Semi-Annual Groundwater Sampling and Analysis Report

Prepared for

Iredell County C&D Landfill, Phases 1-3
Statesville, North Carolina

July, 2007

Permit Number: 49-03
MESCO Project Number: G07013.0

Completed on September 14, 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.

September 14, 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 Sampling and Analysis Report
Iredell County C&D Landfill, phases 1, 2, and 3
Permit No. 49-03
MESCO Project No. G07013.0

Dear Ms. Drummond:

The stand alone unlined Iredell County Construction & Demolition (C&D) Landfill phases 1, 2, and 3 areas located in Statesville NC were sampled by Municipal Engineering Company, P.A. (MESCO) on July 19 & 20, 2007 concurrently with the facilities Subtitle D Lined Landfills as part of the detection monitoring program. All of the monitoring locations were sampled during this semi-annual event with the exception of upgradient surface water SW-6 which was dry. All of the C&D landfill monitoring wells were analyzed for the newly promulgated parameter list as outlined in 15A NCAC 13B.0544 (D) for the second consecutive event. The new parameter list includes the Appendix 1 list of VOCs and metals, mercury, specific conductance, pH, temperature, alkalinity, total dissolved solids, chloride, manganese, sulfate, and iron. The C&D surface water monitoring location SW-3 was analyzed for only the Appendix I list of metals and VOCs. The reports for the active lined Subtitle D Landfills which comprise a separate portion of the facility are contained in separate submittals. Environmental Conservation Laboratories, Inc. (ENCO) of Cary, NC completed the laboratory analysis. The laboratory results were reported to the MDL with reference to the current Solid Waste Section Limits (SWSL). It is important to note that by reporting analysis results to the MDL several more parameters were found during this event than would have been had the Sections 1994 recommended PQL's continued to have been utilized. The laboratory results are included herein.

Water levels were also obtained from additional piezometers surrounding both the Phase 2 Subtitle D and C&D landfills. These readings were utilized to supplement the water elevations from the monitoring wells to construct a more accurate potentiometric surface.

All detected constituents were analyzed for regulatory exceedance with reference to North Carolina Groundwater Standards. The results are shown in the enclosed tables titled “Detection Scans”. The following table summarize those constituents that exceeded the Standard.

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

Table 1. Exceedance Summary

Monitoring Location	Iron	Manganese	Cadmium	Benzene
MW-9R		x		x
MW-9RR	x	x		x
MW-10R	x			
MW-16	x	x		x
MW-22	x			
MW-23	x	x		
MW-24S	x	x		
MW-24D	x	x	x	
MW-25	x	x		
MW-26S	x	x		
MW-26D	x	x		
SW-3	x	x		

x=concentration greater than NCGW2L Standard

All of the monitoring wells that monitor the C&D region were found to contain concentrations of Iron above the Standard with the exception of MW-9R. Manganese was also found in elevated concentrations within all of the C&D monitoring wells with the exception of MW-10R, and MW-22. The concentrations of both Iron and Manganese were grossly elevated but are of natural origin and not a product of leachate migration as indicated by the presence within the background wells and the wells that are located downgradient of the phase 3 landfill that has yet to begin accepting waste prior to this event.

Monitoring wells MW-9R and MW-9RR which monitor the eastern portion of the C&D phase 1 region continues to contain VOCs. This is the premier event that MW-16, located northeast of the C&D phase 1 cell, was found to contain concentrations of VOCs above the SWSL. The VOCs detected within the upper aquifer downgradient of C&D phase 1 consist of low level purgeable halocarbons and aromatics. Natural attenuation appears to be ongoing as the VOC concentrations continue to decrease with levels found at or near their respective lowest identified concentration. Surface water SW-3, located on a very small tributary between MW-9RR and MW-16, lacked any VOCs indicating that the plume is isolated. Surface water SW-2 which is located further downstream beyond the property and is part of the Subtitle D Lined Landfill monitoring also lacked any VOC detections during this event.

MESCO completed the enclosed potentiometric map with groundwater elevations on the day of sampling, flow rates and direction. The calculated flow directions are consistent with previous events and the monitoring network continues to appear to be adequate. Calculated flow rates are consistent with previous events and varied considerably with values ranging from 12 ft/year to >414 ft/yr. The field data sheet and chain of custody is also enclosed.

The C&D phase 3 area began accepting C&D waste in March 2007. The facility is scheduled to continue detection monitoring and will be sampled for the complete C&D parameter list of constituents again in January 2008. If you have any questions 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. David Lambert
Iredell County

Detection Scan All Detections above SWSL and NCGW2L
Iredell County C&D Landfill, Phases 1, 2, & 3

