MW-2	Zinc	12/15/2006	0.0157	mg/L	0.01	1.05	
MW-2	**1,4-Dichlorobenzene**	**12/15/2006**	**5**	**ug/L**	**3**	**1.4**	**3.6**
MW-2	**Benzene**	**12/15/2006**	**3**	**ug/L**	**3**	**1**	**2**
MW-2	cis-1,2-Dichloroethene	12/15/2006	13	ug/L	5	70	
MW-3	Zinc	12/14/2006	0.0117	mg/L	0.01	1.05	
MW-3	**1,4-Dichlorobenzene**	**12/14/2006**	**3.8**	**ug/L**	**3**	**1.4**	**2.4**
MW-3	**Benzene**	**12/14/2006**	**4.8**	**ug/L**	**3**	**1**	**3.8**
MW-3	cis-1,2-Dichloroethene	12/14/2006	7.6	ug/L	5	70	
MW-4R	Barium	12/14/2006	0.124	mg/L	0.1	2	
MW-4R	Cobalt	12/14/2006	0.178	mg/L	0.01		
MW-4R	**Benzene**	**12/14/2006**	**2.4**	**ug/L**	**3**	**1**	**1.4**
MW-4R	**1,4-Dichlorobenzene**	**12/14/2006**	**3.3**	**ug/L**	**3**	**1.4**	**1.9**
MW-4R	cis-1,2-Dichloroethene	12/14/2006	11	ug/L	5	70	
MW-5	cis-1,2-Dichloroethene	12/14/2006	6	ug/L	5	70	
MW-5	**Benzene**	**12/14/2006**	**2.8**	**ug/L**	**3**	**1**	**1.8**
MW-6	Cobalt	12/15/2006	0.0241	mg/L	0.01		
MW-6	Zinc	12/15/2006	0.0162	mg/L	0.01	1.05	
MW-7	Zinc	12/14/2006	0.0101	mg/L	0.01	1.05	
MW-7	**1,4-Dichlorobenzene**	**12/14/2006**	**3**	**ug/L**	**3**	**1.4**	**1.6**
MW-7	cis-1,2-Dichloroethene	12/14/2006	7.3	ug/L	5	70	
MW-7	**Tetrachloroethene**	**12/14/2006**	**1.2**	**ug/L**	**3**	**0.7**	**0.5**
MW-7	**Benzene**	**12/14/2006**	**2.6**	**ug/L**	**3**	**1**	**1.6**
MW-8	Copper	12/15/2006	0.0167	mg/L	0.01	1	
MW-8	Zinc	12/15/2006	0.0189	mg/L	0.01	1.05	
MW-8	Toluene	12/15/2006	6.5	ug/L	5	1000	
MW-9	Barium	12/14/2006	0.108	mg/L	0.1	2	
MW-9	cis-1,2-Dichloroethene	12/14/2006	8.3	ug/L	5	70	
MW-10	Copper	12/14/2006	0.196	mg/L	0.01	1	
MW-10	**Lead**	**12/14/2006**	**0.0189**	**mg/L**	**0.01**	**0.015**	**0.0039**
MW-10	Zinc	12/14/2006	0.252	mg/L	0.01	1.05	
MW-11	Barium	12/14/2006	0.107	mg/L	0.1	2	
MW-11	Cobalt	12/14/2006	0.117	mg/L	0.01		
MW-11	Zinc	12/14/2006	0.0325	mg/L	0.01	1.05	
MW-11	**1,4-Dichlorobenzene**	**12/14/2006**	**7.5**	**ug/L**	**3**	**1.4**	**6.1**
MW-11	**Benzene**	**12/14/2006**	**4.6**	**ug/L**	**3**	**1**	**3.6**
MW-11	**1,2-Dichloroethane**	**12/14/2006**	**1.1**	**ug/L**	**3**	**0.38**	**0.72**
MW-11	**Tetrachloroethene**	**12/14/2006**	**1.1**	**ug/L**	**3**	**0.7**	**0.4**

MW-11	cis-1,2-Dichloroethene	12/14/2006	26	ug/L	5	70	
MW-12	Barium	12/14/2006	0.103	mg/L	0.1	2	
MW-12	**1,4-Dichlorobenzene**	**12/14/2006**	**6.9**	**ug/L**	**3**	**1.4**	**5.5**
MW-12	**Benzene**	**12/14/2006**	**6.3**	**ug/L**	**3**	**1**	**5.3**
MW-12	**Tetrachloroethene**	**12/14/2006**	**2**	**ug/L**	**3**	**0.7**	**1.3**
MW-12	cis-1,2-Dichloroethene	12/14/2006	9.1	ug/L	5	70	
MW-12D	Zinc	12/15/2006	0.0156	mg/L	0.01	1.05	
MW-13	Zinc	12/15/2006	0.0112	mg/L	0.01	1.05	
MW-14	Barium	12/15/2006	0.107	mg/L	0.1	2	
MW-14	Cobalt	12/15/2006	0.238	mg/L	0.01		
MW-14	Zinc	12/15/2006	0.0209	mg/L	0.01	1.05	
MW-14	**1,4-Dichlorobenzene**	**12/15/2006**	**4**	**ug/L**	**3**	**1.4**	**2.6**
MW-14	**Benzene**	**12/15/2006**	**1.9**	**ug/L**	**3**	**1**	**0.9**
MW-14	cis-1,2-Dichloroethene	12/15/2006	9.3	ug/L	5	70	
MW-15	**Benzene**	**12/15/2006**	**2.2**	**ug/L**	**3**	**1**	**1.2**
MW-17	**Benzene**	**12/15/2006**	**1.1**	**ug/L**	**3**	**1**	**0.1**
MW-17	Cobalt	12/15/2006	0.0199	mg/L	0.01		
SW-3	Cobalt	12/14/2006	0.0241	mg/L	0.01		
SW-5	Barium	12/14/2006	0.135	mg/L	0.1	2	
SW-5	Cobalt	12/14/2006	0.168	mg/L	0.01		

[1] Table only contains detected constituents.

[2] SWSL = Solid Waste Section Limit (Current as of sampling event)

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

Detection Scan All Detections above MDL
Alexander County Closed MSWLF and Active C&D Landfill

Well ID	Parameter Name [1]	Sample Date	Result	Unit	SWSL [2]	NCGW2L [3]	Exceedance
MW-1	Zinc	12/15/2006	0.0103	mg/L	0.01	1.05	
MW-1	Cobalt	12/15/2006	0.0186	mg/L	0.01		
MW-1	Barium	12/15/2006	0.036	mg/L	0.1	2	
MW-1	1,4-Dichlorobenzene	12/15/2006	1.3	ug/L	3	1.4	
MW-1	Toluene	12/15/2006	2	ug/L	5	1000	
MW-1	1,1-Dichloroethane	12/15/2006	2.1	ug/L	5	70	
MW-1	**Benzene**	**12/15/2006**	**4.2**	**ug/L**	**3**	**1**	**3.2**
MW-1	cis-1,2-Dichloroethene	12/15/2006	6.6	ug/L	5	70	
MW-1B	Nickel	12/15/2006	0.0103	mg/L	0.05	0.1	
MW-1B	Zinc	12/15/2006	0.0151	mg/L	0.01	1.05	
MW-1B	Barium	12/15/2006	0.0666	mg/L	0.1	2	
MW-1B	Cobalt	12/15/2006	0.0698	mg/L	0.01		
MW-1B	**Benzene**	**12/15/2006**	**1.3**	**ug/L**	**3**	**1**	**0.3**
MW-1B	1,1-Dichloroethane	12/15/2006	1.6	ug/L	5	70	
MW-1B	o-Xylene	12/15/2006	1.8	ug/L	NE		
MW-1B	**1,4-Dichlorobenzene**	**12/15/2006**	**1.9**	**ug/L**	**3**	**1.4**	**0.5**
MW-1B	cis-1,2-Dichloroethene	12/15/2006	3.3	ug/L	5	70	
MW-1B	m-Xylene & p-Xylene	12/15/2006	3.7	ug/L	NE		
MW-2	Zinc	12/15/2006	0.0157	mg/L	0.01	1.05	
MW-2	Barium	12/15/2006	0.151	mg/L	0.1	2	
MW-2	Cobalt	12/15/2006	0.448	mg/L	0.01		
MW-2	Chlorobenzene	12/15/2006	1.8	ug/L	3	50	
MW-2	Chloroethane	12/15/2006	1.9	ug/L	10		
MW-2	Trichloroethene	12/15/2006	1.9	ug/L	3	2.8	
MW-2	1,1-Dichloroethane	12/15/2006	2	ug/L	5	70	
MW-2	**Benzene**	**12/15/2006**	**3**	**ug/L**	**3**	**1**	**2**
MW-2	**1,4-Dichlorobenzene**	**12/15/2006**	**5**	**ug/L**	**3**	**1.4**	**3.6**
MW-2	cis-1,2-Dichloroethene	12/15/2006	13	ug/L	5	70	
MW-3	Zinc	12/14/2006	0.0117	mg/L	0.01	1.05	
MW-3	Nickel	12/14/2006	0.0204	mg/L	0.05	0.1	
MW-3	Barium	12/14/2006	0.0645	mg/L	0.1	2	
MW-3	Chlorobenzene	12/14/2006	1	ug/L	3	50	
MW-3	Trichloroethene	12/14/2006	1	ug/L	3	2.8	
MW-3	Ethylbenzene	12/14/2006	1.4	ug/L	5	550	
MW-3	Toluene	12/14/2006	1.5	ug/L	5	1000	
MW-3	o-Xylene	12/14/2006	2.4	ug/L	NE		
MW-3	**1,4-Dichlorobenzene**	**12/14/2006**	**3.8**	**ug/L**	**3**	**1.4**	**2.4**
MW-3	**Benzene**	**12/14/2006**	**4.8**	**ug/L**	**3**	**1**	**3.8**
MW-3	m-Xylene & p-Xylene	12/14/2006	6.4	ug/L	NE		
MW-3	cis-1,2-Dichloroethene	12/14/2006	7.6	ug/L	5	70	
MW-4R	Barium	12/14/2006	0.124	mg/L	0.1	2	
MW-4R	Cobalt	12/14/2006	0.178	mg/L	0.01		
MW-4R	Chlorobenzene	12/14/2006	1.2	ug/L	3	50	
MW-4R	Chloroethane	12/14/2006	1.8	ug/L	10		
MW-4R	**Benzene**	**12/14/2006**	**2.4**	**ug/L**	**3**	**1**	**1.4**
MW-4R	**1,4-Dichlorobenzene**	**12/14/2006**	**3.3**	**ug/L**	**3**	**1.4**	**1.9**
MW-4R	1,1-Dichloroethane	12/14/2006	4.3	ug/L	5	70	

MW-4R	cis-1,2-Dichloroethene	12/14/2006	11	ug/L	5	70	
MW-5	Barium	12/14/2006	0.0708	mg/L	0.1	2	
MW-5	1,4-Dichlorobenzene	12/14/2006	1.2	ug/L	3	1.4	
MW-5	**Benzene**	**12/14/2006**	**2.8**	**ug/L**	**3**	**1**	**1.8**
MW-5	1,1-Dichloroethane	12/14/2006	2.9	ug/L	5	70	
MW-5	cis-1,2-Dichloroethene	12/14/2006	6	ug/L	5	70	
MW-6	Zinc	12/15/2006	0.0162	mg/L	0.01	1.05	
MW-6	Cobalt	12/15/2006	0.0241	mg/L	0.01		
MW-6	Barium	12/15/2006	0.0426	mg/L	0.1	2	
MW-7	Barium	12/14/2006	0.0101	mg/L	0.1	2	
MW-7	Zinc	12/14/2006	0.0101	mg/L	0.01	1.05	
MW-7	Trichloroethene	12/14/2006	1.2	ug/L	3	2.8	
MW-7	**Tetrachloroethene**	**12/14/2006**	**1.2**	**ug/L**	**3**	**0.7**	**0.5**
MW-7	Chlorobenzene	12/14/2006	1.4	ug/L	3	50	
MW-7	**Benzene**	**12/14/2006**	**2.6**	**ug/L**	**3**	**1**	**1.6**
MW-7	**1,4-Dichlorobenzene**	**12/14/2006**	**3**	**ug/L**	**3**	**1.4**	**1.6**
MW-7	1,1-Dichloroethane	12/14/2006	3.7	ug/L	5	70	
MW-7	cis-1,2-Dichloroethene	12/14/2006	7.3	ug/L	5	70	
MW-8	Copper	12/15/2006	0.0167	mg/L	0.01	1	
MW-8	Zinc	12/15/2006	0.0189	mg/L	0.01	1.05	
MW-8	Barium	12/15/2006	0.0633	mg/L	0.1	2	
MW-8	cis-1,2-Dichloroethene	12/15/2006	3.5	ug/L	5	70	
MW-8	Toluene	12/15/2006	6.5	ug/L	5	1000	
MW-9	Nickel	12/14/2006	0.0124	mg/L	0.05	0.1	
MW-9	Barium	12/14/2006	0.108	mg/L	0.1	2	
MW-9	1,1-Dichloroethane	12/14/2006	1.3	ug/L	5	70	
MW-9	cis-1,2-Dichloroethene	12/14/2006	8.3	ug/L	5	70	
MW-10	Nickel	12/14/2006	0.0104	mg/L	0.05	0.1	
MW-10	**Lead**	**12/14/2006**	**0.0189**	**mg/L**	**0.01**	**0.015**	**0.0039**
MW-10	Barium	12/14/2006	0.0597	mg/L	0.1	2	
MW-10	Copper	12/14/2006	0.196	mg/L	0.01	1	
MW-10	Zinc	12/14/2006	0.252	mg/L	0.01	1.05	
MW-10	cis-1,2-Dichloroethene	12/14/2006	1.2	ug/L	5	70	
MW-11	Nickel	12/14/2006	0.0164	mg/L	0.05	0.1	
MW-11	Zinc	12/14/2006	0.0325	mg/L	0.01	1.05	
MW-11	Barium	12/14/2006	0.107	mg/L	0.1	2	
MW-11	Cobalt	12/14/2006	0.117	mg/L	0.01		
MW-11	1,1-Dichloroethane	12/14/2006	1.1	ug/L	5	70	
MW-11	**1,2-Dichloroethane**	**12/14/2006**	**1.1**	**ug/L**	**3**	**0.38**	**0.72**
MW-11	**Tetrachloroethene**	**12/14/2006**	**1.1**	**ug/L**	**3**	**0.7**	**0.4**
MW-11	Trichloroethene	12/14/2006	1.2	ug/L	3	2.8	
MW-11	Chloroethane	12/14/2006	1.3	ug/L	10		
MW-11	Chlorobenzene	12/14/2006	2	ug/L	3	50	
MW-11	**Benzene**	**12/14/2006**	**4.6**	**ug/L**	**3**	**1**	**3.6**
MW-11	**1,4-Dichlorobenzene**	**12/14/2006**	**7.5**	**ug/L**	**3**	**1.4**	**6.1**
MW-11	cis-1,2-Dichloroethene	12/14/2006	26	ug/L	5	70	
MW-12	Barium	12/14/2006	0.103	mg/L	0.1	2	
MW-12	Chlorobenzene	12/14/2006	1.5	ug/L	3	50	
MW-12	Chloroethane	12/14/2006	2	ug/L	10		
MW-12	**Tetrachloroethene**	**12/14/2006**	**2**	**ug/L**	**3**	**0.7**	**1.3**
MW-12	Trichloroethene	12/14/2006	2.4	ug/L	3	2.8	

MW-12	1,1-Dichloroethane	12/14/2006	3.7	ug/L	5	70	
MW-12	**Benzene**	**12/14/2006**	**6.3**	**ug/L**	**3**	**1**	**5.3**
MW-12	**1,4-Dichlorobenzene**	**12/14/2006**	**6.9**	**ug/L**	**3**	**1.4**	**5.5**
MW-12	cis-1,2-Dichloroethene	12/14/2006	9.1	ug/L	5	70	
MW-12D	Zinc	12/15/2006	0.0156	mg/L	0.01	1.05	
MW-12D	Barium	12/15/2006	0.0168	mg/L	0.1	2	
MW-13	Zinc	12/15/2006	0.0112	mg/L	0.01	1.05	
MW-13	Nickel	12/15/2006	0.013	mg/L	0.05	0.1	
MW-13	Barium	12/15/2006	0.0321	mg/L	0.1	2	
MW-14	Nickel	12/15/2006	0.0121	mg/L	0.05	0.1	
MW-14	Zinc	12/15/2006	0.0209	mg/L	0.01	1.05	
MW-14	Barium	12/15/2006	0.107	mg/L	0.1	2	
MW-14	Cobalt	12/15/2006	0.238	mg/L	0.01		
MW-14	1,1-Dichloroethane	12/15/2006	1.4	ug/L	5	70	
MW-14	Chloroethane	12/15/2006	1.5	ug/L	10		
MW-14	Chlorobenzene	12/15/2006	1.5	ug/L	3	50	
MW-14	**Benzene**	**12/15/2006**	**1.9**	**ug/L**	**3**	**1**	**0.9**
MW-14	**1,4-Dichlorobenzene**	**12/15/2006**	**4**	**ug/L**	**3**	**1.4**	**2.6**
MW-14	cis-1,2-Dichloroethene	12/15/2006	9.3	ug/L	5	70	
MW-15	Barium	12/15/2006	0.0225	mg/L	0.1	2	
MW-15	**Benzene**	**12/15/2006**	**2.2**	**ug/L**	**3**	**1**	**1.2**
MW-15	cis-1,2-Dichloroethene	12/15/2006	3.5	ug/L	5	70	
MW-15	1,1-Dichloroethane	12/15/2006	4.6	ug/L	5	70	
MW-17	Zinc	12/15/2006	0.01	mg/L	0.01	1.05	
MW-17	Cobalt	12/15/2006	0.0199	mg/L	0.01		
MW-17	Barium	12/15/2006	0.0579	mg/L	0.1	2	
MW-17	**Benzene**	**12/15/2006**	**1.1**	**ug/L**	**3**	**1**	**0.1**
MW-17	Toluene	12/15/2006	2	ug/L	5	1000	
MW-17	cis-1,2-Dichloroethene	12/15/2006	2.6	ug/L	5	70	
MW-17	1,1-Dichloroethane	12/15/2006	3.2	ug/L	5	70	
SW-3	Cobalt	12/14/2006	0.0241	mg/L	0.01		
SW-3	Barium	12/14/2006	0.03	mg/L	0.1	2	
SW-4R	Barium	12/15/2006	0.0161	mg/L	0.1	2	
SW-5	Barium	12/14/2006	0.135	mg/L	0.1	2	
SW-5	Cobalt	12/14/2006	0.168	mg/L	0.01		
SW-5	1,1-Dichloroethane	12/14/2006	1.3	ug/L	5	70	
SW-5	1,4-Dichlorobenzene	12/14/2006	1.4	ug/L	3	1.4	
SW-5	cis-1,2-Dichloroethene	12/14/2006	4.8	ug/L	5	70	

[1] Table only contains detected constituents.

[2] SWSL = Solid Waste Section Limit (Current as of sampling event)

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

NE = Not Established as of time of sampling event

Hydrologic Properties at Monitoring Well Locations
Alexander County Closed MSWLF and Active C&D Landfill

Monitoring Well	Hydraulic Conductivity (cm/sec)	Effective Porosity (%)	Hydraulic Gradient	Flow Rate (ft/yr)	Flow Direction	Water Table Depth (ft)	Water Table Elev. (ft)
MW-1	5.60E-05	1%	0.09	515	S32W	35.92	1044.62
MW-1B	-	-	0.16	-	N25W	45.04	1037.52
MW-2	-	-	0.02	-	S82E	25.31	979.17
MW-3	3.90E-06	1%	0.19	75	S10W	25.42	999.31
MW-4R	4.90E-04	15%	0.05	173	S15W	16.45	996.19
MW-5	6.40E-05	15%	0.06	27	S0E	41.57	1009.69
MW-6	2.40E-05	1%	0.11	276	S44W	26.27	984.52
MW-7	1.60E-06	1%	0.06	10	S23W	41.3	967.94
MW-8	1.30E-05	1%	0.55	743	N23W	12.15	1009.86
MW-9	-	-	0.08	-	S5E	11.95	984.32
MW-10	-	-	0.06	-	S28W	37.81	1002.99
MW-11	-	-	0.10	-	S12W	40.5	971.46
MW-12	-	-	0.07	-	S8W	52.68	954.67
MW-13	-	-	0.04	-	S30W	35.38	969.18
MW-14	-	-	0.28	-	N89W	39.12	958.32
MW-15	-	-	0.01	-	N44W	23.88	999.56
MW-17	-	-	0.20	-	N46W	15.67	975.49

NOTE: All values for hydraulic conductivity obtained from GAI Consultants Sampling Report (April, 1995).
Hydrologic Gradient taken from the December 14 & 15, 2006 sampling event.
Flow rate (Q) is defined by the equation:

where

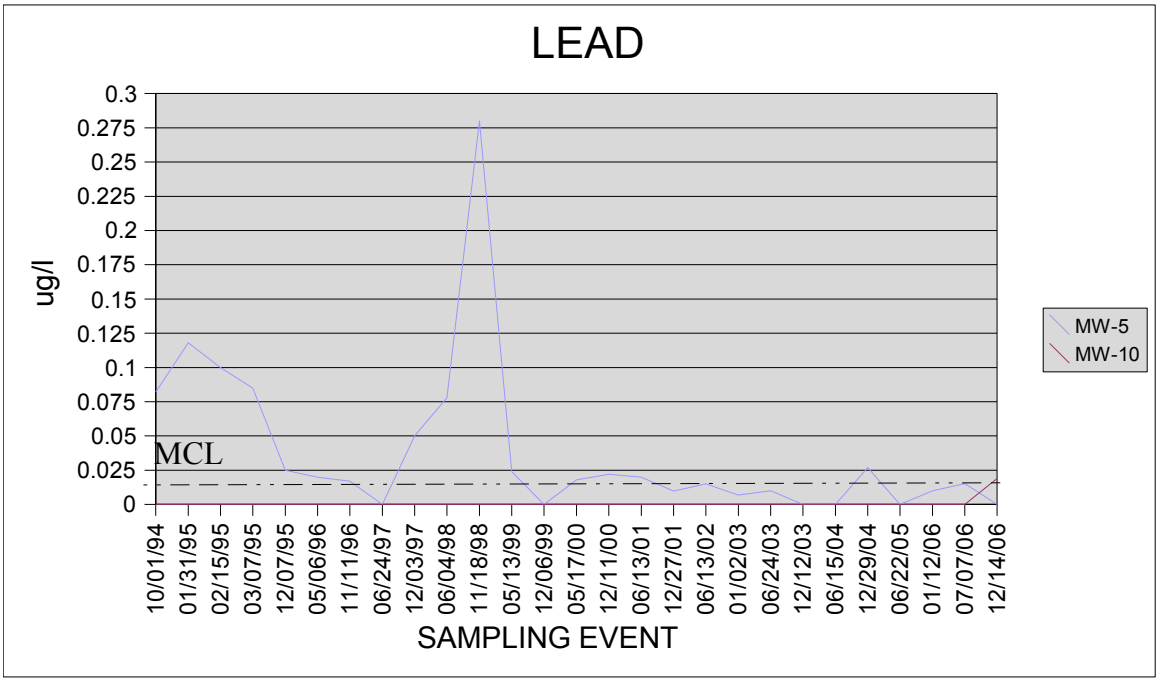
$$Q = -\frac{K}{n_e} \cdot \frac{dh}{dl}$$

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

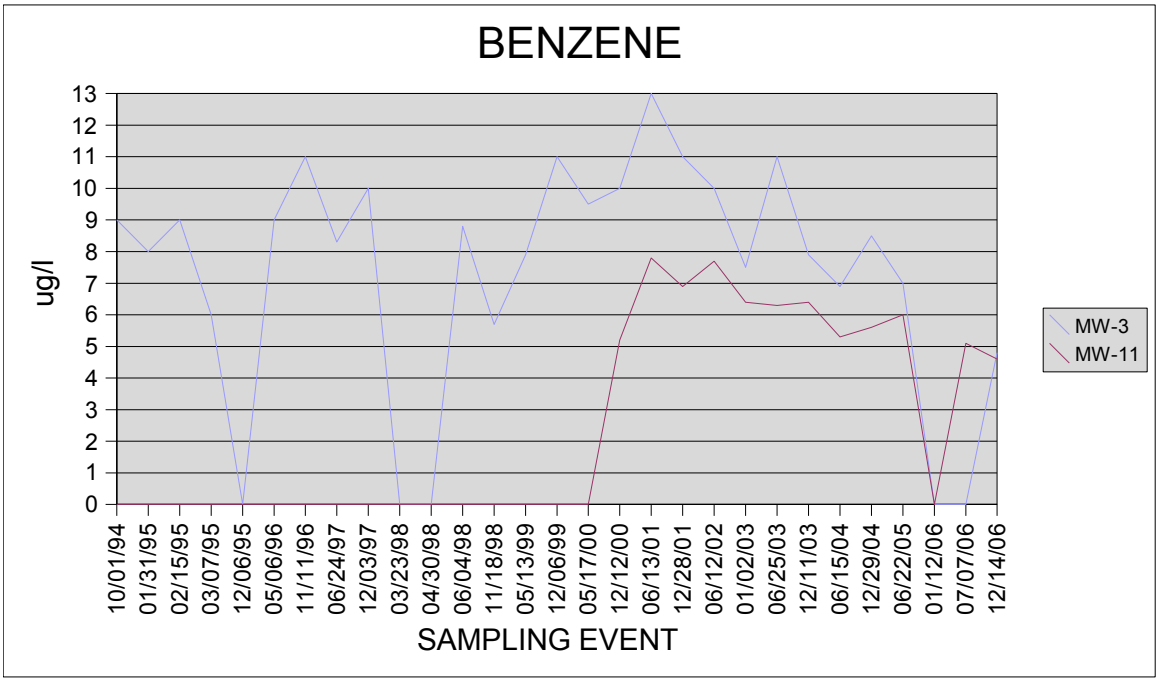
Water Level Elevations at Monitoring Well Locations
Alexander County Closed MSWLF and Active C&D Landfill
December 14 & 15, 2006 Sampling Event