Well ID	Parameter Name[1]	Sample Date	Result	Unit	SWSL [2]	MDL[4]	NCGW2L[3]	Exceedance
MW-9R	Barium	07/19/2007	340	ug/L	100	0.20	2000	
MW-9R	**Benzene**	**07/19/2007**	**1.4**	**ug/L**	1	**0.12**	**1**	**0.4**
MW-9R	cis-1,2-Dichloroethene	07/19/2007	6.6	ug/L	5	0.14	70	
MW-9R	Cobalt	07/19/2007	14.7	ug/L	10	2.0		
MW-9R	**Manganese**	**07/19/2007**	**4380**	**ug/L**	50	**1.4**	**50**	**4330**
MW-9R	Trichloroethene	07/19/2007	1.6	ug/L	1	0.23	2.8	
MW-9RR	Barium	07/19/2007	122	ug/L	100	0.20	2000	
MW-9RR	**Benzene**	**07/19/2007**	**1.5**	**ug/L**	1	**0.12**	**1**	**0.5**
MW-9RR	cis-1,2-Dichloroethene	07/19/2007	9.1	ug/L	5	0.14	70	
MW-9RR	**Iron**	**07/19/2007**	**4610**	**ug/L**	300	**20**	**300**	**4310**
MW-9RR	**Manganese**	**07/19/2007**	**507**	**ug/L**	50	**1.4**	**50**	**457**
MW-9RR	Zinc	07/19/2007	14.6	ug/L	10	1.0	1050	
MW-10R	**Iron**	**07/19/2007**	**572**	**ug/L**	300	**20**	**300**	**272**
MW-16	Barium	07/19/2007	170	ug/L	100	0.20	2000	
MW-16	**Benzene**	**07/19/2007**	**1.3**	**ug/L**	1	**0.12**	**1**	**0.3**
MW-16	**Iron**	**07/19/2007**	**5550**	**ug/L**	300	**20**	**300**	**5250**
MW-16	**Manganese**	**07/19/2007**	**154**	**ug/L**	50	**1.4**	**50**	**104**
MW-16	Zinc	07/19/2007	28.8	ug/L	10	1.0	1050	
MW-22	Barium	07/19/2007	104	ug/L	100	0.20	2000	
MW-22	**Iron**	**07/19/2007**	**323**	**ug/L**	300	**20**	**300**	**23**
MW-22	Zinc	07/19/2007	11.5	ug/L	10	1.0	1050	
MW-23	Barium	07/19/2007	252	ug/L	100	0.20	2000	
MW-23	**Iron**	**07/19/2007**	**923**	**ug/L**	300	**20**	**300**	**623**
MW-23	**Manganese**	**07/19/2007**	**83.1**	**ug/L**	50	**1.4**	**50**	**33.1**
MW-24D	**Cadmium**	**07/19/2007**	**3**	**ug/L**	1	**0.50**	**1.75**	**1.25**
MW-24D	Copper	07/19/2007	11.8	ug/L	10	0.60	1000	
MW-24D	**Iron**	**07/19/2007**	**4580**	**ug/L**	300	**20**	**300**	**4280**
MW-24D	**Manganese**	**07/19/2007**	**167**	**ug/L**	50	**1.4**	**50**	**117**
MW-24D	Zinc	07/19/2007	22.9	ug/L	10	1.0	1050	
MW-24S	**Iron**	**07/19/2007**	**9460**	**ug/L**	300	**20**	**300**	**9160**
MW-24S	**Manganese**	**07/19/2007**	**260**	**ug/L**	50	**1.4**	**50**	**210**
MW-24S	Zinc	07/19/2007	31.8	ug/L	10	1.0	1050	
MW-25	**Iron**	**07/20/2007**	**3150**	**ug/L**	300	**20**	**300**	**2850**
MW-25	**Manganese**	**07/20/2007**	**88**	**ug/L**	50	**1.4**	**50**	**38**
MW-25	Mercury	07/20/2007	0.38	ug/L	0.2	0.11	1.1	
MW-25	Zinc	07/20/2007	10.5	ug/L	10	1.0	1050	
MW-26D	Cadmium	07/20/2007	1.1	ug/L	1	0.50	1.75	
MW-26D	Copper	07/20/2007	13	ug/L	10	0.60	1000	
MW-26D	**Iron**	**07/20/2007**	**6590**	**ug/L**	300	**20**	**300**	**6290**
MW-26D	**Manganese**	**07/20/2007**	**202**	**ug/L**	50	**1.4**	**50**	**152**
MW-26D	Vanadium	07/20/2007	34.6	ug/L	25	1.0		
MW-26D	Zinc	07/20/2007	37.4	ug/L	10	1.0	1050	
MW-26S	Barium	07/20/2007	104	ug/L	100	0.20	2000	
MW-26S	**Iron**	**07/20/2007**	**1710**	**ug/L**	300	**20**	**300**	**1410**
MW-26S	**Manganese**	**07/20/2007**	**53.1**	**ug/L**	50	**1.4**	**50**	**3.1**
SW-3	**Iron**	**07/19/2007**	**2830**	**ug/L**	300	**20**	**300**	**2530**
SW-3	**Manganese**	**07/19/2007**	**389**	**ug/L**	50	**1.4**	**50**	**339**
SW-3	Zinc	07/19/2007	13.1	ug/L	10	1.0	1050	

[1] Table only contains constituents detected above SWSL and NCGW2L Standard
[2] SWSL = Solid Waste Section Limit (Current as of sampling date)
[3] NCGW2L = North Carolina Ground Water 2L Standard
[4] MDL = Method Detection Limit
NE=Not Established

Detection Scan All Detections above MDL
Iredell County C&D Landfill, Phases 1, 2, & 3

Well ID	Parameter Name[1]	Sample Date	Result	Unit	SWSL [2]	MDL[4]	NCGW2L[3]	Exceedance
MW-9R	Barium	07/19/2007	340	ug/L	100	0.20	2000	
MW-9R	**Benzene**	**07/19/2007**	**1.4**	**ug/L**	1	**0.12**	**1**	**0.4**
MW-9R	Chloride	07/19/2007	59	mg/L	NE	2.0		
MW-9R	cis-1,2-Dichloroethene	07/19/2007	6.6	ug/L	5	0.14	70	
MW-9R	Cobalt	07/19/2007	14.7	ug/L	10	2.0		
MW-9R	Iron	07/19/2007	295	ug/L	300	20	300	
MW-9R	**Manganese**	**07/19/2007**	**4380**	**ug/L**	50	**1.4**	**50**	**4330**
MW-9R	Sulfate as SO4	07/19/2007	22	mg/L	NE	5.0		
MW-9R	Thallium	07/19/2007	0.21	ug/L	5.5	0.036		
MW-9R	Total Alkalinity	07/19/2007	180	mg/L	NE	5.2		
MW-9R	Total Dissolved Solids	07/19/2007	320	mg/L	NE	10		
MW-9R	Trichloroethene	07/19/2007	1.6	ug/L	1	0.23	2.8	
MW-9R	Zinc	07/19/2007	1	ug/L	10	1.0	1050	
MW-9RR	Barium	07/19/2007	122	ug/L	100	0.20	2000	
MW-9RR	**Benzene**	**07/19/2007**	**1.5**	**ug/L**	1	**0.12**	**1**	**0.5**
MW-9RR	Chloride	07/19/2007	61	mg/L	NE	2.0		
MW-9RR	cis-1,2-Dichloroethene	07/19/2007	9.1	ug/L	5	0.14	70	
MW-9RR	Cobalt	07/19/2007	2	ug/L	10	2.0		
MW-9RR	Copper	07/19/2007	0.6	ug/L	10	0.60	1000	
MW-9RR	**Iron**	**07/19/2007**	**4610**	**ug/L**	300	**20**	**300**	**4310**
MW-9RR	**Manganese**	**07/19/2007**	**507**	**ug/L**	50	**1.4**	**50**	**457**
MW-9RR	Sulfate as SO4	07/19/2007	170	mg/L	NE	20		
MW-9RR	Thallium	07/19/2007	0.092	ug/L	5.5	0.036		
MW-9RR	Total Alkalinity	07/19/2007	61	mg/L	NE	5.2		
MW-9RR	Total Dissolved Solids	07/19/2007	370	mg/L	NE	10		
MW-9RR	Trichloroethene	07/19/2007	0.85	ug/L	1	0.23	2.8	
MW-9RR	Vanadium	07/19/2007	1	ug/L	25	1.0		
MW-9RR	Zinc	07/19/2007	14.6	ug/L	10	1.0	1050	
MW-10R	Barium	07/19/2007	92	ug/L	100	0.20	2000	
MW-10R	Chloride	07/19/2007	5.9	mg/L	NE	2.0		
MW-10R	**Iron**	**07/19/2007**	**572**	**ug/L**	300	**20**	**300**	**272**
MW-10R	Manganese	07/19/2007	32.7	ug/L	50	1.4	50	
MW-10R	Thallium	07/19/2007	0.091	ug/L	5.5	0.036		
MW-10R	Total Alkalinity	07/19/2007	13	mg/L	NE	5.2		
MW-10R	Total Dissolved Solids	07/19/2007	24	mg/L	NE	10		
MW-10R	Zinc	07/19/2007	1	ug/L	10	1.0	1050	
MW-16	1,4-Dichlorobenzene	07/19/2007	0.66	ug/L	1	0.15	1.4	
MW-16	Barium	07/19/2007	170	ug/L	100	0.20	2000	
MW-16	**Benzene**	**07/19/2007**	**1.3**	**ug/L**	1	**0.12**	**1**	**0.3**
MW-16	Chloride	07/19/2007	8.6	mg/L	NE	2.0		
MW-16	**Iron**	**07/19/2007**	**5550**	**ug/L**	300	**20**	**300**	**5250**
MW-16	Lead	07/19/2007	2	ug/L	10	2.0	15	
MW-16	**Manganese**	**07/19/2007**	**154**	**ug/L**	50	**1.4**	**50**	**104**
MW-16	Tetrachloroethene	07/19/2007	0.39	ug/L	1	0.25	0.7	
MW-16	Total Alkalinity	07/19/2007	80	mg/L	NE	5.2		
MW-16	Total Dissolved Solids	07/19/2007	130	mg/L	NE	10		
MW-16	Trichloroethene	07/19/2007	0.88	ug/L	1	0.23	2.8	
MW-16	Vanadium	07/19/2007	14.5	ug/L	25	1.0		
MW-16	Zinc	07/19/2007	28.8	ug/L	10	1.0	1050	
MW-22	Barium	07/19/2007	104	ug/L	100	0.20	2000	
MW-22	**Iron**	**07/19/2007**	**323**	**ug/L**	300	**20**	**300**	**23**

Well ID	Parameter Name[1]	Sample Date	Result	Unit	SWSL [2]	MDL[4]	NCGW2L[3]	Exceedance
MW-22	Manganese	07/19/2007	7	ug/L	50	1.4	50	
MW-22	Total Alkalinity	07/19/2007	26	mg/L	NE	5.2		
MW-22	Total Dissolved Solids	07/19/2007	34	mg/L	NE	10		
MW-22	Zinc	07/19/2007	11.5	ug/L	10	1.0	1050	
MW-23	Barium	07/19/2007	252	ug/L	100	0.20	2000	
MW-23	Chloride	07/19/2007	17	mg/L	NE	2.0		
MW-23	**Iron**	**07/19/2007**	**923**	**ug/L**	300	**20**	**300**	**623**
MW-23	**Manganese**	**07/19/2007**	**83.1**	**ug/L**	50	**1.4**	**50**	**33.1**
MW-23	Sulfate as SO4	07/19/2007	90	mg/L	NE	20		
MW-23	Total Alkalinity	07/19/2007	29	mg/L	NE	5.2		
MW-23	Total Dissolved Solids	07/19/2007	180	mg/L	NE	10		
MW-23	Vanadium	07/19/2007	1	ug/L	25	1.0		
MW-23	Zinc	07/19/2007	1	ug/L	10	1.0	1050	
MW-24D	Barium	07/19/2007	25.6	ug/L	100	0.20	2000	
MW-24D	**Cadmium**	**07/19/2007**	**3**	**ug/L**	1	**0.50**	**1.75**	**1.25**
MW-24D	Chloride	07/19/2007	2.4	mg/L	NE	2.0		
MW-24D	Copper	07/19/2007	11.8	ug/L	10	0.60	1000	
MW-24D	**Iron**	**07/19/2007**	**4580**	**ug/L**	300	**20**	**300**	**4280**
MW-24D	**Manganese**	**07/19/2007**	**167**	**ug/L**	50	**1.4**	**50**	**117**
MW-24D	Total Alkalinity	07/19/2007	24	mg/L	NE	5.2		
MW-24D	Total Dissolved Solids	07/19/2007	90	mg/L	NE	10		
MW-24D	Vanadium	07/19/2007	17.1	ug/L	25	1.0		
MW-24D	Zinc	07/19/2007	22.9	ug/L	10	1.0	1050	
MW-24S	Barium	07/19/2007	93.4	ug/L	100	0.20	2000	
MW-24S	Chloride	07/19/2007	4.9	mg/L	NE	2.0		
MW-24S	Copper	07/19/2007	0.6	ug/L	10	0.60	1000	
MW-24S	**Iron**	**07/19/2007**	**9460**	**ug/L**	300	**20**	**300**	**9160**
MW-24S	**Manganese**	**07/19/2007**	**260**	**ug/L**	50	**1.4**	**50**	**210**
MW-24S	Total Alkalinity	07/19/2007	16	mg/L	NE	5.2		
MW-24S	Total Dissolved Solids	07/19/2007	86	mg/L	NE	10		
MW-24S	Vanadium	07/19/2007	18.8	ug/L	25	1.0		
MW-24S	Zinc	07/19/2007	31.8	ug/L	10	1.0	1050	
MW-25	Barium	07/20/2007	61	ug/L	100	0.20	2000	
MW-25	Copper	07/20/2007	0.6	ug/L	10	0.60	1000	
MW-25	**Iron**	**07/20/2007**	**3150**	**ug/L**	300	**20**	**300**	**2850**
MW-25	**Manganese**	**07/20/2007**	**88**	**ug/L**	50	**1.4**	**50**	**38**
MW-25	Mercury	07/20/2007	0.38	ug/L	0.2	0.11	1.1	
MW-25	Total Alkalinity	07/20/2007	24	mg/L	NE	5.2		
MW-25	Total Dissolved Solids	07/20/2007	96	mg/L	NE	10		
MW-25	Vanadium	07/20/2007	1	ug/L	25	1.0		
MW-25	Zinc	07/20/2007	10.5	ug/L	10	1.0	1050	
MW-26D	Antimony	07/20/2007	0.75	ug/L	6	0.68		
MW-26D	Barium	07/20/2007	61.2	ug/L	100	0.20	2000	
MW-26D	Cadmium	07/20/2007	1.1	ug/L	1	0.50	1.75	
MW-26D	Cobalt	07/20/2007	2	ug/L	10	2.0		
MW-26D	Copper	07/20/2007	13	ug/L	10	0.60	1000	
MW-26D	**Iron**	**07/20/2007**	**6590**	**ug/L**	300	**20**	**300**	**6290**
MW-26D	**Manganese**	**07/20/2007**	**202**	**ug/L**	50	**1.4**	**50**	**152**
MW-26D	Sulfate as SO4	07/20/2007	5.8	mg/L	NE	5.0		
MW-26D	Total Alkalinity	07/20/2007	75	mg/L	NE	5.2		
MW-26D	Total Dissolved Solids	07/20/2007	98	mg/L	NE	10		
MW-26D	Vanadium	07/20/2007	34.6	ug/L	25	1.0		
MW-26D	Zinc	07/20/2007	37.4	ug/L	10	1.0	1050	
MW-26S	Barium	07/20/2007	104	ug/L	100	0.20	2000	