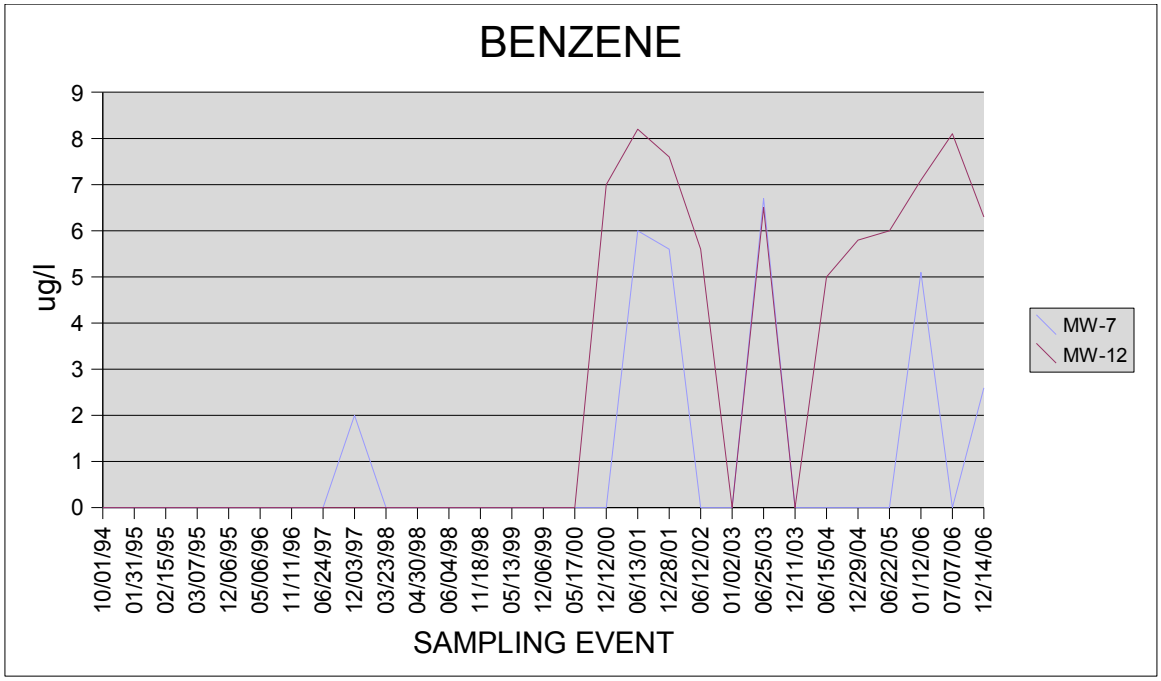
WELL #	TOP OF PIPE ELEVATION (FT)	WATER TABLE DEPTH (FT)	WATER TABLE ELEVATION (FT)
MW-1	1080.54	35.92	1044.62
MW-1A	1085.36	DRY	NA
MW-2	1004.48	25.31	979.17
MW-1B	1082.56	45.04	1037.52
MW-3	1024.73	25.42	999.31
MW-4R	1012.64	16.45	996.19
MW-5	1051.26	41.57	1009.69
MW-6	1010.79	27.72	983.07
MW-7	1009.24	41.3	967.94
MW-8	1022.01	12.15	1009.86
MW-9	996.27	11.95	984.32
MW-10	1040.8	37.81	1002.99
MW-11	1011.96	40.5	971.46
MW-12	1007.35	52.68	954.67
MW-12D	1008.46	60.36	948.10
MW-13	1004.56	35.38	969.18
MW-14	997.44	39.12	958.32
MW-15	1023.44	23.88	999.56
MW-17	991.16	15.67	975.49

Histograms for Select Constituents (Metals)
Alexander County Closed MSWLF and Active C&D Landfill

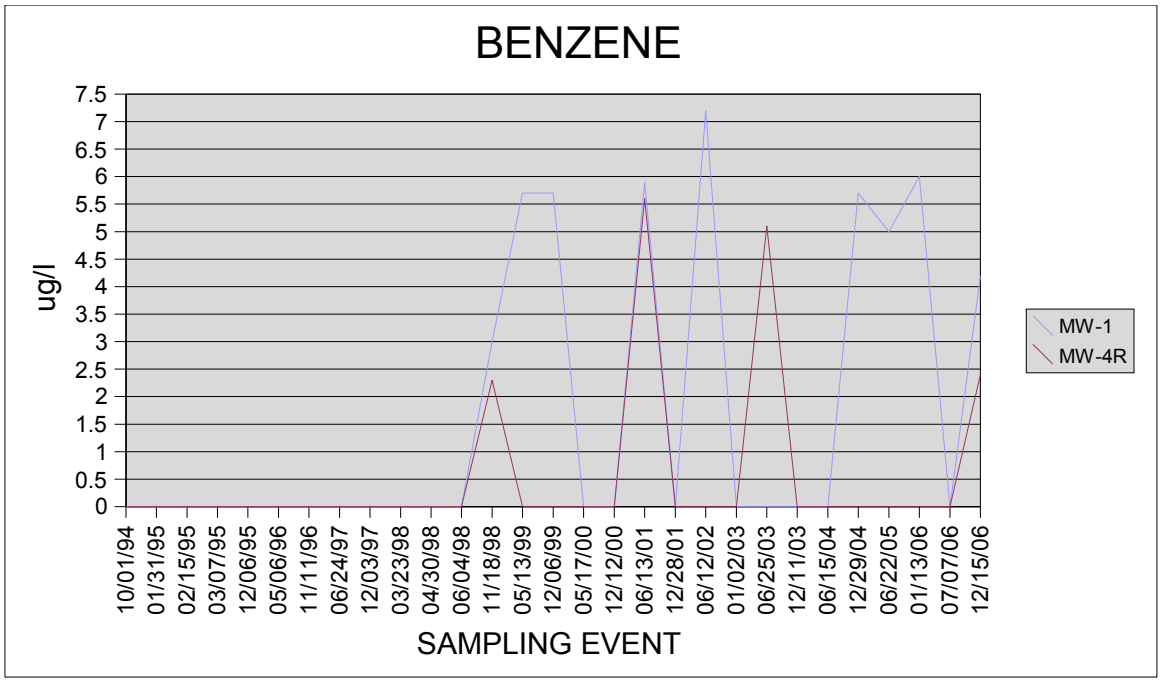


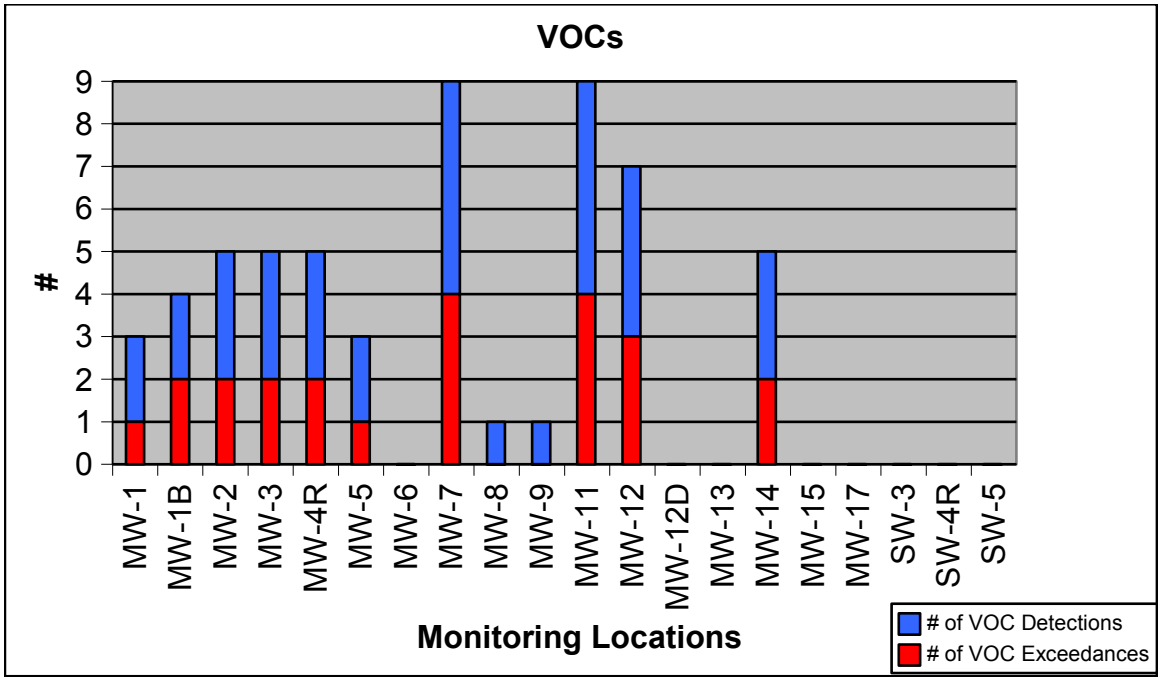
Histograms for Select Constituents (VOCs)
Alexander County Closed MSWLF and Active C&D Landfill



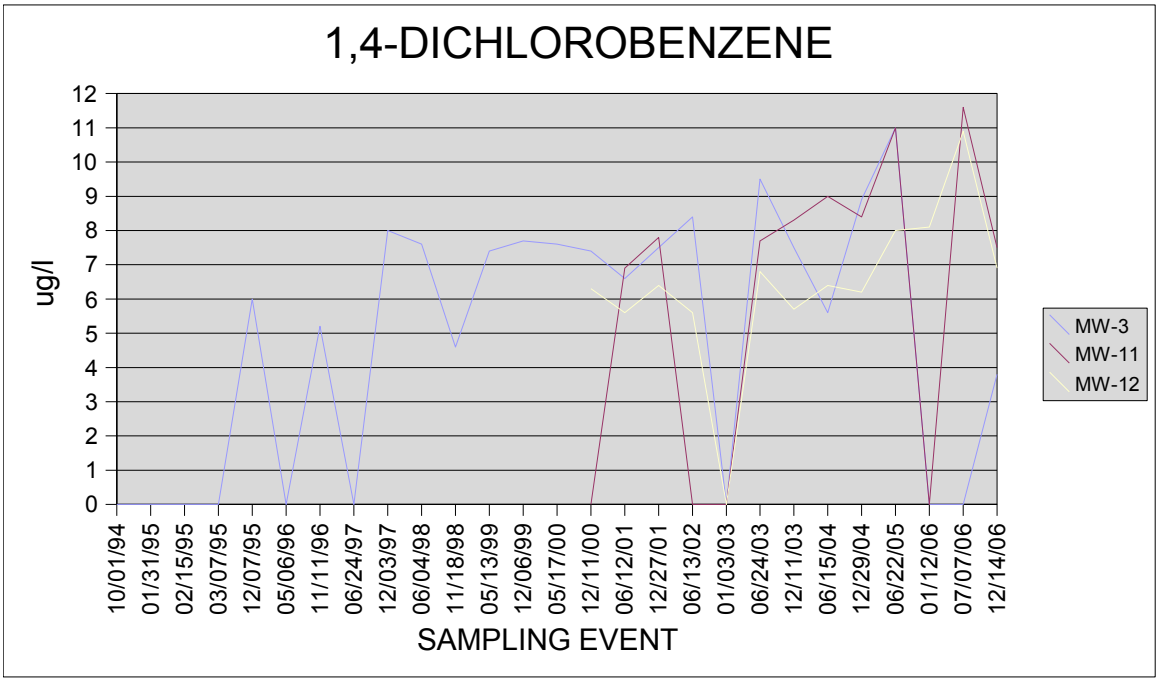


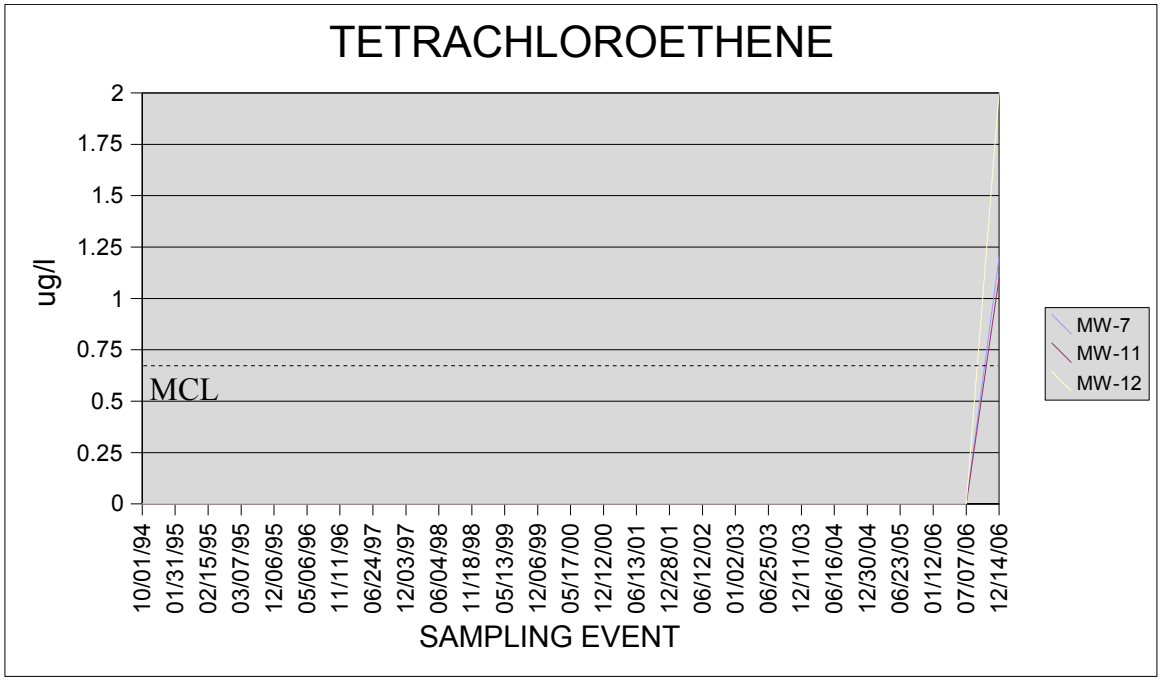
Histograms for Select Constituents (VOCs)
Alexander County Closed MSWLF and Active C&D Landfill





Histograms for Select Constituents (VOCs)
Alexander County Closed MSWLF and Active C&D Landfill





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1 of 2

Sampling Data Sheet

Municipal Service Company, Inc. — Engineering Company, Inc.

Project: Alexander Co. Closed MSWLF and C&D Landfill

Samplers: J. Pfohl

Monitoring Point	Sample Date	Sample Time	Sampling Parameters: Depth to Water (BTOP) Static	Depth to Water (BTOP) Sample Time	Volume Purged (Gal)	Sample Type	Sampling Depth (BGS)	Water Quality Parameters: pH	Temp.	Specific Cond.	Turbidity	Total Depth
MW-5	12/14/06	10:00	41.57		PD	P		6.8	16.8	270	C	49.1
MW-10		10:45	37.81		PD	P & DBL		7.1	16.3	50	C	91
SW-3		11:00	—		—	Dip		7.2	10.1	30	C	—
MW-4R		11:40	16.45		2	P		6.7	16.9	140	C	21.5
MW-9		12:20	11.95		PD	P		6.6	16.9	160	C	31.5
SW-5		1:35	—		—	Dip		7.1	10.3	30	C	—
MW-11		2:10	40.50		7	P		5.9	17.2	360	C	56
MW-3		2:50	25.42		PD	P		5.8	17.3	370	C	33
MW-12D		3:40	60.36		PD	P & DBL		6.6	15.8	60	C	102.5
MW-12		4:10	52.68		9	P		5.5	16.1	130	C	66.5
MW-7		4:45	41.30		PD	P		6.4	16.5	100	C	54
MW-15	12/15/06	7:30	23.88		5	P		6.6	16.6	80	C	35
MW-8		8:30	12.15	Dead Mouse (2)	PD	P		6.8	16.6	190	ST	28.5
MW-17		9:35	15.67		PD	P		6.7	16.6	80	C	22.2
MW-13		10:50	35.38		PD	P		6.6	16.5	70	ST to C	60.5
MW-6		11:30	27.72		PD	P		6.6	16.6	50	C	42
MW-14		12:10	39.12		PD	SS		6.5	16.5	160	C	40.5
MW-2		1:30	25.31	Removed D. Baler with Nowy Descend	PD	DB		6.2	16.6	190	ST	30

Comments

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

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

- Josh Mitchell

Sampling Data Sheet

Project: Alexander Co. Closed MSWLF and C&D Landfill

Samplers: J. Pfohl

Monitoring Point	Sample Date	Sample Time	Sampling Parameters: Depth to Water (BTOP) Static	Depth to Water (BTOP) Sample Time	Volume Purged (Gal)	Sample Type	Sampling Depth (BGS)	Water Quality Parameters: pH	Temp.	Specific Cond.	Turbidity	Total Depth	CH4 LEL
MW-1	12/15/06	2:05	35.92		PD	P		5.6	16.0	190	C	40	>100%
MW-1B		2:40	45.04		PD	P		5.8	15.8	110	C	61	
MW-1A	NS	—	DRY										
SW-4R		3:00	—										
EB	12/14/06	9:35											
FB		9:40											
TB	ENCO Filled												

Comments

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

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

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

Client Name: Municipal Engineering Services (MU001)	Project Number: G06003.0
Address: P.O. Box 97	Project Name/Desc: Alexander Co. Closed LF
City/ST/Zip: Garner, NC 27529	PO # / Billing Info:
Tel: (919) 772-5393 Fax: (919) 772-1176	Reporting Contact: Jonathan Pfohl
Sampler(s) Name, Affiliation (Print): J. Pfohl, MESCO	Billing Contact: Accounts Payable
Sampler(s) Signature:	Facility # (if required):

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

Requested Turnaround Times
Note : Rush requests subject to acceptance by the facility
✓ Standard
___ Expedited
Due ___/___/___

Lab Workorder: C604535

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,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn									Sample Comments
	MW-11 MS/MSD	12/14/06	2:10	Grab	Water	7	X	X									
	MW-5		10:00		Water	4	X	X									
	MW-10		10:45		Water	4	X	X									
	MW-SW-3		11:00		Water	4	X	X									
	MW-4R		11:40		Water	4	X	X									
	MW-9		12:20		Water	4	X	X									
	MW-SW-5		1:35		Water	4	X	X									
	MW-3		2:50		Water	4	X	X									
	MW-12D		3:40		Water	4	X	X									
	MW-12		4:10		Water	4	X	X									
	MW-7		4:45		Water	4	X	X									
	MW-15	12/15/06	7:30		Water	4	X	X									

<-- Total # of Containers

Sample Kit Prepared By: CARY	Date/Time: 11/29/06	Relinquished By:	Date/Time: 12/18/06 10:00	Received By:	Date/Time: 12/18 1000
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

W-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

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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

Client Name: Municipal Engineering Services (MU001)	Project Number: G06003.0
Address: P.O. Box 97	Project Name/Desc: Alexander Co. Closed LF
City/ST/Zip: Garner, NC 27529	PO # / Billing Info
Tel: (919) 772-5393 Fax: (919) 772-1176	Reporting Contact: Jonathan Pfohl
Sampler(s) Name, Affiliation (Print): T. Pfohl MESCO	Billing Contact: Accounts Payable
Sampler(s) Signature:	Facility # (if required)

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

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due __/__/__

Lab Workorder: C604535

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,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn									Sample Comments
	MW-8	12/15/06	8:30	Grab	Water	4	X	X									
	MW-17		9:35		Water	4	X	X									
	MW-13		10:50		Water	4	X	X									
	MW-6		11:30		Water	4	X	X									
	MW-14		12:10		Water	4	X	X									
	MW-2		1:30		Water	3 4	X	X									
	MW-1		2:05		Water	4	X	X									
	MW-1B		2:40		Water	4	X	X									
	MW-SW-4R		3:00		Water	4	X	X									
	MW-TB	ENCO FILL			Water	~~4~~ 2	X	~~X~~									
	MW-FB		9:40		Water	~~4~~ 2	X	~~X~~									
	EB		9:35		Water	~~4~~ 2	X	~~X~~									

<-- Total # of Containers

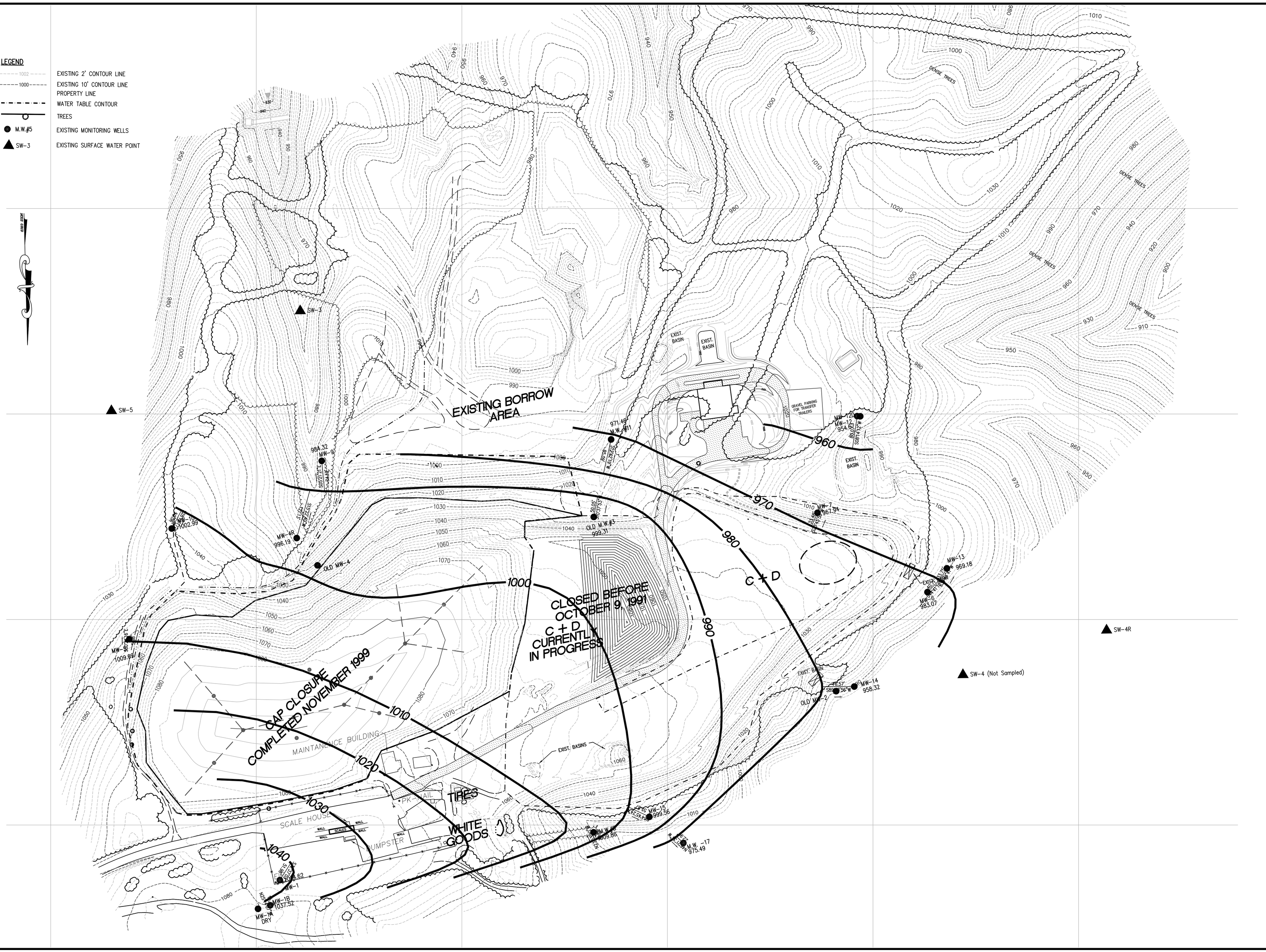
Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
CARY	11/29/06		12/18/06/10:00		12/18 1000
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

Rev ... dwater 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

pute arising ... Orange County Florida
TRIAL BY JURY IN ANY



Municipal Services Engineering Company, P.A.

P.O. BOX 97 GARNER, N.C. 27529 (919) 772-5393

P.O. BOX 349 BOONE, N.C. 28607 (828) 262-7767

ALEXANDER COUNTY
CONSTRUCTION AND DEMOLITION LANDFILL
ALEXANDER COUNTY
NORTH CAROLINA

DATE	BY	REV.	DESCRIPTION

SINGLE DAY POTENTIOMETRIC MAP
DECEMBER 14, 2006

SCALE:	1" = 100'
DATE:	5/23/02
DRWN. BY:	L. HAMPTON
CHKD. BY:	J. WOODIE
PROJECT NUMBER	G02052.6
DRAWING NO.	C1
SHEET NO.	3 OF

Laboratory Results

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

Friday, December 29, 2006

Municipal Engineering Services (MU001)

Attn: Jonathan Pfohl

P.O. Box 97

Garner, NC 27529

RE: Project Number: G06003.0, Project Name/Desc: Alexander Co. Closed LF
ENCO Workorder: C604535

Dear Jonathan Pfohl,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Monday, December 18, 2006.

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.

This data has been produced in accordance with NELAC standards (June, 2003). 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. 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 92.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: MW-11MS/MSD **Lab ID:** C604535-01
Sampled: 12/14/06 14:10 **Received:** 12/18/06 11:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	06/12/07	12/19/06 14:11	12/21/2006 09:47
EPA 8260B	12/28/06	12/22/06 12:54	12/23/2006 03:43

Client ID: MW-5 **Lab ID:** C604535-02
Sampled: 12/14/06 10:00 **Received:** 12/18/06 11:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	06/12/07	12/19/06 14:11	12/21/2006 10:10
EPA 8260B	12/28/06	12/22/06 12:54	12/23/2006 04:11

Client ID: MW-10 **Lab ID:** C604535-03
Sampled: 12/14/06 10:45 **Received:** 12/18/06 11:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	06/12/07	12/19/06 14:11	12/21/2006 10:17
EPA 8260B	12/28/06	12/22/06 12:54	12/23/2006 04:39

Client ID: SW-3 **Lab ID:** C604535-04
Sampled: 12/14/06 11:00 **Received:** 12/18/06 11:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	06/12/07	12/19/06 14:11	12/21/2006 10:24
EPA 8260B	12/28/06	12/22/06 12:54	12/23/2006 05:07

Client ID: MW-4R **Lab ID:** C604535-05
Sampled: 12/14/06 11:40 **Received:** 12/18/06 11:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	06/12/07	12/19/06 14:11	12/21/2006 10:31
EPA 8260B	12/28/06	12/22/06 12:54	12/23/2006 05:35

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Client ID: MW-9 **Lab ID:** C604535-06

Sampled: 12/14/06 12:20 **Received:** 12/18/06 11:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	06/12/07	12/19/06 14:11	12/21/2006 10:38
EPA 8260B	12/28/06	12/22/06 12:54	12/23/2006 06:02

Client ID: SW-5 **Lab ID:** C604535-07

Sampled: 12/14/06 13:35 **Received:** 12/18/06 11:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	06/12/07	12/19/06 14:11	12/21/2006 11:01
EPA 8260B	12/28/06	12/22/06 12:54	12/23/2006 06:30

Client ID: MW-3 **Lab ID:** C604535-08

Sampled: 12/14/06 14:50 **Received:** 12/18/06 11:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	06/12/07	12/19/06 14:11	12/21/2006 11:08
EPA 8260B	12/28/06	12/22/06 12:54	12/23/2006 14:40

Client ID: MW-12D **Lab ID:** C604535-09

Sampled: 12/15/06 15:40 **Received:** 12/18/06 11:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	06/13/07	12/19/06 14:11	12/21/2006 11:15
EPA 8260B	12/29/06	12/22/06 12:54	12/23/2006 15:06

Client ID: MW-12 **Lab ID:** C604535-10

Sampled: 12/14/06 16:10 **Received:** 12/18/06 11:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	06/12/07	12/19/06 14:11	12/21/2006 11:21
EPA 8260B	12/28/06	12/22/06 12:54	12/23/2006 15:32

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Client ID: MW-7 **Lab ID:** C604535-11

Sampled: 12/14/06 16:45 **Received:** 12/18/06 11:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	06/12/07	12/19/06 14:11	12/21/2006 11:28
EPA 8260B	12/28/06	12/22/06 12:54	12/23/2006 15:57

Client ID: MW-15 **Lab ID:** C604535-12

Sampled: 12/15/06 07:30 **Received:** 12/18/06 11:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	06/13/07	12/19/06 14:11	12/21/2006 11:35
EPA 8260B	12/29/06	12/23/06 10:12	12/24/2006 13:59

Client ID: MW-8 **Lab ID:** C604535-13

Sampled: 12/15/06 08:30 **Received:** 12/18/06 11:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	06/13/07	12/19/06 14:11	12/21/2006 11:42
EPA 8260B	12/29/06	12/23/06 10:12	12/24/2006 14:24

Client ID: MW-17 **Lab ID:** C604535-14

Sampled: 12/15/06 09:35 **Received:** 12/18/06 11:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	06/13/07	12/19/06 14:11	12/21/2006 11:49
EPA 8260B	12/29/06	12/23/06 10:12	12/24/2006 14:50

Client ID: MW-13 **Lab ID:** C604535-15

Sampled: 12/15/06 10:50 **Received:** 12/18/06 11:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	06/13/07	12/19/06 14:11	12/21/2006 11:56
EPA 8260B	12/29/06	12/23/06 10:12	12/24/2006 15:15

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Client ID: MW-6 **Lab ID:** C604535-16

Sampled: 12/15/06 11:30 **Received:** 12/18/06 11:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	06/13/07	12/19/06 14:11	12/21/2006 12:03
EPA 8260B	12/29/06	12/23/06 10:12	12/24/2006 15:41

Client ID: MW-14 **Lab ID:** C604535-17

Sampled: 12/15/06 12:10 **Received:** 12/18/06 11:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	06/13/07	12/19/06 14:11	12/21/2006 12:26
EPA 8260B	12/29/06	12/23/06 10:12	12/24/2006 16:07

Client ID: MW-2 **Lab ID:** C604535-18

Sampled: 12/15/06 13:30 **Received:** 12/18/06 11:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	06/13/07	12/19/06 14:11	12/21/2006 12:33
EPA 8260B	12/29/06	12/23/06 10:12	12/24/2006 16:32

Client ID: MW-1 **Lab ID:** C604535-19

Sampled: 12/15/06 14:05 **Received:** 12/18/06 11:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	06/13/07	12/19/06 14:11	12/21/2006 12:40
EPA 8260B	12/29/06	12/23/06 10:12	12/24/2006 16:58

Client ID: MW-1B **Lab ID:** C604535-20

Sampled: 12/15/06 14:40 **Received:** 12/18/06 11:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	06/13/07	12/19/06 14:11	12/21/2006 12:47
EPA 8260B	12/29/06	12/23/06 10:12	12/24/2006 17:24

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Client ID: SW-4R **Lab ID:** C604535-21

Sampled: 12/15/06 15:00 **Received:** 12/18/06 11:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	06/13/07	12/19/06 14:02	12/21/2006 13:36
EPA 8260B	12/29/06	12/23/06 10:12	12/24/2006 17:49

Client ID: TB **Lab ID:** C604535-22

Sampled: 12/15/06 00:00 **Received:** 12/18/06 11:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	12/29/06	12/23/06 10:12	12/24/2006 18:15

Client ID: FB **Lab ID:** C604535-23

Sampled: 12/15/06 09:40 **Received:** 12/18/06 11:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	12/29/06	12/23/06 10:12	12/24/2006 18:41

Client ID: EB **Lab ID:** C604535-24

Sampled: 12/15/06 09:35 **Received:** 12/18/06 11:45

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	12/29/06	12/23/06 10:12	12/24/2006 19:06

SAMPLE DETECTION SUMMARY

Client ID: MW-11MS/MSD **Lab ID:** C604535-01

Analyte	Results/Qual	NC SWS RL	Units	Method
1,1-Dichloroethane	1.1	5	ug/L	EPA 8260B
1,2-Dichloroethane	1.1	3	ug/L	EPA 8260B
1,4-Dichlorobenzene	7.5	3	ug/L	EPA 8260B
Barium	0.107	100	mg/L	EPA 6010B
Benzene	4.6	3	ug/L	EPA 8260B
Chlorobenzene	2.0	3	ug/L	EPA 8260B
Chloroethane	1.3	10	ug/L	EPA 8260B
cis-1,2-Dichloroethene	26	5	ug/L	EPA 8260B
Cobalt	0.117	10	mg/L	EPA 6010B
Nickel	0.0164	50	mg/L	EPA 6010B
Tetrachloroethene	1.1	3	ug/L	EPA 8260B
Trichloroethene	1.2	3	ug/L	EPA 8260B
Zinc	0.0325	10	mg/L	EPA 6010B

Client ID: MW-5 **Lab ID:** C604535-02

Analyte	Results/Qual	NC SWS RL	Units	Method
1,1-Dichloroethane	2.9	5	ug/L	EPA 8260B
1,4-Dichlorobenzene	1.2	3	ug/L	EPA 8260B
Barium	0.0708	100	mg/L	EPA 6010B
Benzene	2.8	3	ug/L	EPA 8260B
cis-1,2-Dichloroethene	6.0	5	ug/L	EPA 8260B

Client ID: MW-10 **Lab ID:** C604535-03

Analyte	Results/Qual	NC SWS RL	Units	Method
Barium	0.0597	100	mg/L	EPA 6010B
Cadmium	0.00100	1	mg/L	EPA 6010B
cis-1,2-Dichloroethene	1.2	5	ug/L	EPA 8260B
Copper	0.196	10	mg/L	EPA 6010B
Lead	0.0189	10	mg/L	EPA 6010B
Nickel	0.0104	50	mg/L	EPA 6010B
Zinc	0.252	10	mg/L	EPA 6010B

Client ID: SW-3 **Lab ID:** C604535-04

Analyte	Results/Qual	NC SWS RL	Units	Method
Barium	0.0300	100	mg/L	EPA 6010B
Cobalt	0.0241	10	mg/L	EPA 6010B

Client ID: MW-4R **Lab ID:** C604535-05

Analyte	Results/Qual	NC SWS RL	Units	Method
1,1-Dichloroethane	4.3	5	ug/L	EPA 8260B
1,4-Dichlorobenzene	3.3	3	ug/L	EPA 8260B
Barium	0.124	100	mg/L	EPA 6010B
Benzene	2.4	3	ug/L	EPA 8260B
Chlorobenzene	1.2	3	ug/L	EPA 8260B

Chloroethane	1.8	10	ug/L	EPA 8260B
cis-1,2-Dichloroethene	11	5	ug/L	EPA 8260B
Cobalt	0.178	10	mg/L	EPA 6010B

Client ID: **MW-9** **Lab ID:** **C604535-06**

Analyte	Results/Qual	NC SWS RL	Units	Method
1,1-Dichloroethane	1.3	5	ug/L	EPA 8260B
Barium	0.108	100	mg/L	EPA 6010B
cis-1,2-Dichloroethene	8.3	5	ug/L	EPA 8260B
Nickel	0.0124	50	mg/L	EPA 6010B

Client ID: **SW-5** **Lab ID:** **C604535-07**

Analyte	Results/Qual	NC SWS RL	Units	Method
1,1-Dichloroethane	1.3	5	ug/L	EPA 8260B
1,4-Dichlorobenzene	1.4	3	ug/L	EPA 8260B
Barium	0.135	100	mg/L	EPA 6010B
cis-1,2-Dichloroethene	4.8	5	ug/L	EPA 8260B
Cobalt	0.168	10	mg/L	EPA 6010B

Client ID: **MW-3** **Lab ID:** **C604535-08**

Analyte	Results/Qual	NC SWS RL	Units	Method
1,4-Dichlorobenzene	3.8	3	ug/L	EPA 8260B
Barium	0.0645	100	mg/L	EPA 6010B
Benzene	4.8	3	ug/L	EPA 8260B
Chlorobenzene	1.0	3	ug/L	EPA 8260B
cis-1,2-Dichloroethene	7.6	5	ug/L	EPA 8260B
Ethylbenzene	1.4	5	ug/L	EPA 8260B
m,p-Xylenes	6.4	NE	ug/L	EPA 8260B
Nickel	0.0204	50	mg/L	EPA 6010B
o-Xylene	2.4	NE	ug/L	EPA 8260B
Toluene	1.5	5	ug/L	EPA 8260B
Trichloroethene	1.0	3	ug/L	EPA 8260B
Zinc	0.0117	10	mg/L	EPA 6010B

Client ID: **MW-12D** **Lab ID:** **C604535-09**

Analyte	Results/Qual	NC SWS RL	Units	Method
Barium	0.0168	100	mg/L	EPA 6010B
Zinc	0.0156	10	mg/L	EPA 6010B

Client ID: **MW-12** **Lab ID:** **C604535-10**

Analyte	Results/Qual	NC SWS RL	Units	Method
1,1-Dichloroethane	3.7	5	ug/L	EPA 8260B
1,4-Dichlorobenzene	6.9	3	ug/L	EPA 8260B
Barium	0.103	100	mg/L	EPA 6010B
Benzene	6.3	3	ug/L	EPA 8260B
Chlorobenzene	1.5	3	ug/L	EPA 8260B
Chloroethane	2.0	10	ug/L	EPA 8260B
cis-1,2-Dichloroethene	9.1	5	ug/L	EPA 8260B
Tetrachloroethene	2.0	3	ug/L	EPA 8260B

Trichloroethene	2.4	3	ug/L	EPA 8260B

Client ID: **MW-7** **Lab ID:** **C604535-11**

Analyte	Results/Qual	NC SWS RL	Units	Method
1,1-Dichloroethane	3.7	5	ug/L	EPA 8260B
1,4-Dichlorobenzene	3.0	3	ug/L	EPA 8260B
Barium	0.0101	100	mg/L	EPA 6010B
Benzene	2.6	3	ug/L	EPA 8260B
Chlorobenzene	1.4	3	ug/L	EPA 8260B
cis-1,2-Dichloroethene	7.3	5	ug/L	EPA 8260B
Tetrachloroethene	1.2	3	ug/L	EPA 8260B
Trichloroethene	1.2	3	ug/L	EPA 8260B
Zinc	0.0101	10	mg/L	EPA 6010B

Client ID: **MW-15** **Lab ID:** **C604535-12**

Analyte	Results/Qual	NC SWS RL	Units	Method
1,1-Dichloroethane	4.6	5	ug/L	EPA 8260B
Barium	0.0225	100	mg/L	EPA 6010B
Benzene	2.2	3	ug/L	EPA 8260B
cis-1,2-Dichloroethene	3.5	5	ug/L	EPA 8260B

Client ID: **MW-8** **Lab ID:** **C604535-13**

Analyte	Results/Qual	NC SWS RL	Units	Method
Barium	0.0633	100	mg/L	EPA 6010B
cis-1,2-Dichloroethene	3.5	5	ug/L	EPA 8260B
Copper	0.0167	10	mg/L	EPA 6010B
Toluene	6.5	5	ug/L	EPA 8260B
Zinc	0.0189	10	mg/L	EPA 6010B

Client ID: **MW-17** **Lab ID:** **C604535-14**

Analyte	Results/Qual	NC SWS RL	Units	Method
1,1-Dichloroethane	3.2	5	ug/L	EPA 8260B
Barium	0.0579	100	mg/L	EPA 6010B
Benzene	1.1	3	ug/L	EPA 8260B
cis-1,2-Dichloroethene	2.6	5	ug/L	EPA 8260B
Cobalt	0.0199	10	mg/L	EPA 6010B
Toluene	2.0	5	ug/L	EPA 8260B
Zinc	0.0100	10	mg/L	EPA 6010B

Client ID: **MW-13** **Lab ID:** **C604535-15**

Analyte	Results/Qual	NC SWS RL	Units	Method
Barium	0.0321	100	mg/L	EPA 6010B
Nickel	0.0130	50	mg/L	EPA 6010B
Zinc	0.0112	10	mg/L	EPA 6010B

Client ID: **MW-6** **Lab ID:** **C604535-16**

Analyte	Results/Qual	NC SWS RL	Units	Method
Barium	0.0426	100	mg/L	EPA 6010B
Cobalt	0.0241	10	mg/L	EPA 6010B

Zinc	0.0162	10	mg/L	EPA 6010B

Client ID: **MW-14** **Lab ID:** **C604535-17**

Analyte	Results/Qual	NC SWS RL	Units	Method
1,1-Dichloroethane	1.4	5	ug/L	EPA 8260B
1,4-Dichlorobenzene	4.0	3	ug/L	EPA 8260B
Barium	0.107	100	mg/L	EPA 6010B
Benzene	1.9	3	ug/L	EPA 8260B
Chlorobenzene	1.5	3	ug/L	EPA 8260B
Chloroethane	1.5	10	ug/L	EPA 8260B
cis-1,2-Dichloroethene	9.3	5	ug/L	EPA 8260B
Cobalt	0.238	10	mg/L	EPA 6010B
Nickel	0.0121	50	mg/L	EPA 6010B
Zinc	0.0209	10	mg/L	EPA 6010B

Client ID: **MW-2** **Lab ID:** **C604535-18**

Analyte	Results/Qual	NC SWS RL	Units	Method
1,1-Dichloroethane	2.0	5	ug/L	EPA 8260B
1,4-Dichlorobenzene	5.0	3	ug/L	EPA 8260B
Barium	0.151	100	mg/L	EPA 6010B
Benzene	3.0	3	ug/L	EPA 8260B
Chlorobenzene	1.8	3	ug/L	EPA 8260B
Chloroethane	1.9	10	ug/L	EPA 8260B
cis-1,2-Dichloroethene	13	5	ug/L	EPA 8260B
Cobalt	0.448	10	mg/L	EPA 6010B
Trichloroethene	1.9	3	ug/L	EPA 8260B
Zinc	0.0157	10	mg/L	EPA 6010B

Client ID: **MW-1** **Lab ID:** **C604535-19**

Analyte	Results/Qual	NC SWS RL	Units	Method
1,1-Dichloroethane	2.1	5	ug/L	EPA 8260B
1,4-Dichlorobenzene	1.3	3	ug/L	EPA 8260B
Barium	0.0360	100	mg/L	EPA 6010B
Benzene	4.2	3	ug/L	EPA 8260B
cis-1,2-Dichloroethene	6.6	5	ug/L	EPA 8260B
Cobalt	0.0186	10	mg/L	EPA 6010B
Toluene	2.0	5	ug/L	EPA 8260B
Zinc	0.0103	10	mg/L	EPA 6010B

Client ID: **MW-1B** **Lab ID:** **C604535-20**

Analyte	Results/Qual	NC SWS RL	Units	Method
1,1-Dichloroethane	1.6	5	ug/L	EPA 8260B
1,4-Dichlorobenzene	1.9	3	ug/L	EPA 8260B
Barium	0.0666	100	mg/L	EPA 6010B
Benzene	1.3	3	ug/L	EPA 8260B
cis-1,2-Dichloroethene	3.3	5	ug/L	EPA 8260B
Cobalt	0.0698	10	mg/L	EPA 6010B
m,p-Xylenes	3.7	NE	ug/L	EPA 8260B

Nickel	0.0103	50	mg/L	EPA 6010B
o-Xylene	1.8	NE	ug/L	EPA 8260B
Zinc	0.0151	10	mg/L	EPA 6010B

Client ID: **SW-4R** **Lab ID:** **C604535-21**

Analyte	Results/Qual	NC SWS RL	Units	Method
Barium	0.0161	100	mg/L	EPA 6010B

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ANALYTICAL REPORT

Sample ID:	MW-11MS/MSD	Project:	Alexander Co. Closed LF
Lab #:	C604535-01	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/23/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L22015		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWS RL	Units
1,1,1,2-Tetrachloroethane	630-20-6	1.0	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	1.0	U	1.0	5	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	1.0	U	1.0	3	ug/L
1,1,2-Trichloroethane	79-00-5	1.0	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	**1.1**		1.0	5	ug/L
1,1-Dichloroethene	75-35-4	1.0	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	1.0	U	1.0	8	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	1.0	U	1.0	13	ug/L
1,2-Dibromoethane	106-93-4	1.0	U	1.0	3	ug/L
1,2-Dichlorobenzene	95-50-1	1.0	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	**1.1**		1.0	3	ug/L
1,2-Dichloropropane	78-87-5	1.0	U	1.0	3	ug/L
1,4-Dichlorobenzene	106-46-7	**7.5**		1.0	3	ug/L
2-Butanone	78-93-3	5.0	U	5.0	100	ug/L
2-Hexanone	591-78-6	5.0	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	5.0	U	5.0	100	ug/L
Acetone	67-64-1	5.0	U	5.0	100	ug/L
Acrylonitrile	107-13-1	5.0	U	5.0	200	ug/L
Benzene	71-43-2	**4.6**		1.0	3	ug/L
Bromochloromethane	74-97-5	1.0	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.40	U	0.40		ug/L
Bromoform	75-25-2	1.0	U	1.0	3	ug/L
Bromomethane	74-83-9	1.0	U	1.0	10	ug/L
Carbon disulfide	75-15-0	5.0	U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	1.0	U	1.0	5.5	ug/L
Chlorobenzene	108-90-7	**2.0**		1.0	3	ug/L
Chloroethane	75-00-3	**1.3**		1.0	10	ug/L
Chloroform	67-66-3	1.0	U	1.0	5	ug/L
Chloromethane	74-87-3	1.0	U	1.0	5.5	ug/L
cis-1,2-Dichloroethene	156-59-2	**26**		1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20	U	0.20	5.5	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromomethane	74-95-3	1.0	U	1.0	10	ug/L
Ethylbenzene	100-41-4	1.0	U	1.0	5	ug/L
Iodomethane	74-88-4	2.0	U	2.0	10	ug/L
m,p-Xylenes	108-38-3/106-42-3	2.0	U	2.0	NE	ug/L
Methylene chloride	75-09-2	2.0	U	2.0		ug/L
o-Xylene	95-47-6	1.0	U	1.0	NE	ug/L
Styrene	100-42-5	1.0	U	1.0	10	ug/L

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ANALYTICAL REPORT

Sample ID:	MW-11MS/MSD	Project:	Alexander Co. Closed LF
Lab #:	C604535-01	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/23/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L22015		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWS RL	Units
Tetrachloroethene	127-18-4	**1.1**	1.0	3	ug/L
Toluene	108-88-3	1.0 U	1.0	5	ug/L
trans-1,2-Dichloroethene	156-60-5	1.0 U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20 U	0.20	5.5	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	1.0 U	1.0	100	ug/L
Trichloroethene	79-01-6	**1.2**	1.0	3	ug/L
Trichlorofluoromethane	75-69-4	1.0 U	1.0	5	ug/L
Vinyl acetate	108-05-4	2.0 U	2.0	50	ug/L
Vinyl chloride	75-01-4	1.0 U	1.0	5.5	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	57	50.0	114 %	70-130
Dibromofluoromethane	1868-53-7	42	50.0	84 %	73-138
Toluene-d8	2037-26-5	55	50.0	110 %	77-118

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ANALYTICAL REPORT

Sample ID: MW-11MS/MSD
Lab #: C604535-01

Project: Alexander Co. Closed LF
Work Order #: C604535
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results		NC SWS RL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.0100 U	0.0100	6	mg/L	EPA 6010B	EPA 3005A	6L19021
Arsenic	7440-38-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Barium	7440-39-3	**0.107**	0.0100	100	mg/L	EPA 6010B	EPA 3005A	6L19021
Beryllium	7440-41-7	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19021
Cadmium	7440-43-9	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19021
Chromium	7440-47-3	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Cobalt	7440-48-4	**0.117**	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Copper	7440-50-8	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Lead	7439-92-1	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Nickel	7440-02-0	**0.0164**	0.0100	50	mg/L	EPA 6010B	EPA 3005A	6L19021
Selenium	7782-49-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Silver	7440-22-4	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Thallium	7440-28-0	0.0100 U	0.0100	5.5	mg/L	EPA 6010B	EPA 3005A	6L19021
Vanadium	7440-62-2	0.0100 U	0.0100	25	mg/L	EPA 6010B	EPA 3005A	6L19021
Zinc	7440-66-6	**0.0325**	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021

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ANALYTICAL REPORT

Sample ID:	MW-5	Project:	Alexander Co. Closed LF
Lab #:	C604535-02	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/23/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L22015		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWS RL	Units
1,1,1,2-Tetrachloroethane	630-20-6	1.0	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	1.0	U	1.0	5	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	1.0	U	1.0	3	ug/L
1,1,2-Trichloroethane	79-00-5	1.0	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	**2.9**		1.0	5	ug/L
1,1-Dichloroethene	75-35-4	1.0	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	1.0	U	1.0	8	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	1.0	U	1.0	13	ug/L
1,2-Dibromoethane	106-93-4	1.0	U	1.0	3	ug/L
1,2-Dichlorobenzene	95-50-1	1.0	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	1.0	U	1.0	3	ug/L
1,2-Dichloropropane	78-87-5	1.0	U	1.0	3	ug/L
1,4-Dichlorobenzene	106-46-7	**1.2**		1.0	3	ug/L
2-Butanone	78-93-3	5.0	U	5.0	100	ug/L
2-Hexanone	591-78-6	5.0	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	5.0	U	5.0	100	ug/L
Acetone	67-64-1	5.0	U	5.0	100	ug/L
Acrylonitrile	107-13-1	5.0	U	5.0	200	ug/L
Benzene	71-43-2	**2.8**		1.0	3	ug/L
Bromochloromethane	74-97-5	1.0	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.40	U	0.40		ug/L
Bromoform	75-25-2	1.0	U	1.0	3	ug/L
Bromomethane	74-83-9	1.0	U	1.0	10	ug/L
Carbon disulfide	75-15-0	5.0	U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	1.0	U	1.0	5.5	ug/L
Chlorobenzene	108-90-7	1.0	U	1.0	3	ug/L
Chloroethane	75-00-3	1.0	U	1.0	10	ug/L
Chloroform	67-66-3	1.0	U	1.0	5	ug/L
Chloromethane	74-87-3	1.0	U	1.0	5.5	ug/L
cis-1,2-Dichloroethene	156-59-2	**6.0**		1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20	U	0.20	5.5	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromomethane	74-95-3	1.0	U	1.0	10	ug/L
Ethylbenzene	100-41-4	1.0	U	1.0	5	ug/L
Iodomethane	74-88-4	2.0	U	2.0	10	ug/L
m,p-Xylenes	108-38-3/106-42-3	2.0	U	2.0	NE	ug/L
Methylene chloride	75-09-2	2.0	U	2.0		ug/L
o-Xylene	95-47-6	1.0	U	1.0	NE	ug/L
Styrene	100-42-5	1.0	U	1.0	10	ug/L

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ANALYTICAL REPORT

Sample ID:	MW-5	Project:	Alexander Co. Closed LF
Lab #:	C604535-02	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/23/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L22015		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results			NC SWS RL	Units
Tetrachloroethene	127-18-4	1.0	U	1.0	3	ug/L
Toluene	108-88-3	1.0	U	1.0	5	ug/L
trans-1,2-Dichloroethene	156-60-5	1.0	U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	5.5	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	1.0	U	1.0	100	ug/L
Trichloroethene	79-01-6	1.0	U	1.0	3	ug/L
Trichlorofluoromethane	75-69-4	1.0	U	1.0	5	ug/L
Vinyl acetate	108-05-4	2.0	U	2.0	50	ug/L
Vinyl chloride	75-01-4	1.0	U	1.0	5.5	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	58	50.0	117 %	70-130
Dibromofluoromethane	1868-53-7	43	50.0	86 %	73-138
Toluene-d8	2037-26-5	55	50.0	109 %	77-118

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ANALYTICAL REPORT

Sample ID:	MW-5	Project:	Alexander Co. Closed LF
Lab #:	C604535-02	Work Order #:	C604535
		Matrix:	Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results		NC SWS RL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.0100 U	0.0100	6	mg/L	EPA 6010B	EPA 3005A	6L19021
Arsenic	7440-38-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Barium	7440-39-3	**0.0708**	0.0100	100	mg/L	EPA 6010B	EPA 3005A	6L19021
Beryllium	7440-41-7	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19021
Cadmium	7440-43-9	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19021
Chromium	7440-47-3	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Cobalt	7440-48-4	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Copper	7440-50-8	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Lead	7439-92-1	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Nickel	7440-02-0	0.0100 U	0.0100	50	mg/L	EPA 6010B	EPA 3005A	6L19021
Selenium	7782-49-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Silver	7440-22-4	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Thallium	7440-28-0	0.0100 U	0.0100	5.5	mg/L	EPA 6010B	EPA 3005A	6L19021
Vanadium	7440-62-2	0.0100 U	0.0100	25	mg/L	EPA 6010B	EPA 3005A	6L19021
Zinc	7440-66-6	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021

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ANALYTICAL REPORT

Sample ID:	MW-10	Project:	Alexander Co. Closed LF
Lab #:	C604535-03	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/23/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L22015		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWS RL	Units
1,1,1,2-Tetrachloroethane	630-20-6	1.0	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	1.0	U	1.0	5	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	1.0	U	1.0	3	ug/L
1,1,2-Trichloroethane	79-00-5	1.0	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	1.0	U	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	1.0	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	1.0	U	1.0	8	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	1.0	U	1.0	13	ug/L
1,2-Dibromoethane	106-93-4	1.0	U	1.0	3	ug/L
1,2-Dichlorobenzene	95-50-1	1.0	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	1.0	U	1.0	3	ug/L
1,2-Dichloropropane	78-87-5	1.0	U	1.0	3	ug/L
1,4-Dichlorobenzene	106-46-7	1.0	U	1.0	3	ug/L
2-Butanone	78-93-3	5.0	U	5.0	100	ug/L
2-Hexanone	591-78-6	5.0	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	5.0	U	5.0	100	ug/L
Acetone	67-64-1	5.0	U	5.0	100	ug/L
Acrylonitrile	107-13-1	5.0	U	5.0	200	ug/L
Benzene	71-43-2	1.0	U	1.0	3	ug/L
Bromochloromethane	74-97-5	1.0	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.40	U	0.40		ug/L
Bromoform	75-25-2	1.0	U	1.0	3	ug/L
Bromomethane	74-83-9	1.0	U	1.0	10	ug/L
Carbon disulfide	75-15-0	5.0	U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	1.0	U	1.0	5.5	ug/L
Chlorobenzene	108-90-7	1.0	U	1.0	3	ug/L
Chloroethane	75-00-3	1.0	U	1.0	10	ug/L
Chloroform	67-66-3	1.0	U	1.0	5	ug/L
Chloromethane	74-87-3	1.0	U	1.0	5.5	ug/L
cis-1,2-Dichloroethene	156-59-2	**1.2**		1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20	U	0.20	5.5	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromomethane	74-95-3	1.0	U	1.0	10	ug/L
Ethylbenzene	100-41-4	1.0	U	1.0	5	ug/L
Iodomethane	74-88-4	2.0	U	2.0	10	ug/L
m,p-Xylenes	108-38-3/106-42-3	2.0	U	2.0	NE	ug/L
Methylene chloride	75-09-2	2.0	U	2.0		ug/L
o-Xylene	95-47-6	1.0	U	1.0	NE	ug/L
Styrene	100-42-5	1.0	U	1.0	10	ug/L