Well ID	Parameter Name[1]	Sample Date	Result	Unit	SWSL [2]	MDL[4]	NCGW2L[3]	Exceedance
MW-26S	Chloride	07/20/2007	3.6	mg/L	NE	2.0		
MW-26S	Copper	07/20/2007	0.6	ug/L	10	0.60	1000	
MW-26S	**Iron**	**07/20/2007**	**1710**	**ug/L**	300	**20**	**300**	**1410**
MW-26S	**Manganese**	**07/20/2007**	**53.1**	**ug/L**	50	**1.4**	**50**	**3.1**
MW-26S	Total Alkalinity	07/20/2007	10	mg/L	NE	5.2		
MW-26S	Total Dissolved Solids	07/20/2007	74	mg/L	NE	10		
MW-26S	Vanadium	07/20/2007	1	ug/L	25	1.0		
MW-26S	Zinc	07/20/2007	1	ug/L	10	1.0	1050	
SW-3	Barium	07/19/2007	62.2	ug/L	100	0.20	2000	
SW-3	Copper	07/19/2007	0.6	ug/L	10	0.60	1000	
SW-3	**Iron**	**07/19/2007**	**2830**	**ug/L**	300	**20**	**300**	**2530**
SW-3	**Manganese**	**07/19/2007**	**389**	**ug/L**	50	**1.4**	**50**	**339**
SW-3	Zinc	07/19/2007	13.1	ug/L	10	1.0	1050	
TB	Toluene	07/20/2007	0.39	ug/L	1	0.15	1000	
EB	Toluene	07/20/2007	0.35	ug/L	1	0.15	1000	

[1] Table contains all constituents detected above MDL

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

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

[4] MDL = Method Detection Limit

NE=Not Established

Hydrologic Properties at Monitoring Well Locations

Iredell County C&D Landfill, Phases 1, 2, & 3

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-1A	2.00E-04	20%	0.07	73	N79E	24.04	843.70
MW-1C	na	20%	0.03	na	N79E	24.24	842.01
MW-9R	2.00E-04	15%	0.04	51	N72E	12.58	794.61
MW-9RR	1.53E-04	15%	0.27	283	N87E	18.4	787.76
MW-10R	9.00E-05	15%	0.04	23	N78E	23.33	797.41
MW-16	4.65E-04	15%	0.05	173	N74E	11.48	782.66
MW-22	3.35E-05	16.08%	0.06	12	N67E	32.23	800.08
MW-23	1.18E-04	16.08%	0.05	39	N54E	12.25	812.09
MW-24S	2.63E-04	16.08%	0.04	61	S60E	10.99	808.35
MW-25	3.72E-04	9.70%	0.02	92	N86E	21.12	844.04
MW-26S	1.81E-04	4.50%	0.10	414	S79E	14.16	819.38

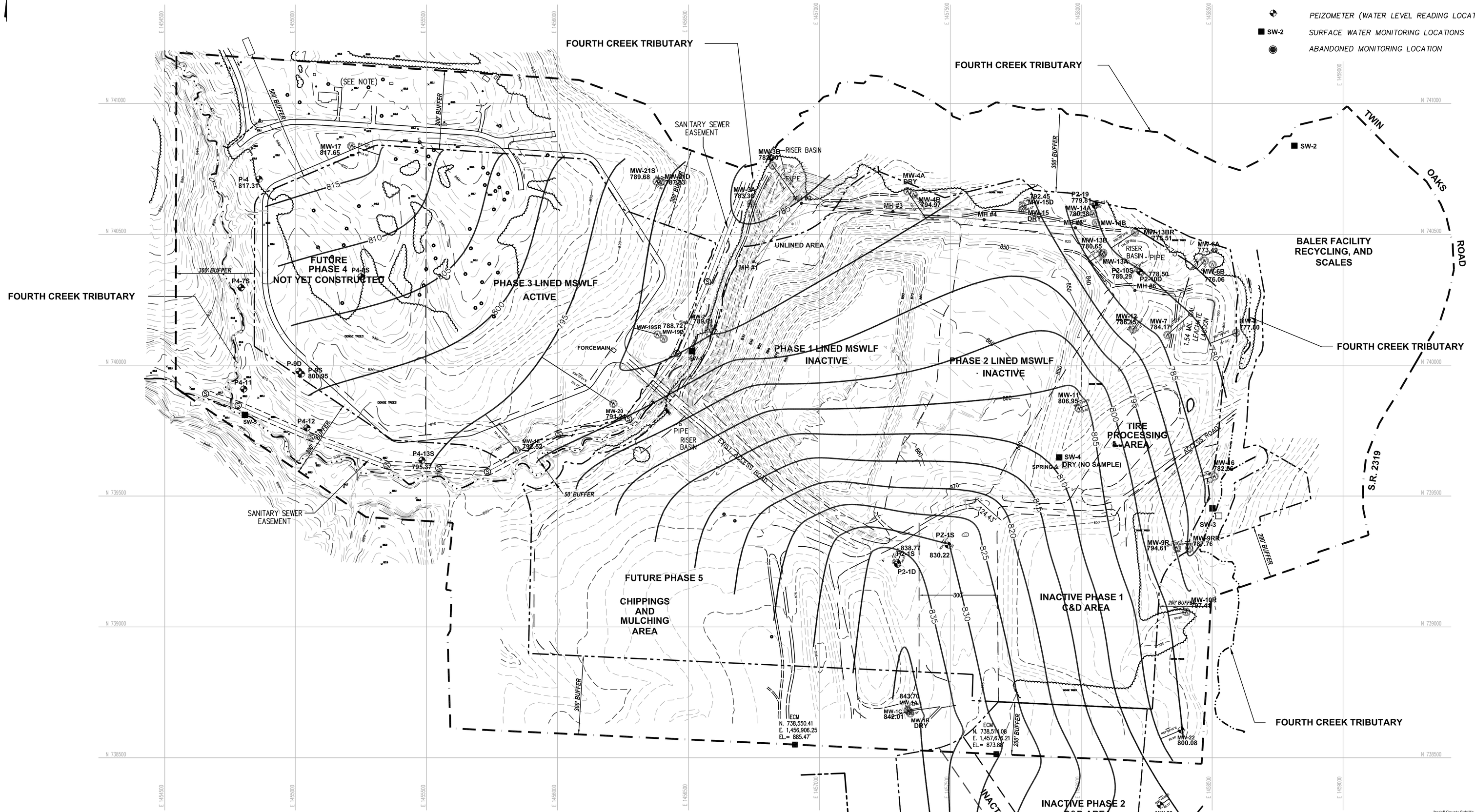
NOTE: MW-9 & MW-10 were replaced by MW-9R and MW-10R but the same values for hydraulic conductivity and effective porosity were used.
Values for hydraulic conductivity on all wells and piezometers determined via slug test by MESCO
Hydrologic Gradient taken from the July 19 & 20, 2007 sampling event.