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ANALYTICAL REPORT

Sample ID:	MW-10	Project:	Alexander Co. Closed LF
Lab #:	C604535-03	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/23/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L22015		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results			NC SWS RL	Units
Tetrachloroethene	127-18-4	1.0	U	1.0	3	ug/L
Toluene	108-88-3	1.0	U	1.0	5	ug/L
trans-1,2-Dichloroethene	156-60-5	1.0	U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	5.5	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	1.0	U	1.0	100	ug/L
Trichloroethene	79-01-6	1.0	U	1.0	3	ug/L
Trichlorofluoromethane	75-69-4	1.0	U	1.0	5	ug/L
Vinyl acetate	108-05-4	2.0	U	2.0	50	ug/L
Vinyl chloride	75-01-4	1.0	U	1.0	5.5	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	59	50.0	118 %	70-130
Dibromofluoromethane	1868-53-7	43	50.0	85 %	73-138
Toluene-d8	2037-26-5	55	50.0	110 %	77-118

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ANALYTICAL REPORT

Sample ID: MW-10
Lab #: C604535-03

Project: Alexander Co. Closed LF
Work Order #: C604535
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results		NC SWS RL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.0100 U	0.0100	6	mg/L	EPA 6010B	EPA 3005A	6L19021
Arsenic	7440-38-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Barium	7440-39-3	**0.0597**	0.0100	100	mg/L	EPA 6010B	EPA 3005A	6L19021
Beryllium	7440-41-7	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19021
Cadmium	7440-43-9	**0.00100**	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19021
Chromium	7440-47-3	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Cobalt	7440-48-4	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Copper	7440-50-8	**0.196**	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Lead	7439-92-1	**0.0189**	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Nickel	7440-02-0	**0.0104**	0.0100	50	mg/L	EPA 6010B	EPA 3005A	6L19021
Selenium	7782-49-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Silver	7440-22-4	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Thallium	7440-28-0	0.0100 U	0.0100	5.5	mg/L	EPA 6010B	EPA 3005A	6L19021
Vanadium	7440-62-2	0.0100 U	0.0100	25	mg/L	EPA 6010B	EPA 3005A	6L19021
Zinc	7440-66-6	**0.252**	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021

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ANALYTICAL REPORT

Sample ID:	SW-3	Project:	Alexander Co. Closed LF
Lab #:	C604535-04	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/23/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L22015		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results			NC SWS RL	Units
1,1,1,2-Tetrachloroethane	630-20-6	1.0	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	1.0	U	1.0	5	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	1.0	U	1.0	3	ug/L
1,1,2-Trichloroethane	79-00-5	1.0	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	1.0	U	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	1.0	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	1.0	U	1.0	8	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	1.0	U	1.0	13	ug/L
1,2-Dibromoethane	106-93-4	1.0	U	1.0	3	ug/L
1,2-Dichlorobenzene	95-50-1	1.0	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	1.0	U	1.0	3	ug/L
1,2-Dichloropropane	78-87-5	1.0	U	1.0	3	ug/L
1,4-Dichlorobenzene	106-46-7	1.0	U	1.0	3	ug/L
2-Butanone	78-93-3	5.0	U	5.0	100	ug/L
2-Hexanone	591-78-6	5.0	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	5.0	U	5.0	100	ug/L
Acetone	67-64-1	5.0	U	5.0	100	ug/L
Acrylonitrile	107-13-1	5.0	U	5.0	200	ug/L
Benzene	71-43-2	1.0	U	1.0	3	ug/L
Bromochloromethane	74-97-5	1.0	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.40	U	0.40		ug/L
Bromoform	75-25-2	1.0	U	1.0	3	ug/L
Bromomethane	74-83-9	1.0	U	1.0	10	ug/L
Carbon disulfide	75-15-0	5.0	U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	1.0	U	1.0	5.5	ug/L
Chlorobenzene	108-90-7	1.0	U	1.0	3	ug/L
Chloroethane	75-00-3	1.0	U	1.0	10	ug/L
Chloroform	67-66-3	1.0	U	1.0	5	ug/L
Chloromethane	74-87-3	1.0	U	1.0	5.5	ug/L
cis-1,2-Dichloroethene	156-59-2	1.0	U	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20	U	0.20	5.5	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromomethane	74-95-3	1.0	U	1.0	10	ug/L
Ethylbenzene	100-41-4	1.0	U	1.0	5	ug/L
Iodomethane	74-88-4	2.0	U	2.0	10	ug/L
m,p-Xylenes	108-38-3/106-42-3	2.0	U	2.0	NE	ug/L
Methylene chloride	75-09-2	2.0	U	2.0		ug/L
o-Xylene	95-47-6	1.0	U	1.0	NE	ug/L
Styrene	100-42-5	1.0	U	1.0	10	ug/L

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ANALYTICAL REPORT

Sample ID:	SW-3	Project:	Alexander Co. Closed LF
Lab #:	C604535-04	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/23/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L22015		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results			NC SWS RL	Units
Tetrachloroethene	127-18-4	1.0	U	1.0	3	ug/L
Toluene	108-88-3	1.0	U	1.0	5	ug/L
trans-1,2-Dichloroethene	156-60-5	1.0	U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	5.5	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	1.0	U	1.0	100	ug/L
Trichloroethene	79-01-6	1.0	U	1.0	3	ug/L
Trichlorofluoromethane	75-69-4	1.0	U	1.0	5	ug/L
Vinyl acetate	108-05-4	2.0	U	2.0	50	ug/L
Vinyl chloride	75-01-4	1.0	U	1.0	5.5	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	58	50.0	115 %	70-130
Dibromofluoromethane	1868-53-7	42	50.0	85 %	73-138
Toluene-d8	2037-26-5	56	50.0	111 %	77-118

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ANALYTICAL REPORT

Sample ID:	SW-3	Project:	Alexander Co. Closed LF
Lab #:	C604535-04	Work Order #:	C604535
		Matrix:	Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results		NC SWS RL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.0100 U	0.0100	6	mg/L	EPA 6010B	EPA 3005A	6L19021
Arsenic	7440-38-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Barium	7440-39-3	**0.0300**	0.0100	100	mg/L	EPA 6010B	EPA 3005A	6L19021
Beryllium	7440-41-7	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19021
Cadmium	7440-43-9	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19021
Chromium	7440-47-3	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Cobalt	7440-48-4	**0.0241**	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Copper	7440-50-8	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Lead	7439-92-1	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Nickel	7440-02-0	0.0100 U	0.0100	50	mg/L	EPA 6010B	EPA 3005A	6L19021
Selenium	7782-49-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Silver	7440-22-4	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Thallium	7440-28-0	0.0100 U	0.0100	5.5	mg/L	EPA 6010B	EPA 3005A	6L19021
Vanadium	7440-62-2	0.0100 U	0.0100	25	mg/L	EPA 6010B	EPA 3005A	6L19021
Zinc	7440-66-6	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021

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ANALYTICAL REPORT

Sample ID:	MW-4R	Project:	Alexander Co. Closed LF
Lab #:	C604535-05	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/23/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L22015		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWS RL	Units
1,1,1,2-Tetrachloroethane	630-20-6	1.0 U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	1.0 U	1.0	5	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	1.0 U	1.0	3	ug/L
1,1,2-Trichloroethane	79-00-5	1.0 U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	**4.3**	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	1.0 U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	1.0 U	1.0	8	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	1.0 U	1.0	13	ug/L
1,2-Dibromoethane	106-93-4	1.0 U	1.0	3	ug/L
1,2-Dichlorobenzene	95-50-1	1.0 U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	1.0 U	1.0	3	ug/L
1,2-Dichloropropane	78-87-5	1.0 U	1.0	3	ug/L
1,4-Dichlorobenzene	106-46-7	**3.3**	1.0	3	ug/L
2-Butanone	78-93-3	5.0 U	5.0	100	ug/L
2-Hexanone	591-78-6	5.0 U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	5.0 U	5.0	100	ug/L
Acetone	67-64-1	5.0 U	5.0	100	ug/L
Acrylonitrile	107-13-1	5.0 U	5.0	200	ug/L
Benzene	71-43-2	**2.4**	1.0	3	ug/L
Bromochloromethane	74-97-5	1.0 U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.40 U	0.40		ug/L
Bromoform	75-25-2	1.0 U	1.0	3	ug/L
Bromomethane	74-83-9	1.0 U	1.0	10	ug/L
Carbon disulfide	75-15-0	5.0 U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	1.0 U	1.0	5.5	ug/L
Chlorobenzene	108-90-7	**1.2**	1.0	3	ug/L
Chloroethane	75-00-3	**1.8**	1.0	10	ug/L
Chloroform	67-66-3	1.0 U	1.0	5	ug/L
Chloromethane	74-87-3	1.0 U	1.0	5.5	ug/L
cis-1,2-Dichloroethene	156-59-2	**11**	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20 U	0.20	5.5	ug/L
Dibromochloromethane	124-48-1	1.0 U	1.0	3	ug/L
Dibromochloromethane	124-48-1	1.0 U	1.0	3	ug/L
Dibromomethane	74-95-3	1.0 U	1.0	10	ug/L
Ethylbenzene	100-41-4	1.0 U	1.0	5	ug/L
Iodomethane	74-88-4	2.0 U	2.0	10	ug/L
m,p-Xylenes	108-38-3/106-42-3	2.0 U	2.0	NE	ug/L
Methylene chloride	75-09-2	2.0 U	2.0		ug/L
o-Xylene	95-47-6	1.0 U	1.0	NE	ug/L
Styrene	100-42-5	1.0 U	1.0	10	ug/L

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ANALYTICAL REPORT

Sample ID:	MW-4R	Project:	Alexander Co. Closed LF
Lab #:	C604535-05	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/23/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L22015		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results			NC SWS RL	Units
Tetrachloroethene	127-18-4	1.0	U	1.0	3	ug/L
Toluene	108-88-3	1.0	U	1.0	5	ug/L
trans-1,2-Dichloroethene	156-60-5	1.0	U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	5.5	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	1.0	U	1.0	100	ug/L
Trichloroethene	79-01-6	1.0	U	1.0	3	ug/L
Trichlorofluoromethane	75-69-4	1.0	U	1.0	5	ug/L
Vinyl acetate	108-05-4	2.0	U	2.0	50	ug/L
Vinyl chloride	75-01-4	1.0	U	1.0	5.5	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	59	50.0	117 %	70-130
Dibromofluoromethane	1868-53-7	43	50.0	86 %	73-138
Toluene-d8	2037-26-5	55	50.0	111 %	77-118

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ANALYTICAL REPORT

Sample ID:	MW-4R	Project:	Alexander Co. Closed LF
Lab #:	C604535-05	Work Order #:	C604535
		Matrix:	Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results		NC SWS RL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.0100 U	0.0100	6	mg/L	EPA 6010B	EPA 3005A	6L19021
Arsenic	7440-38-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Barium	7440-39-3	**0.124**	0.0100	100	mg/L	EPA 6010B	EPA 3005A	6L19021
Beryllium	7440-41-7	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19021
Cadmium	7440-43-9	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19021
Chromium	7440-47-3	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Cobalt	7440-48-4	**0.178**	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Copper	7440-50-8	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Lead	7439-92-1	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Nickel	7440-02-0	0.0100 U	0.0100	50	mg/L	EPA 6010B	EPA 3005A	6L19021
Selenium	7782-49-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Silver	7440-22-4	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Thallium	7440-28-0	0.0100 U	0.0100	5.5	mg/L	EPA 6010B	EPA 3005A	6L19021
Vanadium	7440-62-2	0.0100 U	0.0100	25	mg/L	EPA 6010B	EPA 3005A	6L19021
Zinc	7440-66-6	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021

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ANALYTICAL REPORT

Sample ID:	MW-9	Project:	Alexander Co. Closed LF
Lab #:	C604535-06	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/23/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L22015		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWS RL	Units
1,1,1,2-Tetrachloroethane	630-20-6	1.0	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	1.0	U	1.0	5	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	1.0	U	1.0	3	ug/L
1,1,2-Trichloroethane	79-00-5	1.0	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	**1.3**		1.0	5	ug/L
1,1-Dichloroethene	75-35-4	1.0	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	1.0	U	1.0	8	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	1.0	U	1.0	13	ug/L
1,2-Dibromoethane	106-93-4	1.0	U	1.0	3	ug/L
1,2-Dichlorobenzene	95-50-1	1.0	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	1.0	U	1.0	3	ug/L
1,2-Dichloropropane	78-87-5	1.0	U	1.0	3	ug/L
1,4-Dichlorobenzene	106-46-7	1.0	U	1.0	3	ug/L
2-Butanone	78-93-3	5.0	U	5.0	100	ug/L
2-Hexanone	591-78-6	5.0	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	5.0	U	5.0	100	ug/L
Acetone	67-64-1	5.0	U	5.0	100	ug/L
Acrylonitrile	107-13-1	5.0	U	5.0	200	ug/L
Benzene	71-43-2	1.0	U	1.0	3	ug/L
Bromochloromethane	74-97-5	1.0	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.40	U	0.40		ug/L
Bromoform	75-25-2	1.0	U	1.0	3	ug/L
Bromomethane	74-83-9	1.0	U	1.0	10	ug/L
Carbon disulfide	75-15-0	5.0	U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	1.0	U	1.0	5.5	ug/L
Chlorobenzene	108-90-7	1.0	U	1.0	3	ug/L
Chloroethane	75-00-3	1.0	U	1.0	10	ug/L
Chloroform	67-66-3	1.0	U	1.0	5	ug/L
Chloromethane	74-87-3	1.0	U	1.0	5.5	ug/L
cis-1,2-Dichloroethene	156-59-2	**8.3**		1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20	U	0.20	5.5	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromomethane	74-95-3	1.0	U	1.0	10	ug/L
Ethylbenzene	100-41-4	1.0	U	1.0	5	ug/L
Iodomethane	74-88-4	2.0	U	2.0	10	ug/L
m,p-Xylenes	108-38-3/106-42-3	2.0	U	2.0	NE	ug/L
Methylene chloride	75-09-2	2.0	U	2.0		ug/L
o-Xylene	95-47-6	1.0	U	1.0	NE	ug/L
Styrene	100-42-5	1.0	U	1.0	10	ug/L

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ANALYTICAL REPORT

Sample ID:	MW-9	Project:	Alexander Co. Closed LF
Lab #:	C604535-06	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/23/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L22015		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results			NC SWS RL	Units
Tetrachloroethene	127-18-4	1.0	U	1.0	3	ug/L
Toluene	108-88-3	1.0	U	1.0	5	ug/L
trans-1,2-Dichloroethene	156-60-5	1.0	U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	5.5	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	1.0	U	1.0	100	ug/L
Trichloroethene	79-01-6	1.0	U	1.0	3	ug/L
Trichlorofluoromethane	75-69-4	1.0	U	1.0	5	ug/L
Vinyl acetate	108-05-4	2.0	U	2.0	50	ug/L
Vinyl chloride	75-01-4	1.0	U	1.0	5.5	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	57	50.0	114 %	70-130
Dibromofluoromethane	1868-53-7	42	50.0	85 %	73-138
Toluene-d8	2037-26-5	55	50.0	110 %	77-118

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ANALYTICAL REPORT

Sample ID: MW-9
Lab #: C604535-06

Project: Alexander Co. Closed LF
Work Order #: C604535
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results		NC SWS RL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.0100 U	0.0100	6	mg/L	EPA 6010B	EPA 3005A	6L19021
Arsenic	7440-38-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Barium	7440-39-3	**0.108**	0.0100	100	mg/L	EPA 6010B	EPA 3005A	6L19021
Beryllium	7440-41-7	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19021
Cadmium	7440-43-9	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19021
Chromium	7440-47-3	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Cobalt	7440-48-4	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Copper	7440-50-8	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Lead	7439-92-1	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Nickel	7440-02-0	**0.0124**	0.0100	50	mg/L	EPA 6010B	EPA 3005A	6L19021
Selenium	7782-49-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Silver	7440-22-4	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Thallium	7440-28-0	0.0100 U	0.0100	5.5	mg/L	EPA 6010B	EPA 3005A	6L19021
Vanadium	7440-62-2	0.0100 U	0.0100	25	mg/L	EPA 6010B	EPA 3005A	6L19021
Zinc	7440-66-6	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021

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ANALYTICAL REPORT

Sample ID:	SW-5	Project:	Alexander Co. Closed LF
Lab #:	C604535-07	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/23/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L22015		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWS RL	Units
1,1,1,2-Tetrachloroethane	630-20-6	1.0 U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	1.0 U	1.0	5	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	1.0 U	1.0	3	ug/L
1,1,2-Trichloroethane	79-00-5	1.0 U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	**1.3**	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	1.0 U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	1.0 U	1.0	8	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	1.0 U	1.0	13	ug/L
1,2-Dibromoethane	106-93-4	1.0 U	1.0	3	ug/L
1,2-Dichlorobenzene	95-50-1	1.0 U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	1.0 U	1.0	3	ug/L
1,2-Dichloropropane	78-87-5	1.0 U	1.0	3	ug/L
1,4-Dichlorobenzene	106-46-7	**1.4**	1.0	3	ug/L
2-Butanone	78-93-3	5.0 U	5.0	100	ug/L
2-Hexanone	591-78-6	5.0 U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	5.0 U	5.0	100	ug/L
Acetone	67-64-1	5.0 U	5.0	100	ug/L
Acrylonitrile	107-13-1	5.0 U	5.0	200	ug/L
Benzene	71-43-2	1.0 U	1.0	3	ug/L
Bromochloromethane	74-97-5	1.0 U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.40 U	0.40		ug/L
Bromoform	75-25-2	1.0 U	1.0	3	ug/L
Bromomethane	74-83-9	1.0 U	1.0	10	ug/L
Carbon disulfide	75-15-0	5.0 U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	1.0 U	1.0	5.5	ug/L
Chlorobenzene	108-90-7	1.0 U	1.0	3	ug/L
Chloroethane	75-00-3	1.0 U	1.0	10	ug/L
Chloroform	67-66-3	1.0 U	1.0	5	ug/L
Chloromethane	74-87-3	1.0 U	1.0	5.5	ug/L
cis-1,2-Dichloroethene	156-59-2	**4.8**	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20 U	0.20	5.5	ug/L
Dibromochloromethane	124-48-1	1.0 U	1.0	3	ug/L
Dibromochloromethane	124-48-1	1.0 U	1.0	3	ug/L
Dibromomethane	74-95-3	1.0 U	1.0	10	ug/L
Ethylbenzene	100-41-4	1.0 U	1.0	5	ug/L
Iodomethane	74-88-4	2.0 U	2.0	10	ug/L
m,p-Xylenes	108-38-3/106-42-3	2.0 U	2.0	NE	ug/L
Methylene chloride	75-09-2	2.0 U	2.0		ug/L
o-Xylene	95-47-6	1.0 U	1.0	NE	ug/L
Styrene	100-42-5	1.0 U	1.0	10	ug/L

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ANALYTICAL REPORT

Sample ID:	SW-5	Project:	Alexander Co. Closed LF
Lab #:	C604535-07	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/23/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L22015		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results			NC SWS RL	Units
Tetrachloroethene	127-18-4	1.0	U	1.0	3	ug/L
Toluene	108-88-3	1.0	U	1.0	5	ug/L
trans-1,2-Dichloroethene	156-60-5	1.0	U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	5.5	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	1.0	U	1.0	100	ug/L
Trichloroethene	79-01-6	1.0	U	1.0	3	ug/L
Trichlorofluoromethane	75-69-4	1.0	U	1.0	5	ug/L
Vinyl acetate	108-05-4	2.0	U	2.0	50	ug/L
Vinyl chloride	75-01-4	1.0	U	1.0	5.5	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	57	50.0	115 %	70-130
Dibromofluoromethane	1868-53-7	42	50.0	85 %	73-138
Toluene-d8	2037-26-5	56	50.0	112 %	77-118

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ANALYTICAL REPORT

Sample ID:	SW-5	Project:	Alexander Co. Closed LF
Lab #:	C604535-07	Work Order #:	C604535
		Matrix:	Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results		NC SWS RL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.0100 U	0.0100	6	mg/L	EPA 6010B	EPA 3005A	6L19021
Arsenic	7440-38-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Barium	7440-39-3	**0.135**	0.0100	100	mg/L	EPA 6010B	EPA 3005A	6L19021
Beryllium	7440-41-7	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19021
Cadmium	7440-43-9	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19021
Chromium	7440-47-3	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Cobalt	7440-48-4	**0.168**	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Copper	7440-50-8	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Lead	7439-92-1	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Nickel	7440-02-0	0.0100 U	0.0100	50	mg/L	EPA 6010B	EPA 3005A	6L19021
Selenium	7782-49-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Silver	7440-22-4	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Thallium	7440-28-0	0.0100 U	0.0100	5.5	mg/L	EPA 6010B	EPA 3005A	6L19021
Vanadium	7440-62-2	0.0100 U	0.0100	25	mg/L	EPA 6010B	EPA 3005A	6L19021
Zinc	7440-66-6	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021

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ANALYTICAL REPORT

Sample ID:	MW-3	Project:	Alexander Co. Closed LF
Lab #:	C604535-08	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/23/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L22015		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWS RL	Units
1,1,1,2-Tetrachloroethane	630-20-6	1.0	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	1.0	U	1.0	5	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	1.0	U	1.0	3	ug/L
1,1,2-Trichloroethane	79-00-5	1.0	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	1.0	U	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	1.0	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	1.0	U	1.0	8	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	1.0	U	1.0	13	ug/L
1,2-Dibromoethane	106-93-4	1.0	U	1.0	3	ug/L
1,2-Dichlorobenzene	95-50-1	1.0	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	1.0	U	1.0	3	ug/L
1,2-Dichloropropane	78-87-5	1.0	U	1.0	3	ug/L
1,4-Dichlorobenzene	106-46-7	**3.8**		1.0	3	ug/L
2-Butanone	78-93-3	5.0	U	5.0	100	ug/L
2-Hexanone	591-78-6	5.0	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	5.0	U	5.0	100	ug/L
Acetone	67-64-1	5.0	U	5.0	100	ug/L
Acrylonitrile	107-13-1	5.0	U	5.0	200	ug/L
Benzene	71-43-2	**4.8**		1.0	3	ug/L
Bromochloromethane	74-97-5	1.0	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.40	U	0.40		ug/L
Bromoform	75-25-2	1.0	U	1.0	3	ug/L
Bromomethane	74-83-9	1.0	U	1.0	10	ug/L
Carbon disulfide	75-15-0	5.0	U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	1.0	U	1.0	5.5	ug/L
Chlorobenzene	108-90-7	**1.0**		1.0	3	ug/L
Chloroethane	75-00-3	1.0	U	1.0	10	ug/L
Chloroform	67-66-3	1.0	U	1.0	5	ug/L
Chloromethane	74-87-3	1.0	U	1.0	5.5	ug/L
cis-1,2-Dichloroethene	156-59-2	**7.6**		1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20	U	0.20	5.5	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromomethane	74-95-3	1.0	U	1.0	10	ug/L
Ethylbenzene	100-41-4	**1.4**		1.0	5	ug/L
Iodomethane	74-88-4	2.0	U	2.0	10	ug/L
m,p-Xylenes	108-38-3/106-42-3	**6.4**		2.0	NE	ug/L
Methylene chloride	75-09-2	2.0	U	2.0		ug/L
o-Xylene	95-47-6	**2.4**		1.0	NE	ug/L
Styrene	100-42-5	1.0	U	1.0	10	ug/L

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ANALYTICAL REPORT

Sample ID:	MW-3	Project:	Alexander Co. Closed LF
Lab #:	C604535-08	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/23/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L22015		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWS RL	Units
Tetrachloroethene	127-18-4	1.0 U	1.0	3	ug/L
Toluene	108-88-3	**1.5**	1.0	5	ug/L
trans-1,2-Dichloroethene	156-60-5	1.0 U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20 U	0.20	5.5	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	1.0 U	1.0	100	ug/L
Trichloroethene	79-01-6	**1.0**	1.0	3	ug/L
Trichlorofluoromethane	75-69-4	1.0 U	1.0	5	ug/L
Vinyl acetate	108-05-4	2.0 U	2.0	50	ug/L
Vinyl chloride	75-01-4	1.0 U	1.0	5.5	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	53	50.0	105 %	70-130
Dibromofluoromethane	1868-53-7	42	50.0	84 %	73-138
Toluene-d8	2037-26-5	54	50.0	109 %	77-118

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ANALYTICAL REPORT

Sample ID: MW-3
Lab #: C604535-08

Project: Alexander Co. Closed LF
Work Order #: C604535
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results		NC SWS RL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.0100 U	0.0100	6	mg/L	EPA 6010B	EPA 3005A	6L19021
Arsenic	7440-38-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Barium	7440-39-3	**0.0645**	0.0100	100	mg/L	EPA 6010B	EPA 3005A	6L19021
Beryllium	7440-41-7	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19021
Cadmium	7440-43-9	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19021
Chromium	7440-47-3	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Cobalt	7440-48-4	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Copper	7440-50-8	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Lead	7439-92-1	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Nickel	7440-02-0	**0.0204**	0.0100	50	mg/L	EPA 6010B	EPA 3005A	6L19021
Selenium	7782-49-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Silver	7440-22-4	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Thallium	7440-28-0	0.0100 U	0.0100	5.5	mg/L	EPA 6010B	EPA 3005A	6L19021
Vanadium	7440-62-2	0.0100 U	0.0100	25	mg/L	EPA 6010B	EPA 3005A	6L19021
Zinc	7440-66-6	**0.0117**	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021