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

NOTE:
EXISTING HOUSE USED AS TRANSPORTATION HUB

LEGEND

- SANITARY SEWER EASEMENT
- PHASE LIMITS
- CREEK
- 250 EXISTING CONTOURS
- PROPERTY LINE
- BUFFER ZONE
- PROPOSED SUBGRADE
- MONITORING WELL
- 782.71 SINGLE DAY WATER LEVEL READING
- EXTRAPOLATED SINGLE DAY WATER LEVEL READING
- PEIZOMETER (WATER LEVEL READING LOCATION)
- SW-2 SURFACE WATER MONITORING LOCATIONS
- ABANDONED MONITORING LOCATION



WELL #	TOP OF PIPE ELEVATION (FT)	DEPTH TO WATER (FT)	WATER ELEVATION (FT)
MW-4A	807.74	DRY	843.7
MW-4B	794.97	24.06	770.9
MW-5S	808.25	24.24	842.01
MW-5	797.62	8.61	789.01
MW-5A	792.3	8.74	783.56
MW-5B	791.51	7.51	783.7
MW-6A	822.7	DRY	N/A
MW-6B	827.93	50.44	777.49
MW-6A	793	19.51	773.49
MW-6B	798.87	23.79	774.08
MW-7	797.23	14.06	784.17
MW-8	797.8	19.66	777.8
MW-9R	813.61	19.00	794.61
MW-9RR	806.16	18.49	787.76
MW-10R	820.74	23.33	797.41
MW-11	821.46	14.51	806.95
MW-12	805.64	19.49	786.15
MW-13A	818.41	37.90	780.51
MW-13B	818.1	37.45	780.65
MW-13BR	811.31	35.80	775.51
MW-14A	818.38	38.00	780.38
MW-14B	818.54	38.00	779.54
MW-15	838.99	DRY	N/A
MW-15D	838.99	46.54	792.45
MW-16	798.14	5.58	792.56
P2-10S	812.37	32.08	780.29
P2-10D	812.37	33.87	778.5
P2-19	805.68	27.21	778.47
P2-1S	814.3	34.49	779.81
MW-17	854.35	36.70	817.65
MW-18	800.72	8.20	792.52
MW-19SR	797.36	8.64	788.72
MW-19D	795.81	7.28	788.53
MW-20	795.93	4.69	791.24
MW-21S	825.87	36.19	789.68
MW-21D	822.70	31.54	790.16
MW-22	824.16	32.24	791.92
MW-23	824.34	12.25	812.09
MW-24S	818.34	10.00	808.35
MW-24D	818.13	10.35	808.78
MW-25	852.93	21.72	831.21
MW-26S	833.54	14.16	819.38
MW-26D	833.84	13.14	820.8
P2-1S	873.42	43.20	830.22
P-9D	825.99	25.04	800.95
P-9S	826.05	24.81	801.24

Iredell County SubSite D Landfill July 15-20, 2007

Municipal Engineering Services Company, P.A.
P.O. BOX 349 BOONE, N.C. 28607 (704) 262-1767
P.O. BOX 97 GARNER, N.C. 27529 (919) 772-5393

MUNICIPAL SOLID WASTE LANDFILL FACILITY
IREDELL COUNTY NORTH CAROLINA

DATE	BY	REV.	DESCRIPTION
7/2/01	LCH	2	ADDED MONITORING WELL 21S/D
6/13/01	LCH	1	ADDED LEACHATE MONITORING POINT

SINGLE DAY POTENTIOMETRIC MAP (7/18/07)

SCALE: 1"=200'
DATE: 03/05/01
DRWN. BY: L. HAMPTON
CHKD. BY: K. YOSHIDA
PROJECT NUMBER G99087.6
DRAWING NO. MW1
SHEET NO. 1 OF 1

Sampling Data Sheet

Project: Iredell Co. C&D Landfill

Samplers: J. Pfohl P1 of 1

Monitoring Point	Sample Date	Sample Time	Sampling Parameters: Depth to Water (BTOP) Static	Parameters to be analyzed for	Volume Purged (Gal)	Sample Type	Comments	Water Quality Parameters: pH	Temp.	Specific Cond.	Turbidity	Total Depth
MW-10R	7/19/07	1:10	23.33	C&D	PD	P&D Baler		6.2	15.9	40	ST	25
MW-16		2:00	11.48	C&D	PD	P&D Baler		6.4	16.3	70	ST	20
MW-9RR		2:25	18.40	C&D	PD	P&D Baler	Bubbles	6.1	16.2	180	ST	22
MW-9R		3:00	12.58	C&D	PD	D Baler		6.2	16.3	210	C	20
SW-3		3:15	—	I	—	D.P	Barely Moving	7.1	25.3	30	ST	—
MW-22		3:40	32.23	C&D	3	P&D Baler		6.7	16.2	90	C	37
MW-23		4:15	12.25	C&D	5	P&D Baler		6.8	16.3	100	C	23
MW-24D		4:50	10.35	C&D	~~15~~ 14	P&D Baler		6.2	15.8	60	ST	38
MW-24S		5:25	10.99	C&D	3	P&D Baler		6.1	16.1	70	ST	16
CD-8M	NS	—	9.16	—	—	—						—
MW-26D	7/20/07	6:25	13.14	C&D	PD	P&D Baler		6.4	15.7	90	ST	61.78
MW-26S	7/20/07	6:55	14.16	C&D	PD	P&D Baler		6.3	16.0	100	C	20.25
CD3-11M	NS	NS	14.20	—	—	—					—	—
MW-25	7/20/07	7:40	21.12	C&D	PD	P&D Baler	Waste still ~80 yds away	6.3	15.9	120	MT	24.93
SW-6	NS	—	DRY	—	—	—	—	—	—	—	—	—

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

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

Wednesday, September 5, 2007

Municipal Engineering Services (MU001)

Attn: Jonathan Pfohl

P.O. Box 97

Garner, NC 27529

RE: Laboratory Results for
Project Number: G07013.0 (CD), Project Name/Desc: Iredell Co. C&D LF
ENCO Workorder: C709709

Dear Jonathan Pfohl,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, July 20, 2007.

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

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

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

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

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 69.

The Sulfate results for all samples may have a slight high bias due to a high recovery of the LCS. The sample was re-analyzed outside of holding time and confirmed the reported result. Also, the MS and MSD were not spiked during the sample prep but the data has been released based on a passing LCS.