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ANALYTICAL REPORT

Sample ID:	MW-12D	Project:	Alexander Co. Closed LF
Lab #:	C604535-09	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/23/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L22015		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWS RL	Units
1,1,1,2-Tetrachloroethane	630-20-6	1.0	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	1.0	U	1.0	5	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	1.0	U	1.0	3	ug/L
1,1,2-Trichloroethane	79-00-5	1.0	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	1.0	U	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	1.0	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	1.0	U	1.0	8	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	1.0	U	1.0	13	ug/L
1,2-Dibromoethane	106-93-4	1.0	U	1.0	3	ug/L
1,2-Dichlorobenzene	95-50-1	1.0	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	1.0	U	1.0	3	ug/L
1,2-Dichloropropane	78-87-5	1.0	U	1.0	3	ug/L
1,4-Dichlorobenzene	106-46-7	1.0	U	1.0	3	ug/L
2-Butanone	78-93-3	5.0	U	5.0	100	ug/L
2-Hexanone	591-78-6	5.0	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	5.0	U	5.0	100	ug/L
Acetone	67-64-1	5.0	U	5.0	100	ug/L
Acrylonitrile	107-13-1	5.0	U	5.0	200	ug/L
Benzene	71-43-2	1.0	U	1.0	3	ug/L
Bromochloromethane	74-97-5	1.0	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.40	U	0.40		ug/L
Bromoform	75-25-2	1.0	U	1.0	3	ug/L
Bromomethane	74-83-9	1.0	U	1.0	10	ug/L
Carbon disulfide	75-15-0	5.0	U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	1.0	U	1.0	5.5	ug/L
Chlorobenzene	108-90-7	1.0	U	1.0	3	ug/L
Chloroethane	75-00-3	1.0	U	1.0	10	ug/L
Chloroform	67-66-3	1.0	U	1.0	5	ug/L
Chloromethane	74-87-3	1.0	U	1.0	5.5	ug/L
cis-1,2-Dichloroethene	156-59-2	1.0	U	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20	U	0.20	5.5	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromomethane	74-95-3	1.0	U	1.0	10	ug/L
Ethylbenzene	100-41-4	1.0	U	1.0	5	ug/L
Iodomethane	74-88-4	2.0	U	2.0	10	ug/L
m,p-Xylenes	108-38-3/106-42-3	2.0	U	2.0	NE	ug/L
Methylene chloride	75-09-2	2.0	U	2.0		ug/L
o-Xylene	95-47-6	1.0	U	1.0	NE	ug/L
Styrene	100-42-5	1.0	U	1.0	10	ug/L

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ANALYTICAL REPORT

Sample ID:	MW-12D	Project:	Alexander Co. Closed LF
Lab #:	C604535-09	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/23/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L22015		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results			NC SWS RL	Units
Tetrachloroethene	127-18-4	1.0	U	1.0	3	ug/L
Toluene	108-88-3	1.0	U	1.0	5	ug/L
trans-1,2-Dichloroethene	156-60-5	1.0	U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	5.5	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	1.0	U	1.0	100	ug/L
Trichloroethene	79-01-6	1.0	U	1.0	3	ug/L
Trichlorofluoromethane	75-69-4	1.0	U	1.0	5	ug/L
Vinyl acetate	108-05-4	2.0	U	2.0	50	ug/L
Vinyl chloride	75-01-4	1.0	U	1.0	5.5	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	54	50.0	107 %	70-130
Dibromofluoromethane	1868-53-7	43	50.0	86 %	73-138
Toluene-d8	2037-26-5	53	50.0	105 %	77-118

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ANALYTICAL REPORT

Sample ID: MW-12D
Lab #: C604535-09

Project: Alexander Co. Closed LF
Work Order #: C604535
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results		NC SWS RL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.0100 U	0.0100	6	mg/L	EPA 6010B	EPA 3005A	6L19021
Arsenic	7440-38-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Barium	7440-39-3	**0.0168**	0.0100	100	mg/L	EPA 6010B	EPA 3005A	6L19021
Beryllium	7440-41-7	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19021
Cadmium	7440-43-9	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19021
Chromium	7440-47-3	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Cobalt	7440-48-4	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Copper	7440-50-8	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Lead	7439-92-1	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Nickel	7440-02-0	0.0100 U	0.0100	50	mg/L	EPA 6010B	EPA 3005A	6L19021
Selenium	7782-49-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Silver	7440-22-4	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Thallium	7440-28-0	0.0100 U	0.0100	5.5	mg/L	EPA 6010B	EPA 3005A	6L19021
Vanadium	7440-62-2	0.0100 U	0.0100	25	mg/L	EPA 6010B	EPA 3005A	6L19021
Zinc	7440-66-6	**0.0156**	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021

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ANALYTICAL REPORT

Sample ID:	MW-12	Project:	Alexander Co. Closed LF
Lab #:	C604535-10	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/23/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L22015		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWS RL	Units
1,1,1,2-Tetrachloroethane	630-20-6	1.0	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	1.0	U	1.0	5	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	1.0	U	1.0	3	ug/L
1,1,2-Trichloroethane	79-00-5	1.0	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	**3.7**		1.0	5	ug/L
1,1-Dichloroethene	75-35-4	1.0	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	1.0	U	1.0	8	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	1.0	U	1.0	13	ug/L
1,2-Dibromoethane	106-93-4	1.0	U	1.0	3	ug/L
1,2-Dichlorobenzene	95-50-1	1.0	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	1.0	U	1.0	3	ug/L
1,2-Dichloropropane	78-87-5	1.0	U	1.0	3	ug/L
1,4-Dichlorobenzene	106-46-7	**6.9**		1.0	3	ug/L
2-Butanone	78-93-3	5.0	U	5.0	100	ug/L
2-Hexanone	591-78-6	5.0	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	5.0	U	5.0	100	ug/L
Acetone	67-64-1	5.0	U	5.0	100	ug/L
Acrylonitrile	107-13-1	5.0	U	5.0	200	ug/L
Benzene	71-43-2	**6.3**		1.0	3	ug/L
Bromochloromethane	74-97-5	1.0	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.40	U	0.40		ug/L
Bromoform	75-25-2	1.0	U	1.0	3	ug/L
Bromomethane	74-83-9	1.0	U	1.0	10	ug/L
Carbon disulfide	75-15-0	5.0	U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	1.0	U	1.0	5.5	ug/L
Chlorobenzene	108-90-7	**1.5**		1.0	3	ug/L
Chloroethane	75-00-3	**2.0**		1.0	10	ug/L
Chloroform	67-66-3	1.0	U	1.0	5	ug/L
Chloromethane	74-87-3	1.0	U	1.0	5.5	ug/L
cis-1,2-Dichloroethene	156-59-2	**9.1**		1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20	U	0.20	5.5	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromomethane	74-95-3	1.0	U	1.0	10	ug/L
Ethylbenzene	100-41-4	1.0	U	1.0	5	ug/L
Iodomethane	74-88-4	2.0	U	2.0	10	ug/L
m,p-Xylenes	108-38-3/106-42-3	2.0	U	2.0	NE	ug/L
Methylene chloride	75-09-2	2.0	U	2.0		ug/L
o-Xylene	95-47-6	1.0	U	1.0	NE	ug/L
Styrene	100-42-5	1.0	U	1.0	10	ug/L

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ANALYTICAL REPORT

Sample ID:	MW-12	Project:	Alexander Co. Closed LF
Lab #:	C604535-10	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/23/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L22015		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWS RL	Units
Tetrachloroethene	127-18-4	**2.0**	1.0	3	ug/L
Toluene	108-88-3	1.0 U	1.0	5	ug/L
trans-1,2-Dichloroethene	156-60-5	1.0 U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20 U	0.20	5.5	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	1.0 U	1.0	100	ug/L
Trichloroethene	79-01-6	**2.4**	1.0	3	ug/L
Trichlorofluoromethane	75-69-4	1.0 U	1.0	5	ug/L
Vinyl acetate	108-05-4	2.0 U	2.0	50	ug/L
Vinyl chloride	75-01-4	1.0 U	1.0	5.5	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	52	50.0	104 %	70-130
Dibromofluoromethane	1868-53-7	44	50.0	88 %	73-138
Toluene-d8	2037-26-5	53	50.0	107 %	77-118

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ANALYTICAL REPORT

Sample ID:	MW-12	Project:	Alexander Co. Closed LF
Lab #:	C604535-10	Work Order #:	C604535
		Matrix:	Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results		NC SWS RL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.0100 U	0.0100	6	mg/L	EPA 6010B	EPA 3005A	6L19021
Arsenic	7440-38-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Barium	7440-39-3	**0.103**	0.0100	100	mg/L	EPA 6010B	EPA 3005A	6L19021
Beryllium	7440-41-7	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19021
Cadmium	7440-43-9	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19021
Chromium	7440-47-3	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Cobalt	7440-48-4	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Copper	7440-50-8	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Lead	7439-92-1	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Nickel	7440-02-0	0.0100 U	0.0100	50	mg/L	EPA 6010B	EPA 3005A	6L19021
Selenium	7782-49-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Silver	7440-22-4	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Thallium	7440-28-0	0.0100 U	0.0100	5.5	mg/L	EPA 6010B	EPA 3005A	6L19021
Vanadium	7440-62-2	0.0100 U	0.0100	25	mg/L	EPA 6010B	EPA 3005A	6L19021
Zinc	7440-66-6	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021

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ANALYTICAL REPORT

Sample ID:	MW-7	Project:	Alexander Co. Closed LF
Lab #:	C604535-11	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/23/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L22015		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWS RL	Units
1,1,1,2-Tetrachloroethane	630-20-6	1.0	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	1.0	U	1.0	5	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	1.0	U	1.0	3	ug/L
1,1,2-Trichloroethane	79-00-5	1.0	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	**3.7**		1.0	5	ug/L
1,1-Dichloroethene	75-35-4	1.0	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	1.0	U	1.0	8	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	1.0	U	1.0	13	ug/L
1,2-Dibromoethane	106-93-4	1.0	U	1.0	3	ug/L
1,2-Dichlorobenzene	95-50-1	1.0	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	1.0	U	1.0	3	ug/L
1,2-Dichloropropane	78-87-5	1.0	U	1.0	3	ug/L
1,4-Dichlorobenzene	106-46-7	**3.0**		1.0	3	ug/L
2-Butanone	78-93-3	5.0	U	5.0	100	ug/L
2-Hexanone	591-78-6	5.0	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	5.0	U	5.0	100	ug/L
Acetone	67-64-1	5.0	U	5.0	100	ug/L
Acrylonitrile	107-13-1	5.0	U	5.0	200	ug/L
Benzene	71-43-2	**2.6**		1.0	3	ug/L
Bromochloromethane	74-97-5	1.0	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.40	U	0.40		ug/L
Bromoform	75-25-2	1.0	U	1.0	3	ug/L
Bromomethane	74-83-9	1.0	U	1.0	10	ug/L
Carbon disulfide	75-15-0	5.0	U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	1.0	U	1.0	5.5	ug/L
Chlorobenzene	108-90-7	**1.4**		1.0	3	ug/L
Chloroethane	75-00-3	1.0	U	1.0	10	ug/L
Chloroform	67-66-3	1.0	U	1.0	5	ug/L
Chloromethane	74-87-3	1.0	U	1.0	5.5	ug/L
cis-1,2-Dichloroethene	156-59-2	**7.3**		1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20	U	0.20	5.5	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromomethane	74-95-3	1.0	U	1.0	10	ug/L
Ethylbenzene	100-41-4	1.0	U	1.0	5	ug/L
Iodomethane	74-88-4	2.0	U	2.0	10	ug/L
m,p-Xylenes	108-38-3/106-42-3	2.0	U	2.0	NE	ug/L
Methylene chloride	75-09-2	2.0	U	2.0		ug/L
o-Xylene	95-47-6	1.0	U	1.0	NE	ug/L
Styrene	100-42-5	1.0	U	1.0	10	ug/L

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ANALYTICAL REPORT

Sample ID:	MW-7	Project:	Alexander Co. Closed LF
Lab #:	C604535-11	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/23/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L22015		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWS RL	Units
Tetrachloroethene	127-18-4	**1.2**	1.0	3	ug/L
Toluene	108-88-3	1.0 U	1.0	5	ug/L
trans-1,2-Dichloroethene	156-60-5	1.0 U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20 U	0.20	5.5	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	1.0 U	1.0	100	ug/L
Trichloroethene	79-01-6	**1.2**	1.0	3	ug/L
Trichlorofluoromethane	75-69-4	1.0 U	1.0	5	ug/L
Vinyl acetate	108-05-4	2.0 U	2.0	50	ug/L
Vinyl chloride	75-01-4	1.0 U	1.0	5.5	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	55	50.0	109 %	70-130
Dibromofluoromethane	1868-53-7	43	50.0	87 %	73-138
Toluene-d8	2037-26-5	54	50.0	108 %	77-118

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ANALYTICAL REPORT

Sample ID: MW-7
Lab #: C604535-11

Project: Alexander Co. Closed LF
Work Order #: C604535
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results		NC SWS RL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.0100 U	0.0100	6	mg/L	EPA 6010B	EPA 3005A	6L19021
Arsenic	7440-38-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Barium	7440-39-3	**0.0101**	0.0100	100	mg/L	EPA 6010B	EPA 3005A	6L19021
Beryllium	7440-41-7	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19021
Cadmium	7440-43-9	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19021
Chromium	7440-47-3	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Cobalt	7440-48-4	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Copper	7440-50-8	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Lead	7439-92-1	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Nickel	7440-02-0	0.0100 U	0.0100	50	mg/L	EPA 6010B	EPA 3005A	6L19021
Selenium	7782-49-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Silver	7440-22-4	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Thallium	7440-28-0	0.0100 U	0.0100	5.5	mg/L	EPA 6010B	EPA 3005A	6L19021
Vanadium	7440-62-2	0.0100 U	0.0100	25	mg/L	EPA 6010B	EPA 3005A	6L19021
Zinc	7440-66-6	**0.0101**	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021

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ANALYTICAL REPORT

Sample ID:	MW-15	Project:	Alexander Co. Closed LF
Lab #:	C604535-12	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/24/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L23001		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWS RL	Units
1,1,1,2-Tetrachloroethane	630-20-6	1.0	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	1.0	U	1.0	5	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	1.0	U	1.0	3	ug/L
1,1,2-Trichloroethane	79-00-5	1.0	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	**4.6**		1.0	5	ug/L
1,1-Dichloroethene	75-35-4	1.0	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	1.0	U	1.0	8	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	1.0	U	1.0	13	ug/L
1,2-Dibromoethane	106-93-4	1.0	U	1.0	3	ug/L
1,2-Dichlorobenzene	95-50-1	1.0	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	1.0	U	1.0	3	ug/L
1,2-Dichloropropane	78-87-5	1.0	U	1.0	3	ug/L
1,4-Dichlorobenzene	106-46-7	1.0	U	1.0	3	ug/L
2-Butanone	78-93-3	5.0	U	5.0	100	ug/L
2-Hexanone	591-78-6	5.0	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	5.0	U	5.0	100	ug/L
Acetone	67-64-1	5.0	U	5.0	100	ug/L
Acrylonitrile	107-13-1	5.0	U	5.0	200	ug/L
Benzene	71-43-2	**2.2**		1.0	3	ug/L
Bromochloromethane	74-97-5	1.0	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.40	U	0.40		ug/L
Bromoform	75-25-2	1.0	U	1.0	3	ug/L
Bromomethane	74-83-9	1.0	U	1.0	10	ug/L
Carbon disulfide	75-15-0	5.0	U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	1.0	U	1.0	5.5	ug/L
Chlorobenzene	108-90-7	1.0	U	1.0	3	ug/L
Chloroethane	75-00-3	1.0	U	1.0	10	ug/L
Chloroform	67-66-3	1.0	U	1.0	5	ug/L
Chloromethane	74-87-3	1.0	U	1.0	5.5	ug/L
cis-1,2-Dichloroethene	156-59-2	**3.5**		1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20	U	0.20	5.5	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromomethane	74-95-3	1.0	U	1.0	10	ug/L
Ethylbenzene	100-41-4	1.0	U	1.0	5	ug/L
Iodomethane	74-88-4	2.0	U	2.0	10	ug/L
m,p-Xylenes	108-38-3/106-42-3	2.0	U	2.0	NE	ug/L
Methylene chloride	75-09-2	2.0	U	2.0		ug/L
o-Xylene	95-47-6	1.0	U	1.0	NE	ug/L
Styrene	100-42-5	1.0	U	1.0	10	ug/L

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ANALYTICAL REPORT

Sample ID:	MW-15	Project:	Alexander Co. Closed LF
Lab #:	C604535-12	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/24/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L23001		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results			NC SWS RL	Units
Tetrachloroethene	127-18-4	1.0	U	1.0	3	ug/L
Toluene	108-88-3	1.0	U	1.0	5	ug/L
trans-1,2-Dichloroethene	156-60-5	1.0	U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	5.5	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	1.0	U	1.0	100	ug/L
Trichloroethene	79-01-6	1.0	U	1.0	3	ug/L
Trichlorofluoromethane	75-69-4	1.0	U	1.0	5	ug/L
Vinyl acetate	108-05-4	2.0	U	2.0	50	ug/L
Vinyl chloride	75-01-4	1.0	U	1.0	5.5	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	55	50.0	110 %	70-130
Dibromofluoromethane	1868-53-7	43	50.0	86 %	73-138
Toluene-d8	2037-26-5	53	50.0	105 %	77-118

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ANALYTICAL REPORT

Sample ID:	MW-15	Project:	Alexander Co. Closed LF
Lab #:	C604535-12	Work Order #:	C604535
		Matrix:	Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results		NC SWS RL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.0100 U	0.0100	6	mg/L	EPA 6010B	EPA 3005A	6L19021
Arsenic	7440-38-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Barium	7440-39-3	**0.0225**	0.0100	100	mg/L	EPA 6010B	EPA 3005A	6L19021
Beryllium	7440-41-7	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19021
Cadmium	7440-43-9	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19021
Chromium	7440-47-3	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Cobalt	7440-48-4	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Copper	7440-50-8	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Lead	7439-92-1	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Nickel	7440-02-0	0.0100 U	0.0100	50	mg/L	EPA 6010B	EPA 3005A	6L19021
Selenium	7782-49-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Silver	7440-22-4	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Thallium	7440-28-0	0.0100 U	0.0100	5.5	mg/L	EPA 6010B	EPA 3005A	6L19021
Vanadium	7440-62-2	0.0100 U	0.0100	25	mg/L	EPA 6010B	EPA 3005A	6L19021
Zinc	7440-66-6	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021

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ANALYTICAL REPORT

Sample ID:	MW-8	Project:	Alexander Co. Closed LF
Lab #:	C604535-13	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/24/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L23001		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWS RL	Units
1,1,1,2-Tetrachloroethane	630-20-6	1.0	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	1.0	U	1.0	5	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	1.0	U	1.0	3	ug/L
1,1,2-Trichloroethane	79-00-5	1.0	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	1.0	U	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	1.0	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	1.0	U	1.0	8	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	1.0	U	1.0	13	ug/L
1,2-Dibromoethane	106-93-4	1.0	U	1.0	3	ug/L
1,2-Dichlorobenzene	95-50-1	1.0	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	1.0	U	1.0	3	ug/L
1,2-Dichloropropane	78-87-5	1.0	U	1.0	3	ug/L
1,4-Dichlorobenzene	106-46-7	1.0	U	1.0	3	ug/L
2-Butanone	78-93-3	5.0	U	5.0	100	ug/L
2-Hexanone	591-78-6	5.0	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	5.0	U	5.0	100	ug/L
Acetone	67-64-1	5.0	U	5.0	100	ug/L
Acrylonitrile	107-13-1	5.0	U	5.0	200	ug/L
Benzene	71-43-2	1.0	U	1.0	3	ug/L
Bromochloromethane	74-97-5	1.0	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.40	U	0.40		ug/L
Bromoform	75-25-2	1.0	U	1.0	3	ug/L
Bromomethane	74-83-9	1.0	U	1.0	10	ug/L
Carbon disulfide	75-15-0	5.0	U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	1.0	U	1.0	5.5	ug/L
Chlorobenzene	108-90-7	1.0	U	1.0	3	ug/L
Chloroethane	75-00-3	1.0	U	1.0	10	ug/L
Chloroform	67-66-3	1.0	U	1.0	5	ug/L
Chloromethane	74-87-3	1.0	U	1.0	5.5	ug/L
cis-1,2-Dichloroethene	156-59-2	**3.5**		1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20	U	0.20	5.5	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromomethane	74-95-3	1.0	U	1.0	10	ug/L
Ethylbenzene	100-41-4	1.0	U	1.0	5	ug/L
Iodomethane	74-88-4	2.0	U	2.0	10	ug/L
m,p-Xylenes	108-38-3/106-42-3	2.0	U	2.0	NE	ug/L
Methylene chloride	75-09-2	2.0	U	2.0		ug/L
o-Xylene	95-47-6	1.0	U	1.0	NE	ug/L
Styrene	100-42-5	1.0	U	1.0	10	ug/L

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ANALYTICAL REPORT

Sample ID:	MW-8	Project:	Alexander Co. Closed LF
Lab #:	C604535-13	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/24/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L23001		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWS RL	Units
Tetrachloroethene	127-18-4	1.0 U	1.0	3	ug/L
Toluene	108-88-3	**6.5**	1.0	5	ug/L
trans-1,2-Dichloroethene	156-60-5	1.0 U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20 U	0.20	5.5	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	1.0 U	1.0	100	ug/L
Trichloroethene	79-01-6	1.0 U	1.0	3	ug/L
Trichlorofluoromethane	75-69-4	1.0 U	1.0	5	ug/L
Vinyl acetate	108-05-4	2.0 U	2.0	50	ug/L
Vinyl chloride	75-01-4	1.0 U	1.0	5.5	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	54	50.0	107 %	70-130
Dibromofluoromethane	1868-53-7	43	50.0	86 %	73-138
Toluene-d8	2037-26-5	53	50.0	106 %	77-118

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ANALYTICAL REPORT

Sample ID:	MW-8	Project:	Alexander Co. Closed LF
Lab #:	C604535-13	Work Order #:	C604535
		Matrix:	Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results		NC SWS RL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.0100 U	0.0100	6	mg/L	EPA 6010B	EPA 3005A	6L19021
Arsenic	7440-38-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Barium	7440-39-3	**0.0633**	0.0100	100	mg/L	EPA 6010B	EPA 3005A	6L19021
Beryllium	7440-41-7	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19021
Cadmium	7440-43-9	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19021
Chromium	7440-47-3	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Cobalt	7440-48-4	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Copper	7440-50-8	**0.0167**	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Lead	7439-92-1	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Nickel	7440-02-0	0.0100 U	0.0100	50	mg/L	EPA 6010B	EPA 3005A	6L19021
Selenium	7782-49-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Silver	7440-22-4	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Thallium	7440-28-0	0.0100 U	0.0100	5.5	mg/L	EPA 6010B	EPA 3005A	6L19021
Vanadium	7440-62-2	0.0100 U	0.0100	25	mg/L	EPA 6010B	EPA 3005A	6L19021
Zinc	7440-66-6	**0.0189**	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021

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ANALYTICAL REPORT

Sample ID:	MW-17	Project:	Alexander Co. Closed LF
Lab #:	C604535-14	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/24/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L23001		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWS RL	Units
1,1,1,2-Tetrachloroethane	630-20-6	1.0	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	1.0	U	1.0	5	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	1.0	U	1.0	3	ug/L
1,1,2-Trichloroethane	79-00-5	1.0	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	**3.2**		1.0	5	ug/L
1,1-Dichloroethene	75-35-4	1.0	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	1.0	U	1.0	8	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	1.0	U	1.0	13	ug/L
1,2-Dibromoethane	106-93-4	1.0	U	1.0	3	ug/L
1,2-Dichlorobenzene	95-50-1	1.0	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	1.0	U	1.0	3	ug/L
1,2-Dichloropropane	78-87-5	1.0	U	1.0	3	ug/L
1,4-Dichlorobenzene	106-46-7	1.0	U	1.0	3	ug/L
2-Butanone	78-93-3	5.0	U	5.0	100	ug/L
2-Hexanone	591-78-6	5.0	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	5.0	U	5.0	100	ug/L
Acetone	67-64-1	5.0	U	5.0	100	ug/L
Acrylonitrile	107-13-1	5.0	U	5.0	200	ug/L
Benzene	71-43-2	**1.1**		1.0	3	ug/L
Bromochloromethane	74-97-5	1.0	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.40	U	0.40		ug/L
Bromoform	75-25-2	1.0	U	1.0	3	ug/L
Bromomethane	74-83-9	1.0	U	1.0	10	ug/L
Carbon disulfide	75-15-0	5.0	U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	1.0	U	1.0	5.5	ug/L
Chlorobenzene	108-90-7	1.0	U	1.0	3	ug/L
Chloroethane	75-00-3	1.0	U	1.0	10	ug/L
Chloroform	67-66-3	1.0	U	1.0	5	ug/L
Chloromethane	74-87-3	1.0	U	1.0	5.5	ug/L
cis-1,2-Dichloroethene	156-59-2	**2.6**		1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20	U	0.20	5.5	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromomethane	74-95-3	1.0	U	1.0	10	ug/L
Ethylbenzene	100-41-4	1.0	U	1.0	5	ug/L
Iodomethane	74-88-4	2.0	U	2.0	10	ug/L
m,p-Xylenes	108-38-3/106-42-3	2.0	U	2.0	NE	ug/L
Methylene chloride	75-09-2	2.0	U	2.0		ug/L
o-Xylene	95-47-6	1.0	U	1.0	NE	ug/L
Styrene	100-42-5	1.0	U	1.0	10	ug/L

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ANALYTICAL REPORT

Sample ID:	MW-17	Project:	Alexander Co. Closed LF
Lab #:	C604535-14	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/24/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L23001		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWS RL	Units
Tetrachloroethene	127-18-4	1.0 U	1.0	3	ug/L
Toluene	108-88-3	**2.0**	1.0	5	ug/L
trans-1,2-Dichloroethene	156-60-5	1.0 U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20 U	0.20	5.5	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	1.0 U	1.0	100	ug/L
Trichloroethene	79-01-6	1.0 U	1.0	3	ug/L
Trichlorofluoromethane	75-69-4	1.0 U	1.0	5	ug/L
Vinyl acetate	108-05-4	2.0 U	2.0	50	ug/L
Vinyl chloride	75-01-4	1.0 U	1.0	5.5	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	58	50.0	115 %	70-130
Dibromofluoromethane	1868-53-7	44	50.0	87 %	73-138
Toluene-d8	2037-26-5	52	50.0	104 %	77-118

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ANALYTICAL REPORT

Sample ID: MW-17
Lab #: C604535-14

Project: Alexander Co. Closed LF
Work Order #: C604535
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results		NC SWS RL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.0100 U	0.0100	6	mg/L	EPA 6010B	EPA 3005A	6L19021
Arsenic	7440-38-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Barium	7440-39-3	**0.0579**	0.0100	100	mg/L	EPA 6010B	EPA 3005A	6L19021
Beryllium	7440-41-7	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19021
Cadmium	7440-43-9	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19021
Chromium	7440-47-3	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Cobalt	7440-48-4	**0.0199**	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Copper	7440-50-8	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Lead	7439-92-1	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Nickel	7440-02-0	0.0100 U	0.0100	50	mg/L	EPA 6010B	EPA 3005A	6L19021
Selenium	7782-49-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Silver	7440-22-4	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Thallium	7440-28-0	0.0100 U	0.0100	5.5	mg/L	EPA 6010B	EPA 3005A	6L19021
Vanadium	7440-62-2	0.0100 U	0.0100	25	mg/L	EPA 6010B	EPA 3005A	6L19021
Zinc	7440-66-6	**0.0100**	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021

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ANALYTICAL REPORT

Sample ID:	MW-13	Project:	Alexander Co. Closed LF
Lab #:	C604535-15	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/24/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L23001		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWS RL	Units
1,1,1,2-Tetrachloroethane	630-20-6	1.0	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	1.0	U	1.0	5	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	1.0	U	1.0	3	ug/L
1,1,2-Trichloroethane	79-00-5	1.0	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	1.0	U	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	1.0	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	1.0	U	1.0	8	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	1.0	U	1.0	13	ug/L
1,2-Dibromoethane	106-93-4	1.0	U	1.0	3	ug/L
1,2-Dichlorobenzene	95-50-1	1.0	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	1.0	U	1.0	3	ug/L
1,2-Dichloropropane	78-87-5	1.0	U	1.0	3	ug/L
1,4-Dichlorobenzene	106-46-7	1.0	U	1.0	3	ug/L
2-Butanone	78-93-3	5.0	U	5.0	100	ug/L
2-Hexanone	591-78-6	5.0	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	5.0	U	5.0	100	ug/L
Acetone	67-64-1	5.0	U	5.0	100	ug/L
Acrylonitrile	107-13-1	5.0	U	5.0	200	ug/L
Benzene	71-43-2	1.0	U	1.0	3	ug/L
Bromochloromethane	74-97-5	1.0	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.40	U	0.40		ug/L
Bromoform	75-25-2	1.0	U	1.0	3	ug/L
Bromomethane	74-83-9	1.0	U	1.0	10	ug/L
Carbon disulfide	75-15-0	5.0	U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	1.0	U	1.0	5.5	ug/L
Chlorobenzene	108-90-7	1.0	U	1.0	3	ug/L
Chloroethane	75-00-3	1.0	U	1.0	10	ug/L
Chloroform	67-66-3	1.0	U	1.0	5	ug/L
Chloromethane	74-87-3	1.0	U	1.0	5.5	ug/L
cis-1,2-Dichloroethene	156-59-2	1.0	U	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20	U	0.20	5.5	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromomethane	74-95-3	1.0	U	1.0	10	ug/L
Ethylbenzene	100-41-4	1.0	U	1.0	5	ug/L
Iodomethane	74-88-4	2.0	U	2.0	10	ug/L
m,p-Xylenes	108-38-3/106-42-3	2.0	U	2.0	NE	ug/L
Methylene chloride	75-09-2	2.0	U	2.0		ug/L
o-Xylene	95-47-6	1.0	U	1.0	NE	ug/L
Styrene	100-42-5	1.0	U	1.0	10	ug/L

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ANALYTICAL REPORT

Sample ID:	MW-13	Project:	Alexander Co. Closed LF
Lab #:	C604535-15	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/24/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L23001		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWS RL	Units
Tetrachloroethene	127-18-4	1.0	U	1.0	3	ug/L
Toluene	108-88-3	1.0	U	1.0	5	ug/L
trans-1,2-Dichloroethene	156-60-5	1.0	U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	5.5	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	1.0	U	1.0	100	ug/L
Trichloroethene	79-01-6	1.0	U	1.0	3	ug/L
Trichlorofluoromethane	75-69-4	1.0	U	1.0	5	ug/L
Vinyl acetate	108-05-4	2.0	U	2.0	50	ug/L
Vinyl chloride	75-01-4	1.0	U	1.0	5.5	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	56	50.0	111 %	70-130
Dibromofluoromethane	1868-53-7	45	50.0	90 %	73-138
Toluene-d8	2037-26-5	55	50.0	110 %	77-118

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ANALYTICAL REPORT

Sample ID: MW-13
Lab #: C604535-15

Project: Alexander Co. Closed LF
Work Order #: C604535
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results		NC SWS RL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.0100 U	0.0100	6	mg/L	EPA 6010B	EPA 3005A	6L19021
Arsenic	7440-38-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Barium	7440-39-3	**0.0321**	0.0100	100	mg/L	EPA 6010B	EPA 3005A	6L19021
Beryllium	7440-41-7	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19021
Cadmium	7440-43-9	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19021
Chromium	7440-47-3	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Cobalt	7440-48-4	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Copper	7440-50-8	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Lead	7439-92-1	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Nickel	7440-02-0	**0.0130**	0.0100	50	mg/L	EPA 6010B	EPA 3005A	6L19021
Selenium	7782-49-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Silver	7440-22-4	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Thallium	7440-28-0	0.0100 U	0.0100	5.5	mg/L	EPA 6010B	EPA 3005A	6L19021
Vanadium	7440-62-2	0.0100 U	0.0100	25	mg/L	EPA 6010B	EPA 3005A	6L19021
Zinc	7440-66-6	**0.0112**	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021

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ANALYTICAL REPORT

Sample ID:	MW-6	Project:	Alexander Co. Closed LF
Lab #:	C604535-16	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/24/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L23001		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWS RL	Units
1,1,1,2-Tetrachloroethane	630-20-6	1.0	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	1.0	U	1.0	5	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	1.0	U	1.0	3	ug/L
1,1,2-Trichloroethane	79-00-5	1.0	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	1.0	U	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	1.0	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	1.0	U	1.0	8	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	1.0	U	1.0	13	ug/L
1,2-Dibromoethane	106-93-4	1.0	U	1.0	3	ug/L
1,2-Dichlorobenzene	95-50-1	1.0	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	1.0	U	1.0	3	ug/L
1,2-Dichloropropane	78-87-5	1.0	U	1.0	3	ug/L
1,4-Dichlorobenzene	106-46-7	1.0	U	1.0	3	ug/L
2-Butanone	78-93-3	5.0	U	5.0	100	ug/L
2-Hexanone	591-78-6	5.0	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	5.0	U	5.0	100	ug/L
Acetone	67-64-1	5.0	U	5.0	100	ug/L
Acrylonitrile	107-13-1	5.0	U	5.0	200	ug/L
Benzene	71-43-2	1.0	U	1.0	3	ug/L
Bromochloromethane	74-97-5	1.0	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.40	U	0.40		ug/L
Bromoform	75-25-2	1.0	U	1.0	3	ug/L
Bromomethane	74-83-9	1.0	U	1.0	10	ug/L
Carbon disulfide	75-15-0	5.0	U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	1.0	U	1.0	5.5	ug/L
Chlorobenzene	108-90-7	1.0	U	1.0	3	ug/L
Chloroethane	75-00-3	1.0	U	1.0	10	ug/L
Chloroform	67-66-3	1.0	U	1.0	5	ug/L
Chloromethane	74-87-3	1.0	U	1.0	5.5	ug/L
cis-1,2-Dichloroethene	156-59-2	1.0	U	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20	U	0.20	5.5	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromomethane	74-95-3	1.0	U	1.0	10	ug/L
Ethylbenzene	100-41-4	1.0	U	1.0	5	ug/L
Iodomethane	74-88-4	2.0	U	2.0	10	ug/L
m,p-Xylenes	108-38-3/106-42-3	2.0	U	2.0	NE	ug/L
Methylene chloride	75-09-2	2.0	U	2.0		ug/L
o-Xylene	95-47-6	1.0	U	1.0	NE	ug/L
Styrene	100-42-5	1.0	U	1.0	10	ug/L

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ANALYTICAL REPORT

Sample ID:	MW-6	Project:	Alexander Co. Closed LF
Lab #:	C604535-16	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/24/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L23001		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results			NC SWS RL	Units
Tetrachloroethene	127-18-4	1.0	U	1.0	3	ug/L
Toluene	108-88-3	1.0	U	1.0	5	ug/L
trans-1,2-Dichloroethene	156-60-5	1.0	U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	5.5	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	1.0	U	1.0	100	ug/L
Trichloroethene	79-01-6	1.0	U	1.0	3	ug/L
Trichlorofluoromethane	75-69-4	1.0	U	1.0	5	ug/L
Vinyl acetate	108-05-4	2.0	U	2.0	50	ug/L
Vinyl chloride	75-01-4	1.0	U	1.0	5.5	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	54	50.0	108 %	70-130
Dibromofluoromethane	1868-53-7	43	50.0	86 %	73-138
Toluene-d8	2037-26-5	54	50.0	107 %	77-118

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ANALYTICAL REPORT

Sample ID:	MW-6	Project:	Alexander Co. Closed LF
Lab #:	C604535-16	Work Order #:	C604535
		Matrix:	Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results		NC SWS RL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.0100 U	0.0100	6	mg/L	EPA 6010B	EPA 3005A	6L19021
Arsenic	7440-38-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Barium	7440-39-3	**0.0426**	0.0100	100	mg/L	EPA 6010B	EPA 3005A	6L19021
Beryllium	7440-41-7	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19021
Cadmium	7440-43-9	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19021
Chromium	7440-47-3	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Cobalt	7440-48-4	**0.0241**	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Copper	7440-50-8	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Lead	7439-92-1	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Nickel	7440-02-0	0.0100 U	0.0100	50	mg/L	EPA 6010B	EPA 3005A	6L19021
Selenium	7782-49-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Silver	7440-22-4	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Thallium	7440-28-0	0.0100 U	0.0100	5.5	mg/L	EPA 6010B	EPA 3005A	6L19021
Vanadium	7440-62-2	0.0100 U	0.0100	25	mg/L	EPA 6010B	EPA 3005A	6L19021
Zinc	7440-66-6	**0.0162**	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021

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ANALYTICAL REPORT

Sample ID:	MW-14	Project:	Alexander Co. Closed LF
Lab #:	C604535-17	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/24/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L23001		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWS RL	Units
1,1,1,2-Tetrachloroethane	630-20-6	1.0	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	1.0	U	1.0	5	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	1.0	U	1.0	3	ug/L
1,1,2-Trichloroethane	79-00-5	1.0	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	**1.4**		1.0	5	ug/L
1,1-Dichloroethene	75-35-4	1.0	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	1.0	U	1.0	8	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	1.0	U	1.0	13	ug/L
1,2-Dibromoethane	106-93-4	1.0	U	1.0	3	ug/L
1,2-Dichlorobenzene	95-50-1	1.0	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	1.0	U	1.0	3	ug/L
1,2-Dichloropropane	78-87-5	1.0	U	1.0	3	ug/L
1,4-Dichlorobenzene	106-46-7	**4.0**		1.0	3	ug/L
2-Butanone	78-93-3	5.0	U	5.0	100	ug/L
2-Hexanone	591-78-6	5.0	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	5.0	U	5.0	100	ug/L
Acetone	67-64-1	5.0	U	5.0	100	ug/L
Acrylonitrile	107-13-1	5.0	U	5.0	200	ug/L
Benzene	71-43-2	**1.9**		1.0	3	ug/L
Bromochloromethane	74-97-5	1.0	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.40	U	0.40		ug/L
Bromoform	75-25-2	1.0	U	1.0	3	ug/L
Bromomethane	74-83-9	1.0	U	1.0	10	ug/L
Carbon disulfide	75-15-0	5.0	U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	1.0	U	1.0	5.5	ug/L
Chlorobenzene	108-90-7	**1.5**		1.0	3	ug/L
Chloroethane	75-00-3	**1.5**		1.0	10	ug/L
Chloroform	67-66-3	1.0	U	1.0	5	ug/L
Chloromethane	74-87-3	1.0	U	1.0	5.5	ug/L
cis-1,2-Dichloroethene	156-59-2	**9.3**		1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20	U	0.20	5.5	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromomethane	74-95-3	1.0	U	1.0	10	ug/L
Ethylbenzene	100-41-4	1.0	U	1.0	5	ug/L
Iodomethane	74-88-4	2.0	U	2.0	10	ug/L
m,p-Xylenes	108-38-3/106-42-3	2.0	U	2.0	NE	ug/L
Methylene chloride	75-09-2	2.0	U	2.0		ug/L
o-Xylene	95-47-6	1.0	U	1.0	NE	ug/L
Styrene	100-42-5	1.0	U	1.0	10	ug/L

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ANALYTICAL REPORT

Sample ID:	MW-14	Project:	Alexander Co. Closed LF
Lab #:	C604535-17	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/24/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L23001		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results			NC SWS RL	Units
Tetrachloroethene	127-18-4	1.0	U	1.0	3	ug/L
Toluene	108-88-3	1.0	U	1.0	5	ug/L
trans-1,2-Dichloroethene	156-60-5	1.0	U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	5.5	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	1.0	U	1.0	100	ug/L
Trichloroethene	79-01-6	1.0	U	1.0	3	ug/L
Trichlorofluoromethane	75-69-4	1.0	U	1.0	5	ug/L
Vinyl acetate	108-05-4	2.0	U	2.0	50	ug/L
Vinyl chloride	75-01-4	1.0	U	1.0	5.5	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	55	50.0	110 %	70-130
Dibromofluoromethane	1868-53-7	44	50.0	88 %	73-138
Toluene-d8	2037-26-5	55	50.0	109 %	77-118

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ANALYTICAL REPORT

Sample ID: MW-14
Lab #: C604535-17

Project: Alexander Co. Closed LF
Work Order #: C604535
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results		NC SWS RL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.0100 U	0.0100	6	mg/L	EPA 6010B	EPA 3005A	6L19021
Arsenic	7440-38-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Barium	7440-39-3	**0.107**	0.0100	100	mg/L	EPA 6010B	EPA 3005A	6L19021
Beryllium	7440-41-7	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19021
Cadmium	7440-43-9	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19021
Chromium	7440-47-3	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Cobalt	7440-48-4	**0.238**	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Copper	7440-50-8	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Lead	7439-92-1	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Nickel	7440-02-0	**0.0121**	0.0100	50	mg/L	EPA 6010B	EPA 3005A	6L19021
Selenium	7782-49-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Silver	7440-22-4	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Thallium	7440-28-0	0.0100 U	0.0100	5.5	mg/L	EPA 6010B	EPA 3005A	6L19021
Vanadium	7440-62-2	0.0100 U	0.0100	25	mg/L	EPA 6010B	EPA 3005A	6L19021
Zinc	7440-66-6	**0.0209**	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021

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ANALYTICAL REPORT

Sample ID:	MW-2	Project:	Alexander Co. Closed LF
Lab #:	C604535-18	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/24/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L23001		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWS RL	Units
1,1,1,2-Tetrachloroethane	630-20-6	1.0	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	1.0	U	1.0	5	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	1.0	U	1.0	3	ug/L
1,1,2-Trichloroethane	79-00-5	1.0	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	**2.0**		1.0	5	ug/L
1,1-Dichloroethene	75-35-4	1.0	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	1.0	U	1.0	8	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	1.0	U	1.0	13	ug/L
1,2-Dibromoethane	106-93-4	1.0	U	1.0	3	ug/L
1,2-Dichlorobenzene	95-50-1	1.0	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	1.0	U	1.0	3	ug/L
1,2-Dichloropropane	78-87-5	1.0	U	1.0	3	ug/L
1,4-Dichlorobenzene	106-46-7	**5.0**		1.0	3	ug/L
2-Butanone	78-93-3	5.0	U	5.0	100	ug/L
2-Hexanone	591-78-6	5.0	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	5.0	U	5.0	100	ug/L
Acetone	67-64-1	5.0	U	5.0	100	ug/L
Acrylonitrile	107-13-1	5.0	U	5.0	200	ug/L
Benzene	71-43-2	**3.0**		1.0	3	ug/L
Bromochloromethane	74-97-5	1.0	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.40	U	0.40		ug/L
Bromoform	75-25-2	1.0	U	1.0	3	ug/L
Bromomethane	74-83-9	1.0	U	1.0	10	ug/L
Carbon disulfide	75-15-0	5.0	U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	1.0	U	1.0	5.5	ug/L
Chlorobenzene	108-90-7	**1.8**		1.0	3	ug/L
Chloroethane	75-00-3	**1.9**		1.0	10	ug/L
Chloroform	67-66-3	1.0	U	1.0	5	ug/L
Chloromethane	74-87-3	1.0	U	1.0	5.5	ug/L
cis-1,2-Dichloroethene	156-59-2	**13**		1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20	U	0.20	5.5	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromomethane	74-95-3	1.0	U	1.0	10	ug/L
Ethylbenzene	100-41-4	1.0	U	1.0	5	ug/L
Iodomethane	74-88-4	2.0	U	2.0	10	ug/L
m,p-Xylenes	108-38-3/106-42-3	2.0	U	2.0	NE	ug/L
Methylene chloride	75-09-2	2.0	U	2.0		ug/L
o-Xylene	95-47-6	1.0	U	1.0	NE	ug/L
Styrene	100-42-5	1.0	U	1.0	10	ug/L

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ANALYTICAL REPORT

Sample ID:	MW-2	Project:	Alexander Co. Closed LF
Lab #:	C604535-18	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/24/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L23001		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWS RL	Units
Tetrachloroethene	127-18-4	1.0 U	1.0	3	ug/L
Toluene	108-88-3	1.0 U	1.0	5	ug/L
trans-1,2-Dichloroethene	156-60-5	1.0 U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20 U	0.20	5.5	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	1.0 U	1.0	100	ug/L
Trichloroethene	79-01-6	**1.9**	1.0	3	ug/L
Trichlorofluoromethane	75-69-4	1.0 U	1.0	5	ug/L
Vinyl acetate	108-05-4	2.0 U	2.0	50	ug/L
Vinyl chloride	75-01-4	1.0 U	1.0	5.5	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	55	50.0	111 %	70-130
Dibromofluoromethane	1868-53-7	44	50.0	87 %	73-138
Toluene-d8	2037-26-5	53	50.0	106 %	77-118

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ANALYTICAL REPORT

Sample ID:	MW-2	Project:	Alexander Co. Closed LF
Lab #:	C604535-18	Work Order #:	C604535
		Matrix:	Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results		NC SWS RL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.0100 U	0.0100	6	mg/L	EPA 6010B	EPA 3005A	6L19021
Arsenic	7440-38-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Barium	7440-39-3	**0.151**	0.0100	100	mg/L	EPA 6010B	EPA 3005A	6L19021
Beryllium	7440-41-7	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19021
Cadmium	7440-43-9	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19021
Chromium	7440-47-3	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Cobalt	7440-48-4	**0.448**	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Copper	7440-50-8	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Lead	7439-92-1	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Nickel	7440-02-0	0.0100 U	0.0100	50	mg/L	EPA 6010B	EPA 3005A	6L19021
Selenium	7782-49-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Silver	7440-22-4	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Thallium	7440-28-0	0.0100 U	0.0100	5.5	mg/L	EPA 6010B	EPA 3005A	6L19021
Vanadium	7440-62-2	0.0100 U	0.0100	25	mg/L	EPA 6010B	EPA 3005A	6L19021
Zinc	7440-66-6	**0.0157**	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021

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ANALYTICAL REPORT

Sample ID:	MW-1	Project:	Alexander Co. Closed LF
Lab #:	C604535-19	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/24/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L23001		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWS RL	Units
1,1,1,2-Tetrachloroethane	630-20-6	1.0	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	1.0	U	1.0	5	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	1.0	U	1.0	3	ug/L
1,1,2-Trichloroethane	79-00-5	1.0	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	**2.1**		1.0	5	ug/L
1,1-Dichloroethene	75-35-4	1.0	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	1.0	U	1.0	8	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	1.0	U	1.0	13	ug/L
1,2-Dibromoethane	106-93-4	1.0	U	1.0	3	ug/L
1,2-Dichlorobenzene	95-50-1	1.0	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	1.0	U	1.0	3	ug/L
1,2-Dichloropropane	78-87-5	1.0	U	1.0	3	ug/L
1,4-Dichlorobenzene	106-46-7	**1.3**		1.0	3	ug/L
2-Butanone	78-93-3	5.0	U	5.0	100	ug/L
2-Hexanone	591-78-6	5.0	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	5.0	U	5.0	100	ug/L
Acetone	67-64-1	5.0	U	5.0	100	ug/L
Acrylonitrile	107-13-1	5.0	U	5.0	200	ug/L
Benzene	71-43-2	**4.2**		1.0	3	ug/L
Bromochloromethane	74-97-5	1.0	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.40	U	0.40		ug/L
Bromoform	75-25-2	1.0	U	1.0	3	ug/L
Bromomethane	74-83-9	1.0	U	1.0	10	ug/L
Carbon disulfide	75-15-0	5.0	U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	1.0	U	1.0	5.5	ug/L
Chlorobenzene	108-90-7	1.0	U	1.0	3	ug/L
Chloroethane	75-00-3	1.0	U	1.0	10	ug/L
Chloroform	67-66-3	1.0	U	1.0	5	ug/L
Chloromethane	74-87-3	1.0	U	1.0	5.5	ug/L
cis-1,2-Dichloroethene	156-59-2	**6.6**		1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20	U	0.20	5.5	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromomethane	74-95-3	1.0	U	1.0	10	ug/L
Ethylbenzene	100-41-4	1.0	U	1.0	5	ug/L
Iodomethane	74-88-4	2.0	U	2.0	10	ug/L
m,p-Xylenes	108-38-3/106-42-3	2.0	U	2.0	NE	ug/L
Methylene chloride	75-09-2	2.0	U	2.0		ug/L
o-Xylene	95-47-6	1.0	U	1.0	NE	ug/L
Styrene	100-42-5	1.0	U	1.0	10	ug/L

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ANALYTICAL REPORT

Sample ID:	MW-1	Project:	Alexander Co. Closed LF
Lab #:	C604535-19	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/24/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L23001		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWS RL	Units
Tetrachloroethene	127-18-4	1.0 U	1.0	3	ug/L
Toluene	108-88-3	**2.0**	1.0	5	ug/L
trans-1,2-Dichloroethene	156-60-5	1.0 U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20 U	0.20	5.5	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	1.0 U	1.0	100	ug/L
Trichloroethene	79-01-6	1.0 U	1.0	3	ug/L
Trichlorofluoromethane	75-69-4	1.0 U	1.0	5	ug/L
Vinyl acetate	108-05-4	2.0 U	2.0	50	ug/L
Vinyl chloride	75-01-4	1.0 U	1.0	5.5	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	55	50.0	109 %	70-130
Dibromofluoromethane	1868-53-7	43	50.0	87 %	73-138
Toluene-d8	2037-26-5	56	50.0	112 %	77-118

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ANALYTICAL REPORT

Sample ID: MW-1
Lab #: C604535-19

Project: Alexander Co. Closed LF
Work Order #: C604535
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results		NC SWS RL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.0100 U	0.0100	6	mg/L	EPA 6010B	EPA 3005A	6L19021
Arsenic	7440-38-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Barium	7440-39-3	**0.0360**	0.0100	100	mg/L	EPA 6010B	EPA 3005A	6L19021
Beryllium	7440-41-7	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19021
Cadmium	7440-43-9	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19021
Chromium	7440-47-3	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Cobalt	7440-48-4	**0.0186**	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Copper	7440-50-8	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Lead	7439-92-1	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Nickel	7440-02-0	0.0100 U	0.0100	50	mg/L	EPA 6010B	EPA 3005A	6L19021
Selenium	7782-49-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Silver	7440-22-4	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Thallium	7440-28-0	0.0100 U	0.0100	5.5	mg/L	EPA 6010B	EPA 3005A	6L19021
Vanadium	7440-62-2	0.0100 U	0.0100	25	mg/L	EPA 6010B	EPA 3005A	6L19021
Zinc	7440-66-6	**0.0103**	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021

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ANALYTICAL REPORT

Sample ID:	MW-1B	Project:	Alexander Co. Closed LF
Lab #:	C604535-20	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/24/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L23001		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWS RL	Units
1,1,1,2-Tetrachloroethane	630-20-6	1.0	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	1.0	U	1.0	5	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	1.0	U	1.0	3	ug/L
1,1,2-Trichloroethane	79-00-5	1.0	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	**1.6**		1.0	5	ug/L
1,1-Dichloroethene	75-35-4	1.0	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	1.0	U	1.0	8	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	1.0	U	1.0	13	ug/L
1,2-Dibromoethane	106-93-4	1.0	U	1.0	3	ug/L
1,2-Dichlorobenzene	95-50-1	1.0	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	1.0	U	1.0	3	ug/L
1,2-Dichloropropane	78-87-5	1.0	U	1.0	3	ug/L
1,4-Dichlorobenzene	106-46-7	**1.9**		1.0	3	ug/L
2-Butanone	78-93-3	5.0	U	5.0	100	ug/L
2-Hexanone	591-78-6	5.0	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	5.0	U	5.0	100	ug/L
Acetone	67-64-1	5.0	U	5.0	100	ug/L
Acrylonitrile	107-13-1	5.0	U	5.0	200	ug/L
Benzene	71-43-2	**1.3**		1.0	3	ug/L
Bromochloromethane	74-97-5	1.0	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.40	U	0.40		ug/L
Bromoform	75-25-2	1.0	U	1.0	3	ug/L
Bromomethane	74-83-9	1.0	U	1.0	10	ug/L
Carbon disulfide	75-15-0	5.0	U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	1.0	U	1.0	5.5	ug/L
Chlorobenzene	108-90-7	1.0	U	1.0	3	ug/L
Chloroethane	75-00-3	1.0	U	1.0	10	ug/L
Chloroform	67-66-3	1.0	U	1.0	5	ug/L
Chloromethane	74-87-3	1.0	U	1.0	5.5	ug/L
cis-1,2-Dichloroethene	156-59-2	**3.3**		1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20	U	0.20	5.5	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromomethane	74-95-3	1.0	U	1.0	10	ug/L
Ethylbenzene	100-41-4	1.0	U	1.0	5	ug/L
Iodomethane	74-88-4	2.0	U	2.0	10	ug/L
m,p-Xylenes	108-38-3/106-42-3	**3.7**		2.0	NE	ug/L
Methylene chloride	75-09-2	2.0	U	2.0		ug/L
o-Xylene	95-47-6	**1.8**		1.0	NE	ug/L
Styrene	100-42-5	1.0	U	1.0	10	ug/L

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ANALYTICAL REPORT

Sample ID:	MW-1B	Project:	Alexander Co. Closed LF
Lab #:	C604535-20	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/24/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L23001		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWS RL	Units
Tetrachloroethene	127-18-4	1.0	U	1.0	3	ug/L
Toluene	108-88-3	1.0	U	1.0	5	ug/L
trans-1,2-Dichloroethene	156-60-5	1.0	U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	5.5	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	1.0	U	1.0	100	ug/L
Trichloroethene	79-01-6	1.0	U	1.0	3	ug/L
Trichlorofluoromethane	75-69-4	1.0	U	1.0	5	ug/L
Vinyl acetate	108-05-4	2.0	U	2.0	50	ug/L
Vinyl chloride	75-01-4	1.0	U	1.0	5.5	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	56	50.0	111 %	70-130
Dibromofluoromethane	1868-53-7	42	50.0	84 %	73-138
Toluene-d8	2037-26-5	56	50.0	111 %	77-118