Due to client inquiry regarding chloride data, a full review of all chloride results was conducted, and subsequently samples were reanalyzed on August 18th. As a result of the reanalysis, all samples have data that has been reported outside of method-specified holding times and has been qualified.

Corrective actions to address the initial performance issues have been taken, with all subsequent results indicating that the root causes identified have been fully addressed. Actions included changes to the instrument calibration and standardization procedures, as well as reassignment of the analysis to an alternate analyst.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: MW-16 MS/MSD **Lab ID:** C709709-01 **Sampled:** 07/19/07 14:00 **Received:** 07/20/07 17:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	07/26/07	07/26/07 07:27	8/1/2007 14:00
EPA 310.2	08/02/07	07/31/07 09:18	8/1/2007 08:32
EPA 375.4	08/16/07	08/02/07 15:33	8/6/2007 18:38
EPA 6010B	01/15/08	07/29/07 12:59	8/1/2007 13:19
EPA 6020	01/15/08	07/31/07 09:44	8/2/2007 18:02
EPA 7470A	08/16/07	07/26/07 16:47	7/27/2007 12:39
EPA 8260B	08/02/07	07/29/07 13:23	7/30/2007 04:52

Client ID: MW-16 MS/MSD **Lab ID:** C709709-01RE1 **Sampled:** 07/19/07 14:00 **Received:** 07/20/07 17:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
SM4500-Cl/E	08/16/07	08/03/07 07:30	8/18/2007 14:40

Client ID: MW-10R **Lab ID:** C709709-02 **Sampled:** 07/19/07 13:10 **Received:** 07/20/07 17:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	07/26/07	07/26/07 07:27	8/1/2007 14:00
EPA 310.2	08/02/07	07/31/07 09:18	8/1/2007 08:34
EPA 375.4	08/16/07	08/02/07 15:33	8/6/2007 18:52
EPA 6010B	01/15/08	07/29/07 12:59	8/1/2007 13:54
EPA 6020	01/15/08	07/31/07 09:44	8/2/2007 18:10
EPA 7470A	08/16/07	07/26/07 16:47	7/27/2007 12:41
EPA 8260B	08/02/07	07/29/07 13:23	7/30/2007 05:18

Client ID: MW-10R **Lab ID:** C709709-02RE1 **Sampled:** 07/19/07 13:10 **Received:** 07/20/07 17:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
SM4500-Cl/E	08/16/07	08/03/07 07:30	8/18/2007 14:41

Client ID: MW-9RR **Lab ID:** C709709-03 **Sampled:** 07/19/07 14:25 **Received:** 07/20/07 17:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	07/26/07	07/26/07 07:27	8/1/2007 14:00
EPA 310.2	08/02/07	07/31/07 09:18	8/1/2007 08:35
EPA 375.4	08/16/07	08/02/07 15:33	8/6/2007 20:28
EPA 6010B	01/15/08	07/29/07 12:59	8/1/2007 14:01
EPA 6020	01/15/08	07/31/07 09:44	8/2/2007 18:12
EPA 7470A	08/16/07	07/26/07 16:47	7/27/2007 13:14
EPA 8260B	08/02/07	07/29/07 13:23	7/30/2007 05:44

Client ID: MW-9RR **Lab ID:** C709709-03RE1 **Sampled:** 07/19/07 14:25 **Received:** 07/20/07 17:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
SM4500-Cl/E	08/16/07	08/03/07 07:30	8/18/2007 14:42

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Client ID:	MW-9R	Lab ID:	C709709-04	Sampled:	07/19/07 15:00	Received:	07/20/07 17:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 160.1	07/26/07	07/26/07	07:27	8/1/2007 14:00
EPA 310.2	08/02/07	07/31/07	09:18	8/1/2007 08:36
EPA 375.4	08/16/07	08/02/07	15:33	8/6/2007 19:02
EPA 6010B	01/15/08	07/29/07	12:59	8/1/2007 14:22
EPA 6020	01/15/08	07/31/07	09:44	8/2/2007 18:15
EPA 7470A	08/16/07	07/26/07	16:47	7/27/2007 13:16
EPA 8260B	08/02/07	07/29/07	13:23	7/30/2007 06:11

Client ID:	MW-9R	Lab ID:	C709709-04RE1	Sampled:	07/19/07 15:00	Received:	07/20/07 17:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
SM4500-Cl/E	08/16/07	08/03/07	07:30	8/18/2007 14:43

Client ID:	SW-3	Lab ID:	C709709-05	Sampled:	07/19/07 15:15	Received:	07/20/07 17:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010B	01/15/08	07/29/07	12:59	8/1/2007 14:29
EPA 6020	01/15/08	07/31/07	09:44	8/2/2007 18:17
EPA 7470A	08/16/07	07/26/07	16:47	7/27/2007 13:18
EPA 8260B	08/02/07	07/29/07	13:23	7/30/2007 06:37

Client ID:	MW-22	Lab ID:	C709709-06	Sampled:	07/19/07 15:40	Received:	07/20/07 17:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 160.1	07/26/07	07/26/07	07:27	8/1/2007 14:00
EPA 310.2	08/02/07	07/31/07	09:18	8/1/2007 08:37
EPA 375.4	08/16/07	08/02/07	15:33	8/6/2007 19:06
EPA 6010B	01/15/08	07/29/07	12:59	8/1/2007 14:36
EPA 6020	01/15/08	07/31/07	09:44	8/2/2007 18:25
EPA 7470A	08/16/07	07/26/07	16:47	7/27/2007 13:21
EPA 8260B	08/02/07	07/29/07	13:23	7/30/2007 07:03

Client ID:	MW-22	Lab ID:	C709709-06RE1	Sampled:	07/19/07 15:40	Received:	07/20/07 17:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
SM4500-Cl/E	08/16/07	08/03/07	07:30	8/18/2007 14:44

Client ID:	MW-23	Lab ID:	C709709-07	Sampled:	07/19/07 16:15	Received:	07/20/07 17:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 160.1	07/26/07	07/26/07	07:27	8/1/2007 14:00
EPA 310.2	08/02/07	07/31/07	09:18	8/1/2007 08:38
EPA 375.4	08/16/07	08/02/07	15:33	8/6/2007 20:33
EPA 6010B	01/15/08	07/29/07	12:59	8/1/2007 14:43
EPA 6020	01/15/08	07/31/07	09:44	8/2/2007 18:27
EPA 7470A	08/16/07	07/26/07	16:47	7/27/2007 13:23
EPA 8260B	08/02/07	07/29/07	13:23	7/30/2007 07:30

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Client ID:	MW-23	Lab ID:	C709709-07RE1	Sampled:	07/19/07 16:15	Received:	07/20/07 17:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
SM4500-Cl/E	08/16/07	08/03/07 07:30	8/18/2007 14:45