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ANALYTICAL REPORT

Sample ID:	MW-1B	Project:	Alexander Co. Closed LF
Lab #:	C604535-20	Work Order #:	C604535
		Matrix:	Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results		NC SWS RL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.0100 U	0.0100	6	mg/L	EPA 6010B	EPA 3005A	6L19021
Arsenic	7440-38-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Barium	7440-39-3	**0.0666**	0.0100	100	mg/L	EPA 6010B	EPA 3005A	6L19021
Beryllium	7440-41-7	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19021
Cadmium	7440-43-9	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19021
Chromium	7440-47-3	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Cobalt	7440-48-4	**0.0698**	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Copper	7440-50-8	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Lead	7439-92-1	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Nickel	7440-02-0	**0.0103**	0.0100	50	mg/L	EPA 6010B	EPA 3005A	6L19021
Selenium	7782-49-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Silver	7440-22-4	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021
Thallium	7440-28-0	0.0100 U	0.0100	5.5	mg/L	EPA 6010B	EPA 3005A	6L19021
Vanadium	7440-62-2	0.0100 U	0.0100	25	mg/L	EPA 6010B	EPA 3005A	6L19021
Zinc	7440-66-6	**0.0151**	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19021

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ANALYTICAL REPORT

Sample ID:	SW-4R	Project:	Alexander Co. Closed LF
Lab #:	C604535-21	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/24/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L23001		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWS RL	Units
1,1,1,2-Tetrachloroethane	630-20-6	1.0	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	1.0	U	1.0	5	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	1.0	U	1.0	3	ug/L
1,1,2-Trichloroethane	79-00-5	1.0	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	1.0	U	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	1.0	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	1.0	U	1.0	8	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	1.0	U	1.0	13	ug/L
1,2-Dibromoethane	106-93-4	1.0	U	1.0	3	ug/L
1,2-Dichlorobenzene	95-50-1	1.0	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	1.0	U	1.0	3	ug/L
1,2-Dichloropropane	78-87-5	1.0	U	1.0	3	ug/L
1,4-Dichlorobenzene	106-46-7	1.0	U	1.0	3	ug/L
2-Butanone	78-93-3	5.0	U	5.0	100	ug/L
2-Hexanone	591-78-6	5.0	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	5.0	U	5.0	100	ug/L
Acetone	67-64-1	5.0	U	5.0	100	ug/L
Acrylonitrile	107-13-1	5.0	U	5.0	200	ug/L
Benzene	71-43-2	1.0	U	1.0	3	ug/L
Bromochloromethane	74-97-5	1.0	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.40	U	0.40		ug/L
Bromoform	75-25-2	1.0	U	1.0	3	ug/L
Bromomethane	74-83-9	1.0	U	1.0	10	ug/L
Carbon disulfide	75-15-0	5.0	U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	1.0	U	1.0	5.5	ug/L
Chlorobenzene	108-90-7	1.0	U	1.0	3	ug/L
Chloroethane	75-00-3	1.0	U	1.0	10	ug/L
Chloroform	67-66-3	1.0	U	1.0	5	ug/L
Chloromethane	74-87-3	1.0	U	1.0	5.5	ug/L
cis-1,2-Dichloroethene	156-59-2	1.0	U	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20	U	0.20	5.5	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromomethane	74-95-3	1.0	U	1.0	10	ug/L
Ethylbenzene	100-41-4	1.0	U	1.0	5	ug/L
Iodomethane	74-88-4	2.0	U	2.0	10	ug/L
m,p-Xylenes	108-38-3/106-42-3	2.0	U	2.0	NE	ug/L
Methylene chloride	75-09-2	2.0	U	2.0		ug/L
o-Xylene	95-47-6	1.0	U	1.0	NE	ug/L
Styrene	100-42-5	1.0	U	1.0	10	ug/L

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ANALYTICAL REPORT

Sample ID:	SW-4R	Project:	Alexander Co. Closed LF
Lab #:	C604535-21	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/24/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L23001		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results			NC SWS RL	Units
Tetrachloroethene	127-18-4	1.0	U	1.0	3	ug/L
Toluene	108-88-3	1.0	U	1.0	5	ug/L
trans-1,2-Dichloroethene	156-60-5	1.0	U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	5.5	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	1.0	U	1.0	100	ug/L
Trichloroethene	79-01-6	1.0	U	1.0	3	ug/L
Trichlorofluoromethane	75-69-4	1.0	U	1.0	5	ug/L
Vinyl acetate	108-05-4	2.0	U	2.0	50	ug/L
Vinyl chloride	75-01-4	1.0	U	1.0	5.5	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	55	50.0	109 %	70-130
Dibromofluoromethane	1868-53-7	43	50.0	87 %	73-138
Toluene-d8	2037-26-5	54	50.0	109 %	77-118

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ANALYTICAL REPORT

Sample ID:	SW-4R	Project:	Alexander Co. Closed LF
Lab #:	C604535-21	Work Order #:	C604535
		Matrix:	Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results		NC SWS RL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.0100 U	0.0100	6	mg/L	EPA 6010B	EPA 3005A	6L19020
Arsenic	7440-38-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19020
Barium	7440-39-3	**0.0161**	0.0100	100	mg/L	EPA 6010B	EPA 3005A	6L19020
Beryllium	7440-41-7	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19020
Cadmium	7440-43-9	0.00100 U	0.00100	1	mg/L	EPA 6010B	EPA 3005A	6L19020
Chromium	7440-47-3	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19020
Cobalt	7440-48-4	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19020
Copper	7440-50-8	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19020
Lead	7439-92-1	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19020
Nickel	7440-02-0	0.0100 U	0.0100	50	mg/L	EPA 6010B	EPA 3005A	6L19020
Selenium	7782-49-2	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19020
Silver	7440-22-4	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19020
Thallium	7440-28-0	0.0100 U	0.0100	5.5	mg/L	EPA 6010B	EPA 3005A	6L19020
Vanadium	7440-62-2	0.0100 U	0.0100	25	mg/L	EPA 6010B	EPA 3005A	6L19020
Zinc	7440-66-6	0.0100 U	0.0100	10	mg/L	EPA 6010B	EPA 3005A	6L19020

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ANALYTICAL REPORT

Sample ID:	TB	Project:	Alexander Co. Closed LF
Lab #:	C604535-22	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/24/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L23001		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWS RL	Units
1,1,1,2-Tetrachloroethane	630-20-6	1.0	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	1.0	U	1.0	5	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	1.0	U	1.0	3	ug/L
1,1,2-Trichloroethane	79-00-5	1.0	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	1.0	U	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	1.0	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	1.0	U	1.0	8	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	1.0	U	1.0	13	ug/L
1,2-Dibromoethane	106-93-4	1.0	U	1.0	3	ug/L
1,2-Dichlorobenzene	95-50-1	1.0	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	1.0	U	1.0	3	ug/L
1,2-Dichloropropane	78-87-5	1.0	U	1.0	3	ug/L
1,4-Dichlorobenzene	106-46-7	1.0	U	1.0	3	ug/L
2-Butanone	78-93-3	5.0	U	5.0	100	ug/L
2-Hexanone	591-78-6	5.0	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	5.0	U	5.0	100	ug/L
Acetone	67-64-1	5.0	U	5.0	100	ug/L
Acrylonitrile	107-13-1	5.0	U	5.0	200	ug/L
Benzene	71-43-2	1.0	U	1.0	3	ug/L
Bromochloromethane	74-97-5	1.0	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.40	U	0.40		ug/L
Bromoform	75-25-2	1.0	U	1.0	3	ug/L
Bromomethane	74-83-9	1.0	U	1.0	10	ug/L
Carbon disulfide	75-15-0	5.0	U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	1.0	U	1.0	5.5	ug/L
Chlorobenzene	108-90-7	1.0	U	1.0	3	ug/L
Chloroethane	75-00-3	1.0	U	1.0	10	ug/L
Chloroform	67-66-3	1.0	U	1.0	5	ug/L
Chloromethane	74-87-3	1.0	U	1.0	5.5	ug/L
cis-1,2-Dichloroethene	156-59-2	1.0	U	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20	U	0.20	5.5	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromomethane	74-95-3	1.0	U	1.0	10	ug/L
Ethylbenzene	100-41-4	1.0	U	1.0	5	ug/L
Iodomethane	74-88-4	2.0	U	2.0	10	ug/L
m,p-Xylenes	108-38-3/106-42-3	2.0	U	2.0	NE	ug/L
Methylene chloride	75-09-2	2.0	U	2.0		ug/L
o-Xylene	95-47-6	1.0	U	1.0	NE	ug/L
Styrene	100-42-5	1.0	U	1.0	10	ug/L

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ANALYTICAL REPORT

Sample ID:	TB	Project:	Alexander Co. Closed LF
Lab #:	C604535-22	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/24/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L23001		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results			NC SWS RL	Units
Tetrachloroethene	127-18-4	1.0	U	1.0	3	ug/L
Toluene	108-88-3	1.0	U	1.0	5	ug/L
trans-1,2-Dichloroethene	156-60-5	1.0	U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	5.5	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	1.0	U	1.0	100	ug/L
Trichloroethene	79-01-6	1.0	U	1.0	3	ug/L
Trichlorofluoromethane	75-69-4	1.0	U	1.0	5	ug/L
Vinyl acetate	108-05-4	2.0	U	2.0	50	ug/L
Vinyl chloride	75-01-4	1.0	U	1.0	5.5	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	54	50.0	107 %	70-130
Dibromofluoromethane	1868-53-7	42	50.0	85 %	73-138
Toluene-d8	2037-26-5	53	50.0	106 %	77-118

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ANALYTICAL REPORT

Sample ID:	FB	Project:	Alexander Co. Closed LF
Lab #:	C604535-23	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/24/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L23001		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWS RL	Units
1,1,1,2-Tetrachloroethane	630-20-6	1.0	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	1.0	U	1.0	5	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	1.0	U	1.0	3	ug/L
1,1,2-Trichloroethane	79-00-5	1.0	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	1.0	U	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	1.0	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	1.0	U	1.0	8	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	1.0	U	1.0	13	ug/L
1,2-Dibromoethane	106-93-4	1.0	U	1.0	3	ug/L
1,2-Dichlorobenzene	95-50-1	1.0	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	1.0	U	1.0	3	ug/L
1,2-Dichloropropane	78-87-5	1.0	U	1.0	3	ug/L
1,4-Dichlorobenzene	106-46-7	1.0	U	1.0	3	ug/L
2-Butanone	78-93-3	5.0	U	5.0	100	ug/L
2-Hexanone	591-78-6	5.0	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	5.0	U	5.0	100	ug/L
Acetone	67-64-1	5.0	U	5.0	100	ug/L
Acrylonitrile	107-13-1	5.0	U	5.0	200	ug/L
Benzene	71-43-2	1.0	U	1.0	3	ug/L
Bromochloromethane	74-97-5	1.0	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.40	U	0.40		ug/L
Bromoform	75-25-2	1.0	U	1.0	3	ug/L
Bromomethane	74-83-9	1.0	U	1.0	10	ug/L
Carbon disulfide	75-15-0	5.0	U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	1.0	U	1.0	5.5	ug/L
Chlorobenzene	108-90-7	1.0	U	1.0	3	ug/L
Chloroethane	75-00-3	1.0	U	1.0	10	ug/L
Chloroform	67-66-3	1.0	U	1.0	5	ug/L
Chloromethane	74-87-3	1.0	U	1.0	5.5	ug/L
cis-1,2-Dichloroethene	156-59-2	1.0	U	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20	U	0.20	5.5	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromomethane	74-95-3	1.0	U	1.0	10	ug/L
Ethylbenzene	100-41-4	1.0	U	1.0	5	ug/L
Iodomethane	74-88-4	2.0	U	2.0	10	ug/L
m,p-Xylenes	108-38-3/106-42-3	2.0	U	2.0	NE	ug/L
Methylene chloride	75-09-2	2.0	U	2.0		ug/L
o-Xylene	95-47-6	1.0	U	1.0	NE	ug/L
Styrene	100-42-5	1.0	U	1.0	10	ug/L

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ANALYTICAL REPORT

Sample ID:	FB	Project:	Alexander Co. Closed LF
Lab #:	C604535-23	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	12/24/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L23001		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results			NC SWS RL	Units
Tetrachloroethene	127-18-4	1.0	U	1.0	3	ug/L
Toluene	108-88-3	1.0	U	1.0	5	ug/L
trans-1,2-Dichloroethene	156-60-5	1.0	U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	5.5	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	1.0	U	1.0	100	ug/L
Trichloroethene	79-01-6	1.0	U	1.0	3	ug/L
Trichlorofluoromethane	75-69-4	1.0	U	1.0	5	ug/L
Vinyl acetate	108-05-4	2.0	U	2.0	50	ug/L
Vinyl chloride	75-01-4	1.0	U	1.0	5.5	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	57	50.0	114 %	70-130
Dibromofluoromethane	1868-53-7	43	50.0	86 %	73-138
Toluene-d8	2037-26-5	56	50.0	111 %	77-118

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ANALYTICAL REPORT

Sample ID:	EB	Project:	Alexander Co. Closed LF
Lab #:	C604535-24	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Water
Analyzed:	12/24/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L23001		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWS RL	Units
1,1,1,2-Tetrachloroethane	630-20-6	1.0	U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	1.0	U	1.0	5	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	1.0	U	1.0	3	ug/L
1,1,2-Trichloroethane	79-00-5	1.0	U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	1.0	U	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	1.0	U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	1.0	U	1.0	8	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	1.0	U	1.0	13	ug/L
1,2-Dibromoethane	106-93-4	1.0	U	1.0	3	ug/L
1,2-Dichlorobenzene	95-50-1	1.0	U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	1.0	U	1.0	3	ug/L
1,2-Dichloropropane	78-87-5	1.0	U	1.0	3	ug/L
1,4-Dichlorobenzene	106-46-7	1.0	U	1.0	3	ug/L
2-Butanone	78-93-3	5.0	U	5.0	100	ug/L
2-Hexanone	591-78-6	5.0	U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	5.0	U	5.0	100	ug/L
Acetone	67-64-1	5.0	U	5.0	100	ug/L
Acrylonitrile	107-13-1	5.0	U	5.0	200	ug/L
Benzene	71-43-2	1.0	U	1.0	3	ug/L
Bromochloromethane	74-97-5	1.0	U	1.0	3	ug/L
Bromodichloromethane	75-27-4	0.40	U	0.40		ug/L
Bromoform	75-25-2	1.0	U	1.0	3	ug/L
Bromomethane	74-83-9	1.0	U	1.0	10	ug/L
Carbon disulfide	75-15-0	5.0	U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	1.0	U	1.0	5.5	ug/L
Chlorobenzene	108-90-7	1.0	U	1.0	3	ug/L
Chloroethane	75-00-3	1.0	U	1.0	10	ug/L
Chloroform	67-66-3	1.0	U	1.0	5	ug/L
Chloromethane	74-87-3	1.0	U	1.0	5.5	ug/L
cis-1,2-Dichloroethene	156-59-2	1.0	U	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	0.20	U	0.20	5.5	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromochloromethane	124-48-1	1.0	U	1.0	3	ug/L
Dibromomethane	74-95-3	1.0	U	1.0	10	ug/L
Ethylbenzene	100-41-4	1.0	U	1.0	5	ug/L
Iodomethane	74-88-4	2.0	U	2.0	10	ug/L
m,p-Xylenes	108-38-3/106-42-3	2.0	U	2.0	NE	ug/L
Methylene chloride	75-09-2	2.0	U	2.0		ug/L
o-Xylene	95-47-6	1.0	U	1.0	NE	ug/L
Styrene	100-42-5	1.0	U	1.0	10	ug/L

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ANALYTICAL REPORT

Sample ID:	EB	Project:	Alexander Co. Closed LF
Lab #:	C604535-24	Work Order #:	C604535
Prep. Method:	EPA 5030B_MS	Matrix:	Water
Analyzed:	12/24/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6L23001		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results		NC SWS RL	Units
Tetrachloroethene	127-18-4	1.0	U	1.0	3	ug/L
Toluene	108-88-3	1.0	U	1.0	5	ug/L
trans-1,2-Dichloroethene	156-60-5	1.0	U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	0.20	U	0.20	5.5	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	1.0	U	1.0	100	ug/L
Trichloroethene	79-01-6	1.0	U	1.0	3	ug/L
Trichlorofluoromethane	75-69-4	1.0	U	1.0	5	ug/L
Vinyl acetate	108-05-4	2.0	U	2.0	50	ug/L
Vinyl chloride	75-01-4	1.0	U	1.0	5.5	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	57	50.0	114 %	70-130
Dibromofluoromethane	1868-53-7	44	50.0	88 %	73-138
Toluene-d8	2037-26-5	55	50.0	109 %	77-118

QUALITY CONTROL

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

Volatile Organic Compounds by GCMS - Quality Control

Batch 6L22015 - EPA 5030B_MS

Blank (6L22015-BLK1) Prepared: 12/22/2006 12:54 Analyzed: 12/22/2006 20:40

Acetone	5.0 U	5.0	ug/L
Acrylonitrile	5.0 U	5.0	ug/L
Benzene	1.0 U	1.0	ug/L
2-Butanone	5.0 U	5.0	ug/L
2-Hexanone	5.0 U	5.0	ug/L
Iodomethane	2.0 U	2.0	ug/L
Tetrachloroethene	1.0 U	1.0	ug/L
4-Methyl-2-pentanone	5.0 U	5.0	ug/L
Bromochloromethane	1.0 U	1.0	ug/L
Trichloroethene	1.0 U	1.0	ug/L
Bromodichloromethane	0.40 U	0.40	ug/L
Bromoform	1.0 U	1.0	ug/L
Bromomethane	1.0 U	1.0	ug/L
Carbon disulfide	5.0 U	5.0	ug/L
Carbon tetrachloride	1.0 U	1.0	ug/L
Chlorobenzene	1.0 U	1.0	ug/L
Chloroethane	1.0 U	1.0	ug/L
Chloroform	1.0 U	1.0	ug/L
Chloromethane	1.0 U	1.0	ug/L
Dibromochloromethane	1.0 U	1.0	ug/L
1,2-Dibromo-3-chloropropane	1.0 U	1.0	ug/L
1,2-Dibromoethane	1.0 U	1.0	ug/L
Dibromomethane	1.0 U	1.0	ug/L
1,2-Dichlorobenzene	1.0 U	1.0	ug/L
1,4-Dichlorobenzene	1.0 U	1.0	ug/L
trans-1,4-Dichloro-2-butene	1.0 U	1.0	ug/L
1,1-Dichloroethane	1.0 U	1.0	ug/L
1,2-Dichloroethane	1.0 U	1.0	ug/L
1,1-Dichloroethene	1.0 U	1.0	ug/L
cis-1,2-Dichloroethene	1.0 U	1.0	ug/L
trans-1,2-Dichloroethene	1.0 U	1.0	ug/L
1,2-Dichloropropane	1.0 U	1.0	ug/L
cis-1,3-Dichloropropene	0.20 U	0.20	ug/L
trans-1,3-Dichloropropene	0.20 U	0.20	ug/L
Ethylbenzene	1.0 U	1.0	ug/L
Methylene chloride	2.0 U	2.0	ug/L
Styrene	1.0 U	1.0	ug/L
1,1,1,2-Tetrachloroethane	1.0 U	1.0	ug/L
1,1,2,2-Tetrachloroethane	1.0 U	1.0	ug/L
Toluene	1.0 U	1.0	ug/L
1,1,1-Trichloroethane	1.0 U	1.0	ug/L
1,1,2-Trichloroethane	1.0 U	1.0	ug/L
Trichlorofluoromethane	1.0 U	1.0	ug/L
1,2,3-Trichloropropane	1.0 U	1.0	ug/L
Vinyl acetate	2.0 U	2.0	ug/L

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Volatile Organic Compounds by GCMS - Quality Control										
Batch 6L22015 - EPA 5030B_MS										
Blank (6L22015-BLK1) Continued				Prepared: 12/22/2006 12:54 Analyzed: 12/22/2006 20:40						
Vinyl chloride	1.0 U	1.0	ug/L							
m,p-Xylenes	2.0 U	2.0	ug/L							
o-Xylene	1.0 U	1.0	ug/L							
Surrogate: Toluene-d8	*51*		*ug/L*	*50.0*		*101*	*77-118*			
Surrogate: 4-Bromofluorobenzene	*49*		*ug/L*	*50.0*		*98*	*70-130*			
Surrogate: Dibromofluoromethane	*43*		*ug/L*	*50.0*		*85*	*73-138*			
Blank (6L22015-BLK2)				Prepared: 12/22/2006 12:54 Analyzed: 12/23/2006 12:31						
Acetone	5.0 U	5.0	ug/L							
Acrylonitrile	5.0 U	5.0	ug/L							
Benzene	1.0 U	1.0	ug/L							
2-Butanone	5.0 U	5.0	ug/L							
2-Hexanone	5.0 U	5.0	ug/L							
Iodomethane	2.0 U	2.0	ug/L							
Tetrachloroethene	1.0 U	1.0	ug/L							
4-Methyl-2-pentanone	5.0 U	5.0	ug/L							
Bromochloromethane	1.0 U	1.0	ug/L							
Trichloroethene	1.0 U	1.0	ug/L							
Bromodichloromethane	0.40 U	0.40	ug/L							
Bromoform	1.0 U	1.0	ug/L							
Bromomethane	1.0 U	1.0	ug/L							
Carbon disulfide	5.0 U	5.0	ug/L							
Carbon tetrachloride	1.0 U	1.0	ug/L							
Chlorobenzene	1.0 U	1.0	ug/L							
Chloroethane	1.0 U	1.0	ug/L							
Chloroform	1.0 U	1.0	ug/L							
Chloromethane	1.0 U	1.0	ug/L							
Dibromochloromethane	1.0 U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	1.0 U	1.0	ug/L							
1,2-Dibromoethane	1.0 U	1.0	ug/L							
Dibromomethane	1.0 U	1.0	ug/L							
1,2-Dichlorobenzene	1.0 U	1.0	ug/L							
1,4-Dichlorobenzene	1.0 U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	1.0 U	1.0	ug/L							
1,1-Dichloroethane	1.0 U	1.0	ug/L							
1,2-Dichloroethane	1.0 U	1.0	ug/L							
1,1-Dichloroethene	1.0 U	1.0	ug/L							
cis-1,2-Dichloroethene	1.0 U	1.0	ug/L							
trans-1,2-Dichloroethene	1.0 U	1.0	ug/L							
1,2-Dichloropropane	1.0 U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20 U	0.20	ug/L							
trans-1,3-Dichloropropene	0.20 U	0.20	ug/L							
Ethylbenzene	1.0 U	1.0	ug/L							
Methylene chloride	2.0 U	2.0	ug/L							
Styrene	1.0 U	1.0	ug/L							

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Volatile Organic Compounds by GCMS - Quality Control										
Batch 6L22015 - EPA 5030B_MS										
Blank (6L22015-BLK2) Continued				Prepared: 12/22/2006 12:54 Analyzed: 12/23/2006 12:31						
1,1,1,2-Tetrachloroethane	1.0 U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	1.0 U	1.0	ug/L							
Toluene	1.0 U	1.0	ug/L							
1,1,1-Trichloroethane	1.0 U	1.0	ug/L							
1,1,2-Trichloroethane	1.0 U	1.0	ug/L							
Trichlorofluoromethane	1.0 U	1.0	ug/L							
1,2,3-Trichloropropane	1.0 U	1.0	ug/L							
Vinyl acetate	2.0 U	2.0	ug/L							
Vinyl chloride	1.0 U	1.0	ug/L							
m,p-Xylenes	2.0 U	2.0	ug/L							
o-Xylene	1.0 U	1.0	ug/L							
Surrogate: Toluene-d8	*55*		*ug/L*	*50.0*		*109*	*77-118*			
Surrogate: 4-Bromofluorobenzene	*57*		*ug/L*	*50.0*		*113*	*70-130*			
Surrogate: Dibromofluoromethane	*43*		*ug/L*	*50.0*		*87*	*73-138*			
Blank (6L22015-BLK3)				Prepared: 12/22/2006 12:54 Analyzed: 12/24/2006 10:59						
Acetone	5.0 U	5.0	ug/L							
Acrylonitrile	5.0 U	5.0	ug/L							
Benzene	1.0 U	1.0	ug/L							
2-Butanone	5.0 U	5.0	ug/L							
2-Hexanone	5.0 U	5.0	ug/L							
Iodomethane	2.0 U	2.0	ug/L							
Tetrachloroethene	1.0 U	1.0	ug/L							
4-Methyl-2-pentanone	5.0 U	5.0	ug/L							
Bromochloromethane	1.0 U	1.0	ug/L							
Trichloroethene	1.0 U	1.0	ug/L							
Bromodichloromethane	0.40 U	0.40	ug/L							
Bromoform	1.0 U	1.0	ug/L							
Bromomethane	1.0 U	1.0	ug/L							
Carbon disulfide	5.0 U	5.0	ug/L							
Carbon tetrachloride	1.0 U	1.0	ug/L							
Chlorobenzene	1.0 U	1.0	ug/L							
Chloroethane	1.0 U	1.0	ug/L							
Chloroform	1.0 U	1.0	ug/L							
Chloromethane	1.0 U	1.0	ug/L							
Dibromochloromethane	1.0 U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	1.0 U	1.0	ug/L							
1,2-Dibromoethane	1.0 U	1.0	ug/L							
Dibromomethane	1.0 U	1.0	ug/L							
1,2-Dichlorobenzene	1.0 U	1.0	ug/L							
1,4-Dichlorobenzene	1.0 U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	1.0 U	1.0	ug/L							
1,1-Dichloroethane	1.0 U	1.0	ug/L							
1,2-Dichloroethane	1.0 U	1.0	ug/L							
1,1-Dichloroethene	1.0 U	1.0	ug/L							