Client ID:	MW-24D	Lab ID:	C709709-08	Sampled:	07/19/07 16:50	Received:	07/20/07 17:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	07/26/07	07/26/07 07:27	8/1/2007 14:00
EPA 310.2	08/02/07	07/31/07 09:18	8/1/2007 08:38
EPA 375.4	08/16/07	08/02/07 15:33	8/6/2007 19:15
EPA 6010B	01/15/08	07/29/07 12:59	8/1/2007 14:50
EPA 6020	01/15/08	07/31/07 09:44	8/2/2007 18:30
EPA 7470A	08/16/07	07/26/07 16:47	7/27/2007 13:25
EPA 8260B	08/02/07	07/29/07 13:23	7/30/2007 07:56

Client ID:	MW-24D	Lab ID:	C709709-08RE1	Sampled:	07/19/07 16:50	Received:	07/20/07 17:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
SM4500-Cl/E	08/16/07	08/03/07 07:30	8/18/2007 14:45

Client ID:	MW-24S	Lab ID:	C709709-09	Sampled:	07/19/07 17:25	Received:	07/20/07 17:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	07/26/07	07/26/07 07:27	8/1/2007 14:00
EPA 310.2	08/02/07	07/31/07 09:18	8/1/2007 08:41
EPA 375.4	08/16/07	08/02/07 15:33	8/6/2007 19:20
EPA 6010B	01/15/08	07/29/07 12:59	8/1/2007 14:57
EPA 6020	01/15/08	07/31/07 09:44	8/2/2007 18:32
EPA 7470A	08/16/07	07/26/07 16:47	7/27/2007 13:27
EPA 8260B	08/02/07	07/29/07 13:23	7/30/2007 08:22

Client ID:	MW-24S	Lab ID:	C709709-09RE1	Sampled:	07/19/07 17:25	Received:	07/20/07 17:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
SM4500-Cl/E	08/16/07	08/03/07 07:30	8/18/2007 14:46

Client ID:	MW-26D	Lab ID:	C709709-10	Sampled:	07/20/07 06:25	Received:	07/20/07 17:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	07/27/07	07/26/07 07:27	8/1/2007 14:00
EPA 310.2	08/03/07	07/31/07 09:18	8/1/2007 08:42
EPA 375.4	08/17/07	08/02/07 15:33	8/6/2007 19:34
EPA 6010B	01/16/08	07/29/07 12:59	8/1/2007 15:04
EPA 6020	01/16/08	07/31/07 09:44	8/2/2007 18:34
EPA 7470A	08/17/07	07/26/07 16:47	7/27/2007 13:29
EPA 8260B	08/03/07	07/29/07 12:57	7/29/2007 21:51

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Client ID:	MW-26D	Lab ID:	C709709-10RE1	Sampled:	07/20/07 06:25	Received:	07/20/07 17:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
SM4500-Cl/E	08/17/07	08/03/07 07:30	8/18/2007 14:46

Client ID:	MW-26S	Lab ID:	C709709-11	Sampled:	07/20/07 06:55	Received:	07/20/07 17:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	07/27/07	07/26/07 07:27	8/1/2007 14:00
EPA 310.2	08/03/07	07/31/07 09:18	8/1/2007 08:43
EPA 375.4	08/17/07	08/02/07 15:33	8/6/2007 19:39
EPA 6010B	01/16/08	07/29/07 12:59	8/1/2007 15:11
EPA 6020	01/16/08	07/31/07 09:44	8/2/2007 18:37
EPA 7470A	08/17/07	07/26/07 16:47	7/27/2007 13:36
EPA 8260B	08/03/07	07/29/07 12:57	7/29/2007 22:17

Client ID:	MW-26S	Lab ID:	C709709-11RE1	Sampled:	07/20/07 06:55	Received:	07/20/07 17:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
SM4500-Cl/E	08/17/07	08/03/07 07:30	8/18/2007 14:47

Client ID:	MW-25	Lab ID:	C709709-12	Sampled:	07/20/07 07:40	Received:	07/20/07 17:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 160.1	07/27/07	07/26/07 07:27	8/1/2007 14:00
EPA 310.2	08/03/07	07/31/07 09:18	8/1/2007 08:43
EPA 375.4	08/17/07	08/02/07 15:33	8/6/2007 19:43
EPA 6010B	01/16/08	07/29/07 12:59	8/1/2007 15:18
EPA 6020	01/16/08	07/31/07 09:44	8/2/2007 18:39
EPA 7470A	08/17/07	07/26/07 16:47	7/27/2007 13:39
EPA 8260B	08/03/07	07/29/07 12:57	7/29/2007 22:44

Client ID:	MW-25	Lab ID:	C709709-12RE1	Sampled:	07/20/07 07:40	Received:	07/20/07 17:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
SM4500-Cl/E	08/17/07	08/03/07 07:30	8/18/2007 14:47

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: MW-16 MS/MSD **Lab ID:** C709709-01

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dichlorobenzene	0.66	J	1	0.15	1.0	1	ug/L	EPA 8260B	
Barium	170		1	0.20	10.0	100	ug/L	EPA 6010B	
Benzene	1.3		1	0.12	1.0	1	ug/L	EPA 8260B	
Iron	5550		1	20	50	300	ug/L	EPA 6010B	
Manganese	154		1	1.4	10.0	50	ug/L	EPA 6010B	
Tetrachloroethene	0.39	J	1	0.25	1.0	1	ug/L	EPA 8260B	
Total Alkalinity	80		1	5.2	15	NE	mg/L	EPA 310.2	
Total Dissolved Solids	130		1	10	10	NE	mg/L	EPA 160.1	
Trichloroethene	0.88	J	1	0.23	1.0	1	ug/L	EPA 8260B	
Vanadium	14.5	J	1	1.0	10.0	25	ug/L	EPA 6010B	
Zinc	28.8		1	1.0	10.0	10	ug/L	EPA 6010B	

Client ID: MW-16 MS/MSD **Lab ID:** C709709-01RE1

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Chloride	8.6		1	2.0	5.0	NE	mg/L	SM4500-Cl/E	Q

Client ID: MW-10R **Lab ID:** C709709-02

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium	92.0	J	1	0.20	10.0	100	ug/L	EPA 6010B	
Iron	572		1	20	50	300	ug/L	EPA 6010B	
Manganese	32.7	J	1	1.4	10.0	50	ug/L	EPA 6010B	
Thallium	0.091	J	1	0.036	0.050	5.5	ug/L	EPA 6020	
Total Alkalinity	13		1	5.2	15	NE	mg/L	EPA 310.2	
Total Dissolved Solids	24		1	10	10	NE	mg/L	EPA 160.1	

Client ID: MW-10R **Lab ID:** C709709-02RE1

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Chloride	5.9		1	2.0	5.0	NE	mg/L	SM4500-Cl/E	Q