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Volatile Organic Compounds by GCMS - Quality Control										
Batch 6L22015 - EPA 5030B_MS										
Blank (6L22015-BLK3) Continued				Prepared: 12/22/2006 12:54 Analyzed: 12/24/2006 10:59						
cis-1,2-Dichloroethene	1.0 U	1.0	ug/L							
trans-1,2-Dichloroethene	1.0 U	1.0	ug/L							
1,2-Dichloropropane	1.0 U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20 U	0.20	ug/L							
trans-1,3-Dichloropropene	0.20 U	0.20	ug/L							
Ethylbenzene	1.0 U	1.0	ug/L							
Methylene chloride	2.0 U	2.0	ug/L							
Styrene	1.0 U	1.0	ug/L							
1,1,1,2-Tetrachloroethane	1.0 U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	1.0 U	1.0	ug/L							
Toluene	1.0 U	1.0	ug/L							
1,1,1-Trichloroethane	1.0 U	1.0	ug/L							
1,1,2-Trichloroethane	1.0 U	1.0	ug/L							
Trichlorofluoromethane	1.0 U	1.0	ug/L							
1,2,3-Trichloropropane	1.0 U	1.0	ug/L							
Vinyl acetate	2.0 U	2.0	ug/L							
Vinyl chloride	1.0 U	1.0	ug/L							
m,p-Xylenes	2.0 U	2.0	ug/L							
o-Xylene	1.0 U	1.0	ug/L							
Surrogate: Toluene-d8	*53*		*ug/L*	*50.0*		*106*	*77-118*			
Surrogate: 4-Bromofluorobenzene	*54*		*ug/L*	*50.0*		*107*	*70-130*			
Surrogate: Dibromofluoromethane	*42*		*ug/L*	*50.0*		*84*	*73-138*			
Blank (6L22015-BLK4)				Prepared: 12/22/2006 12:54 Analyzed: 12/26/2006 20:52						
Acetone	5.0 U	5.0	ug/L							
Acrylonitrile	5.0 U	5.0	ug/L							
Benzene	1.0 U	1.0	ug/L							
2-Butanone	5.0 U	5.0	ug/L							
2-Hexanone	5.0 U	5.0	ug/L							
Iodomethane	2.0 U	2.0	ug/L							
Tetrachloroethene	1.0 U	1.0	ug/L							
4-Methyl-2-pentanone	5.0 U	5.0	ug/L							
Bromochloromethane	1.0 U	1.0	ug/L							
Trichloroethene	1.0 U	1.0	ug/L							
Bromodichloromethane	0.40 U	0.40	ug/L							
Bromoform	1.0 U	1.0	ug/L							
Bromomethane	1.0 U	1.0	ug/L							
Carbon disulfide	5.0 U	5.0	ug/L							
Carbon tetrachloride	1.0 U	1.0	ug/L							
Chlorobenzene	1.0 U	1.0	ug/L							
Chloroethane	1.0 U	1.0	ug/L							
Chloroform	1.0 U	1.0	ug/L							
Chloromethane	1.0 U	1.0	ug/L							
Dibromochloromethane	1.0 U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	1.0 U	1.0	ug/L							

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Volatile Organic Compounds by GCMS - Quality Control										
Batch 6L22015 - EPA 5030B_MS										
Blank (6L22015-BLK4) Continued				Prepared: 12/22/2006 12:54 Analyzed: 12/26/2006 20:52						
1,2-Dibromoethane	1.0 U	1.0	ug/L							
Dibromomethane	1.0 U	1.0	ug/L							
1,2-Dichlorobenzene	1.0 U	1.0	ug/L							
1,4-Dichlorobenzene	1.0 U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	1.0 U	1.0	ug/L							
1,1-Dichloroethane	1.0 U	1.0	ug/L							
1,2-Dichloroethane	1.0 U	1.0	ug/L							
1,1-Dichloroethene	1.0 U	1.0	ug/L							
cis-1,2-Dichloroethene	1.0 U	1.0	ug/L							
trans-1,2-Dichloroethene	1.0 U	1.0	ug/L							
1,2-Dichloropropane	1.0 U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20 U	0.20	ug/L							
trans-1,3-Dichloropropene	0.20 U	0.20	ug/L							
Ethylbenzene	1.0 U	1.0	ug/L							
Methylene chloride	2.0 U	2.0	ug/L							
Styrene	1.0 U	1.0	ug/L							
1,1,1,2-Tetrachloroethane	1.0 U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	1.0 U	1.0	ug/L							
Toluene	1.0 U	1.0	ug/L							
1,1,1-Trichloroethane	1.0 U	1.0	ug/L							
1,1,2-Trichloroethane	1.0 U	1.0	ug/L							
Trichlorofluoromethane	1.0 U	1.0	ug/L							
1,2,3-Trichloropropane	1.0 U	1.0	ug/L							
Vinyl acetate	2.0 U	2.0	ug/L							
Vinyl chloride	1.0 U	1.0	ug/L							
m,p-Xylenes	2.0 U	2.0	ug/L							
o-Xylene	1.0 U	1.0	ug/L							
Surrogate: Toluene-d8	*48*		*ug/L*	*50.0*		*96*	*77-118*			
Surrogate: 4-Bromofluorobenzene	*43*		*ug/L*	*50.0*		*86*	*70-130*			
Surrogate: Dibromofluoromethane	*46*		*ug/L*	*50.0*		*91*	*73-138*			
LCS (6L22015-BS1)				Prepared: 12/22/2006 12:54 Analyzed: 12/24/2006 12:16						
Benzene	19	1.0	ug/L	20.0		96	69-115			
Trichloroethene	21	1.0	ug/L	20.0		105	74-118			
Chlorobenzene	18	1.0	ug/L	20.0		92	76-118			
1,1-Dichloroethene	18	1.0	ug/L	20.0		88	64-139			
Toluene	18	1.0	ug/L	20.0		92	77-117			
Matrix Spike (6L22015-MS1)		**Source: C604535-01**		Prepared: 12/22/2006 12:54 Analyzed: 12/24/2006 12:41						
Benzene	20	1.0	ug/L	20.0	4.6	76	53-150			
Trichloroethene	19	1.0	ug/L	20.0	1.2	87	64-124			
Chlorobenzene	18	1.0	ug/L	20.0	2.0	80	44-128			
1,1-Dichloroethene	18	1.0	ug/L	20.0	1.0 U	89	36-177			
Toluene	18	1.0	ug/L	20.0	1.0 U	91	40-161			
Matrix Spike Dup (6L22015-MSD1)		**Source: C604535-01**		Prepared: 12/22/2006 12:54 Analyzed: 12/24/2006 13:07						
Benzene	19	1.0	ug/L	20.0	4.6	72	53-150	3	23	

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Volatile Organic Compounds by GCMS - Quality Control										
Batch 6L22015 - EPA 5030B_MS										
Matrix Spike Dup (6L22015-MSD1) Continued		**Source: C604535-01**		Prepared: 12/22/2006 12:54 Analyzed: 12/24/2006 13:07						
Trichloroethene	19	1.0	ug/L	20.0	1.2	90	64-124	3	25	
Chlorobenzene	19	1.0	ug/L	20.0	2.0	83	44-128	2	22	
1,1-Dichloroethene	18	1.0	ug/L	20.0	1.0 U	91	36-177	2	30	
Toluene	18	1.0	ug/L	20.0	1.0 U	90	40-161	1	23	
Batch 6L23001 - EPA 5030B_MS										
Blank (6L23001-BLK1)				Prepared: 12/23/2006 10:12 Analyzed: 12/24/2006 10:59						
Acetone	5.0 U	5.0	ug/L							
Acrylonitrile	5.0 U	5.0	ug/L							
Benzene	1.0 U	1.0	ug/L							
2-Butanone	5.0 U	5.0	ug/L							
2-Hexanone	5.0 U	5.0	ug/L							
Iodomethane	2.0 U	2.0	ug/L							
Tetrachloroethene	1.0 U	1.0	ug/L							
4-Methyl-2-pentanone	5.0 U	5.0	ug/L							
Bromochloromethane	1.0 U	1.0	ug/L							
Trichloroethene	1.0 U	1.0	ug/L							
Bromodichloromethane	0.40 U	0.40	ug/L							
Bromoform	1.0 U	1.0	ug/L							
Bromomethane	1.0 U	1.0	ug/L							
Carbon disulfide	5.0 U	5.0	ug/L							
Carbon tetrachloride	1.0 U	1.0	ug/L							
Chlorobenzene	1.0 U	1.0	ug/L							
Chloroethane	1.0 U	1.0	ug/L							
Chloroform	1.0 U	1.0	ug/L							
Chloromethane	1.0 U	1.0	ug/L							
Dibromochloromethane	1.0 U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	1.0 U	1.0	ug/L							
1,2-Dibromoethane	1.0 U	1.0	ug/L							
Dibromomethane	1.0 U	1.0	ug/L							
1,2-Dichlorobenzene	1.0 U	1.0	ug/L							
1,4-Dichlorobenzene	1.0 U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	1.0 U	1.0	ug/L							
1,1-Dichloroethane	1.0 U	1.0	ug/L							
1,2-Dichloroethane	1.0 U	1.0	ug/L							
1,1-Dichloroethene	1.0 U	1.0	ug/L							
cis-1,2-Dichloroethene	1.0 U	1.0	ug/L							
trans-1,2-Dichloroethene	1.0 U	1.0	ug/L							
1,2-Dichloropropane	1.0 U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20 U	0.20	ug/L							
trans-1,3-Dichloropropene	0.20 U	0.20	ug/L							
Ethylbenzene	1.0 U	1.0	ug/L							
Methylene chloride	2.0 U	2.0	ug/L							
Styrene	1.0 U	1.0	ug/L							
1,1,1,2-Tetrachloroethane	1.0 U	1.0	ug/L							

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Volatile Organic Compounds by GCMS - Quality Control										
Batch 6L23001 - EPA 5030B_MS										
Blank (6L23001-BLK1) Continued				Prepared: 12/23/2006 10:12 Analyzed: 12/24/2006 10:59						
1,1,2,2-Tetrachloroethane	1.0 U	1.0	ug/L							
Toluene	1.0 U	1.0	ug/L							
1,1,1-Trichloroethane	1.0 U	1.0	ug/L							
1,1,2-Trichloroethane	1.0 U	1.0	ug/L							
Trichlorofluoromethane	1.0 U	1.0	ug/L							
1,2,3-Trichloropropane	1.0 U	1.0	ug/L							
Vinyl acetate	2.0 U	2.0	ug/L							
Vinyl chloride	1.0 U	1.0	ug/L							
m,p-Xylenes	2.0 U	2.0	ug/L							
o-Xylene	1.0 U	1.0	ug/L							
Surrogate: Toluene-d8	*53*		*ug/L*	*50.0*		*106*	*77-118*			
Surrogate: 4-Bromofluorobenzene	*54*		*ug/L*	*50.0*		*107*	*70-130*			
Surrogate: Dibromofluoromethane	*42*		*ug/L*	*50.0*		*84*	*73-138*			
Blank (6L23001-BLK2)				Prepared: 12/23/2006 10:12 Analyzed: 12/26/2006 20:52						
Acetone	5.0 U	5.0	ug/L							
Acrylonitrile	5.0 U	5.0	ug/L							
Benzene	1.0 U	1.0	ug/L							
2-Butanone	5.0 U	5.0	ug/L							
2-Hexanone	5.0 U	5.0	ug/L							
Iodomethane	2.0 U	2.0	ug/L							
Tetrachloroethene	1.0 U	1.0	ug/L							
4-Methyl-2-pentanone	5.0 U	5.0	ug/L							
Bromochloromethane	1.0 U	1.0	ug/L							
Trichloroethene	1.0 U	1.0	ug/L							
Bromodichloromethane	0.40 U	0.40	ug/L							
Bromoform	1.0 U	1.0	ug/L							
Bromomethane	1.0 U	1.0	ug/L							
Carbon disulfide	5.0 U	5.0	ug/L							
Carbon tetrachloride	1.0 U	1.0	ug/L							
Chlorobenzene	1.0 U	1.0	ug/L							
Chloroethane	1.0 U	1.0	ug/L							
Chloroform	1.0 U	1.0	ug/L							
Chloromethane	1.0 U	1.0	ug/L							
Dibromochloromethane	1.0 U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	1.0 U	1.0	ug/L							
1,2-Dibromoethane	1.0 U	1.0	ug/L							
Dibromomethane	1.0 U	1.0	ug/L							
1,2-Dichlorobenzene	1.0 U	1.0	ug/L							
1,4-Dichlorobenzene	1.0 U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	1.0 U	1.0	ug/L							
1,1-Dichloroethane	1.0 U	1.0	ug/L							
1,2-Dichloroethane	1.0 U	1.0	ug/L							
1,1-Dichloroethene	1.0 U	1.0	ug/L							
cis-1,2-Dichloroethene	1.0 U	1.0	ug/L							

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Volatile Organic Compounds by GCMS - Quality Control										
Batch 6L23001 - EPA 5030B_MS										
Blank (6L23001-BLK2) Continued				Prepared: 12/23/2006 10:12 Analyzed: 12/26/2006 20:52						
trans-1,2-Dichloroethene	1.0 U	1.0	ug/L							
1,2-Dichloropropane	1.0 U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20 U	0.20	ug/L							
trans-1,3-Dichloropropene	0.20 U	0.20	ug/L							
Ethylbenzene	1.0 U	1.0	ug/L							
Methylene chloride	2.0 U	2.0	ug/L							
Styrene	1.0 U	1.0	ug/L							
1,1,1,2-Tetrachloroethane	1.0 U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	1.0 U	1.0	ug/L							
Toluene	1.0 U	1.0	ug/L							
1,1,1-Trichloroethane	1.0 U	1.0	ug/L							
1,1,2-Trichloroethane	1.0 U	1.0	ug/L							
Trichlorofluoromethane	1.0 U	1.0	ug/L							
1,2,3-Trichloropropane	1.0 U	1.0	ug/L							
Vinyl acetate	2.0 U	2.0	ug/L							
Vinyl chloride	1.0 U	1.0	ug/L							
m,p-Xylenes	2.0 U	2.0	ug/L							
o-Xylene	1.0 U	1.0	ug/L							
Surrogate: Toluene-d8	*48*		*ug/L*	*50.0*		*96*	*77-118*			
Surrogate: 4-Bromofluorobenzene	*43*		*ug/L*	*50.0*		*86*	*70-130*			
Surrogate: Dibromofluoromethane	*46*		*ug/L*	*50.0*		*91*	*73-138*			
LCS (6L23001-BS1)				Prepared: 12/23/2006 10:12 Analyzed: 12/24/2006 22:57						
Benzene	19	1.0	ug/L	20.0		95	69-115			
Trichloroethene	21	1.0	ug/L	20.0		105	74-118			
Chlorobenzene	19	1.0	ug/L	20.0		93	76-118			
1,1-Dichloroethene	19	1.0	ug/L	20.0		94	64-139			
Toluene	18	1.0	ug/L	20.0		92	77-117			
Matrix Spike (6L23001-MS1)		**Source: C604987-09**		Prepared: 12/23/2006 10:12 Analyzed: 12/24/2006 23:23						
Benzene	19	1.0	ug/L	20.0	1.0 U	96	53-150			
Trichloroethene	19	1.0	ug/L	20.0	1.0 U	95	64-124			
Chlorobenzene	19	1.0	ug/L	20.0	1.0 U	95	44-128			
1,1-Dichloroethene	19	1.0	ug/L	20.0	1.0 U	94	36-177			
Toluene	19	1.0	ug/L	20.0	1.0 U	96	40-161			
Matrix Spike Dup (6L23001-MSD1)		**Source: C604987-09**		Prepared: 12/23/2006 10:12 Analyzed: 12/24/2006 23:48						
Benzene	20	1.0	ug/L	20.0	1.0 U	98	53-150	2	23	
Trichloroethene	19	1.0	ug/L	20.0	1.0 U	97	64-124	2	25	
Chlorobenzene	19	1.0	ug/L	20.0	1.0 U	95	44-128	0.6	22	
1,1-Dichloroethene	18	1.0	ug/L	20.0	1.0 U	92	36-177	2	30	
Toluene	19	1.0	ug/L	20.0	1.0 U	93	40-161	2	23	
Metals by EPA 6000/7000 Series Methods - Quality Control										
Batch 6L19020 - EPA 3005A										
Blank (6L19020-BLK1)				Prepared: 12/19/2006 14:02 Analyzed: 12/21/2006 12:58						
Antimony	0.01 U	0.01	mg/L							

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Metals by EPA 6000/7000 Series Methods - Quality Control										
Batch 6L19020 - EPA 3005A										
Blank (6L19020-BLK1) Continued				Prepared: 12/19/2006 14:02 Analyzed: 12/21/2006 12:58						
Arsenic	0.01 U	0.01	mg/L							
Barium	0.01 U	0.01	mg/L							
Beryllium	0.001 U	0.001	mg/L							
Cadmium	0.001 U	0.001	mg/L							
Chromium	0.01 U	0.01	mg/L							
Cobalt	0.01 U	0.01	mg/L							
Copper	0.01 U	0.01	mg/L							
Lead	0.01 U	0.01	mg/L							
Nickel	0.01 U	0.01	mg/L							
Selenium	0.01 U	0.01	mg/L							
Silver	0.01 U	0.01	mg/L							
Thallium	0.01 U	0.01	mg/L							
Vanadium	0.01 U	0.01	mg/L							
Zinc	0.01 U	0.01	mg/L							
LCS (6L19020-BS1)				Prepared: 12/19/2006 14:02 Analyzed: 12/21/2006 13:05						
Antimony	0.556	0.01	mg/L	0.500		111	82-119			
Arsenic	1.10	0.01	mg/L	1.00		110	82-117			
Barium	1.06	0.01	mg/L	1.00		106	72-125			
Beryllium	0.559	0.001	mg/L	0.500		112	75-121			
Cadmium	0.555	0.001	mg/L	0.500		111	72-120			
Chromium	1.08	0.01	mg/L	1.00		108	78-119			
Cobalt	1.09	0.01	mg/L	1.00		109	76-117			
Copper	0.530	0.01	mg/L	0.500		106	80-117			
Lead	1.12	0.01	mg/L	1.00		112	72-121			
Nickel	1.10	0.01	mg/L	1.00		110	78-116			
Selenium	1.11	0.01	mg/L	1.00		111	82-127			
Silver	0.107	0.01	mg/L	0.100		107	80-128			
Thallium	0.552	0.01	mg/L	0.500		110	79-118			
Vanadium	0.529	0.01	mg/L	0.500		106	78-117			
Zinc	1.12	0.01	mg/L	1.00		112	80-120			
Matrix Spike (6L19020-MS1)		**Source: C604714-04**		Prepared: 12/19/2006 14:02 Analyzed: 12/21/2006 13:21						
Antimony	0.557	0.01	mg/L	0.500	0.01 U	111	38-138			
Arsenic	1.09	0.01	mg/L	1.00	0.00300	109	64-126			
Barium	1.18	0.01	mg/L	1.00	0.121	106	74-119			
Beryllium	0.562	0.001	mg/L	0.500	0.00100	112	70-131			
Cadmium	0.556	0.001	mg/L	0.500	0.001 U	111	68-121			
Chromium	1.09	0.01	mg/L	1.00	0.01 U	109	73-120			
Cobalt	1.09	0.01	mg/L	1.00	0.01 U	109	76-120			
Copper	0.532	0.01	mg/L	0.500	0.000900	106	75-123			
Lead	1.12	0.01	mg/L	1.00	0.00250	112	68-126			
Nickel	1.10	0.01	mg/L	1.00	0.01 U	110	64-126			
Selenium	1.10	0.01	mg/L	1.00	0.00540	110	65-129			
Silver	0.108	0.01	mg/L	0.100	0.01 U	108	69-121			
Thallium	0.554	0.01	mg/L	0.500	0.00480	110	67-135			
Vanadium	0.534	0.01	mg/L	0.500	0.01 U	107	71-130			

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Metals by EPA 6000/7000 Series Methods - Quality Control										
Batch 6L19020 - EPA 3005A										
Matrix Spike (6L19020-MS1) Continued		**Source: C604714-04**		Prepared: 12/19/2006 14:02 Analyzed: 12/21/2006 13:21						
Zinc	1.12	0.01	mg/L	1.00	0.00520	112	63-131			
Matrix Spike Dup (6L19020-MSD1)		**Source: C604714-04**		Prepared: 12/19/2006 14:02 Analyzed: 12/21/2006 13:28						
Antimony	0.548	0.01	mg/L	0.500	0.01 U	110	38-138	2	30	
Arsenic	1.08	0.01	mg/L	1.00	0.00300	108	64-126	0.8	12	
Barium	1.18	0.01	mg/L	1.00	0.121	106	74-119	0.08	11	
Beryllium	0.560	0.001	mg/L	0.500	0.00100	112	70-131	0.4	21	
Cadmium	0.551	0.001	mg/L	0.500	0.001 U	110	68-121	1	12	
Chromium	1.07	0.01	mg/L	1.00	0.01 U	107	73-120	1	10	
Cobalt	1.08	0.01	mg/L	1.00	0.01 U	108	76-120	1	17	
Copper	0.536	0.01	mg/L	0.500	0.000900	107	75-123	0.6	16	
Lead	1.09	0.01	mg/L	1.00	0.00250	109	68-126	2	19	
Nickel	1.10	0.01	mg/L	1.00	0.01 U	110	64-126	0.4	12	
Selenium	1.10	0.01	mg/L	1.00	0.00540	109	65-129	0.9	10	
Silver	0.106	0.01	mg/L	0.100	0.01 U	106	69-121	2	12	
Thallium	0.548	0.01	mg/L	0.500	0.00480	109	67-135	1	13	
Vanadium	0.527	0.01	mg/L	0.500	0.01 U	105	71-130	1	16	
Zinc	1.10	0.01	mg/L	1.00	0.00520	110	63-131	2	24	
Batch 6L19021 - EPA 3005A										
Blank (6L19021-BLK1)				Prepared: 12/19/2006 14:11 Analyzed: 12/21/2006 09:31						
Antimony	0.01 U	0.01	mg/L							
Arsenic	0.01 U	0.01	mg/L							
Barium	0.01 U	0.01	mg/L							
Beryllium	0.001 U	0.001	mg/L							
Cadmium	0.001 U	0.001	mg/L							
Chromium	0.01 U	0.01	mg/L							
Cobalt	0.01 U	0.01	mg/L							
Copper	0.01 U	0.01	mg/L							
Lead	0.01 U	0.01	mg/L							
Nickel	0.01 U	0.01	mg/L							
Selenium	0.01 U	0.01	mg/L							
Silver	0.01 U	0.01	mg/L							
Thallium	0.01 U	0.01	mg/L							
Vanadium	0.01 U	0.01	mg/L							
Zinc	0.01 U	0.01	mg/L							
LCS (6L19021-BS1)				Prepared: 12/19/2006 14:11 Analyzed: 12/21/2006 09:38						
Antimony	0.544	0.01	mg/L	0.500		109	82-119			
Arsenic	1.07	0.01	mg/L	1.00		107	82-117			
Barium	1.04	0.01	mg/L	1.00		104	72-125			
Beryllium	0.545	0.001	mg/L	0.500		109	75-121			
Cadmium	0.536	0.001	mg/L	0.500		107	72-120			
Chromium	1.06	0.01	mg/L	1.00		106	78-119			
Cobalt	1.06	0.01	mg/L	1.00		106	76-117			
Copper	0.527	0.01	mg/L	0.500		105	80-117			
Lead	1.09	0.01	mg/L	1.00		109	72-121			

QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Sanple Notes
Metals by EPA 6000/7000 Series Methods - Quality Control										
Batch 6L19021 - EPA 3005A										
LCS (6L19021-BS1) Continued				Prepared: 12/19/2006 14:11 Analyzed: 12/21/2006 09:38						
Nickel	1.06	0.01	mg/L	1.00		106	78-116			
Selenium	1.08	0.01	mg/L	1.00		108	82-127			
Silver	0.105	0.01	mg/L	0.100		105	80-128			
Thallium	0.543	0.01	mg/L	0.500		109	79-118			
Vanadium	0.521	0.01	mg/L	0.500		104	78-117			
Zinc	1.08	0.01	mg/L	1.00		108	80-120			
Matrix Spike (6L19021-MS1)		**Source: C604535-01**		Prepared: 12/19/2006 14:11 Analyzed: 12/21/2006 09:54						
Antimony	0.551	0.01	mg/L	0.500	0.01 U	110	38-138			
Arsenic	1.09	0.01	mg/L	1.00	0.01 U	109	64-126			
Barium	1.18	0.01	mg/L	1.00	0.107	107	74-119			
Beryllium	0.556	0.001	mg/L	0.500	0.001 U	111	70-131			
Cadmium	0.536	0.001	mg/L	0.500	0.001 U	107	68-121			
Chromium	1.05	0.01	mg/L	1.00	0.01 U	105	73-120			
Cobalt	1.19	0.01	mg/L	1.00	0.117	107	76-120			
Copper	0.531	0.01	mg/L	0.500	0.01 U	106	75-123			
Lead	1.10	0.01	mg/L	1.00	0.01 U	110	68-126			
Nickel	1.08	0.01	mg/L	1.00	0.0164	107	64-126			
Selenium	1.10	0.01	mg/L	1.00	0.01 U	110	65-129			
Silver	0.106	0.01	mg/L	0.100	0.01 U	106	69-121			
Thallium	0.536	0.01	mg/L	0.500	0.01 U	107	67-135			
Vanadium	0.465	0.01	mg/L	0.500	0.01 U	93	71-130			
Zinc	1.11	0.01	mg/L	1.00	0.0325	108	63-131			
Matrix Spike Dup (6L19021-MSD1)		**Source: C604535-01**		Prepared: 12/19/2006 14:11 Analyzed: 12/21/2006 10:01						
Antimony	0.546	0.01	mg/L	0.500	0.01 U	109	38-138	0.8	30	
Arsenic	1.08	0.01	mg/L	1.00	0.01 U	108	64-126	1	12	
Barium	1.16	0.01	mg/L	1.00	0.107	105	74-119	1	11	
Beryllium	0.548	0.001	mg/L	0.500	0.001 U	110	70-131	1	21	
Cadmium	0.532	0.001	mg/L	0.500	0.001 U	106	68-121	0.8	12	
Chromium	1.04	0.01	mg/L	1.00	0.01 U	104	73-120	0.7	10	
Cobalt	1.18	0.01	mg/L	1.00	0.117	107	76-120	0.6	17	
Copper	0.524	0.01	mg/L	0.500	0.01 U	105	75-123	1	16	
Lead	1.10	0.01	mg/L	1.00	0.01 U	110	68-126	0.5	19	
Nickel	1.08	0.01	mg/L	1.00	0.0164	106	64-126	0.5	12	
Selenium	1.08	0.01	mg/L	1.00	0.01 U	108	65-129	2	10	
Silver	0.106	0.01	mg/L	0.100	0.01 U	106	69-121	0.8	12	
Thallium	0.531	0.01	mg/L	0.500	0.01 U	106	67-135	0.9	13	
Vanadium	0.460	0.01	mg/L	0.500	0.01 U	92	71-130	1	16	
Zinc	1.11	0.01	mg/L	1.00	0.0325	108	63-131	0.3	24	

NOTES AND DEFINITIONS

U Analyte included in the analysis, but not detected

LABORATORY CERTIFICATION SUMMARY

Analysis	Matrix	Cert ID	Cert Number
8260B Appendix 1	Water	NC	591
Antimony Total EPA 6010B	Water	NC	591
Arsenic Total EPA 6010B	Water	NC	591
Barium Total EPA 6010B	Water	NC	591
Beryllium Total EPA 6010B	Water	NC	591
Cadmium Total EPA 6010B	Water	NC	591
Chromium Total EPA 6010B	Water	NC	591
Cobalt Total EPA 6010B	Water	NC	591
Copper Total EPA 6010B	Water	NC	591
Lead Total EPA 6010B	Water	NC	591
Nickel Total EPA 6010B	Water	NC	591
Selenium Total EPA 6010B	Water	NC	591
Silver Total EPA 6010B	Water	NC	591
Thallium Total EPA 6010B	Water	NC	591
Vanadium Total EPA 6010B	Water	NC	591
Zinc Total EPA 6010B	Water	NC	591