Client ID: MW-9RR **Lab ID:** C709709-03

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium	122		1	0.20	10.0	100	ug/L	EPA 6010B	
Benzene	1.5		1	0.12	1.0	1	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	9.1		1	0.14	1.0	5	ug/L	EPA 8260B	
Iron	4610		1	20	50	300	ug/L	EPA 6010B	
Manganese	507		1	1.4	10.0	50	ug/L	EPA 6010B	
Sulfate as SO4	170		4	20	40	NE	mg/L	EPA 375.4	J-01
Thallium	0.092	J	1	0.036	0.050	5.5	ug/L	EPA 6020	
Total Alkalinity	61		1	5.2	15	NE	mg/L	EPA 310.2	
Total Dissolved Solids	370		1	10	10	NE	mg/L	EPA 160.1	
Trichloroethene	0.85	J	1	0.23	1.0	1	ug/L	EPA 8260B	
Zinc	14.6		1	1.0	10.0	10	ug/L	EPA 6010B	

Client ID: MW-9RR **Lab ID:** C709709-03RE1

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Chloride	61		1	2.0	5.0	NE	mg/L	SM4500-Cl/E	Q

Client ID: MW-9R **Lab ID:** C709709-04

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium	340		1	0.20	10.0	100	ug/L	EPA 6010B	
Benzene	1.4		1	0.12	1.0	1	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	6.6		1	0.14	1.0	5	ug/L	EPA 8260B	
Cobalt	14.7		1	2.0	10.0	10	ug/L	EPA 6010B	
Iron	295	J	1	20	50	300	ug/L	EPA 6010B	
Manganese	4380		1	1.4	10.0	50	ug/L	EPA 6010B	
Sulfate as SO4	22		1	5.0	10	NE	mg/L	EPA 375.4	
Thallium	0.210	J	1	0.036	0.050	5.5	ug/L	EPA 6020	
Total Alkalinity	180		1	5.2	15	NE	mg/L	EPA 310.2	
Total Dissolved Solids	320		1	10	10	NE	mg/L	EPA 160.1	
Trichloroethene	1.6		1	0.23	1.0	1	ug/L	EPA 8260B	

Client ID: MW-9R **Lab ID:** C709709-04RE1

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Chloride	59		1	2.0	5.0	NE	mg/L	SM4500-Cl/E	Q

Client ID: SW-3 **Lab ID:** C709709-05

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium	62.2	J	1	0.20	10.0	100	ug/L	EPA 6010B	
Iron	2830		1	20	50	300	ug/L	EPA 6010B	
Manganese	389		1	1.4	10.0	50	ug/L	EPA 6010B	
Zinc	13.1		1	1.0	10.0	10	ug/L	EPA 6010B	

Client ID: MW-22 **Lab ID:** C709709-06

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium	104		1	0.20	10.0	100	ug/L	EPA 6010B	
Iron	323		1	20	50	300	ug/L	EPA 6010B	
Manganese	7.0	J	1	1.4	10.0	50	ug/L	EPA 6010B	
Total Alkalinity	26		1	5.2	15	NE	mg/L	EPA 310.2	
Total Dissolved Solids	34		1	10	10	NE	mg/L	EPA 160.1	
Zinc	11.5		1	1.0	10.0	10	ug/L	EPA 6010B	

Client ID: MW-23 **Lab ID:** C709709-07

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium	252		1	0.20	10.0	100	ug/L	EPA 6010B	
Iron	923		1	20	50	300	ug/L	EPA 6010B	
Manganese	83.1		1	1.4	10.0	50	ug/L	EPA 6010B	
Sulfate as SO4	90		4	20	40	NE	mg/L	EPA 375.4	
Total Alkalinity	29		1	5.2	15	NE	mg/L	EPA 310.2	
Total Dissolved Solids	180		1	10	10	NE	mg/L	EPA 160.1	

Client ID: MW-23 **Lab ID:** C709709-07RE1

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Chloride	17		1	2.0	5.0	NE	mg/L	SM4500-Cl/E	Q

Client ID: MW-24D **Lab ID:** C709709-08

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium	25.6	J	1	0.20	10.0	100	ug/L	EPA 6010B	
Cadmium	3.00		1	0.50	1.00	1	ug/L	EPA 6010B	
Copper	11.8		1	0.60	10.0	10	ug/L	EPA 6010B	
Iron	4580		1	20	50	300	ug/L	EPA 6010B	

Client ID: MW-24D **Lab ID:** C709709-08

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Manganese	167		1	1.4	10.0	50	ug/L	EPA 6010B	
Total Alkalinity	24		1	5.2	15	NE	mg/L	EPA 310.2	
Total Dissolved Solids	90		1	10	10	NE	mg/L	EPA 160.1	
Vanadium	17.1	J	1	1.0	10.0	25	ug/L	EPA 6010B	
Zinc	22.9		1	1.0	10.0	10	ug/L	EPA 6010B	

Client ID: MW-24D **Lab ID:** C709709-08RE1

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Chloride	2.4		1	2.0	5.0	NE	mg/L	SM4500-Cl/E	Q

Client ID: MW-24S **Lab ID:** C709709-09

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium	93.4	J	1	0.20	10.0	100	ug/L	EPA 6010B	
Iron	9460		1	20	50	300	ug/L	EPA 6010B	
Manganese	260		1	1.4	10.0	50	ug/L	EPA 6010B	
Total Alkalinity	16		1	5.2	15	NE	mg/L	EPA 310.2	
Total Dissolved Solids	86		1	10	10	NE	mg/L	EPA 160.1	
Vanadium	18.8	J	1	1.0	10.0	25	ug/L	EPA 6010B	
Zinc	31.8		1	1.0	10.0	10	ug/L	EPA 6010B	

Client ID: MW-24S **Lab ID:** C709709-09RE1

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Chloride	4.9		1	2.0	5.0	NE	mg/L	SM4500-Cl/E	Q

Client ID: MW-26D **Lab ID:** C709709-10

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Antimony	0.75	J	1	0.68	2.00	6	ug/L	EPA 6020	
Barium	61.2	J	1	0.20	10.0	100	ug/L	EPA 6010B	
Cadmium	1.10		1	0.50	1.00	1	ug/L	EPA 6010B	
Copper	13.0		1	0.60	10.0	10	ug/L	EPA 6010B	
Iron	6590		1	20	50	300	ug/L	EPA 6010B	
Manganese	202		1	1.4	10.0	50	ug/L	EPA 6010B	
Sulfate as SO4	5.8		1	5.0	10	NE	mg/L	EPA 375.4	
Total Alkalinity	75		1	5.2	15	NE	mg/L	EPA 310.2	
Total Dissolved Solids	98		1	10	10	NE	mg/L	EPA 160.1	
Vanadium	34.6		1	1.0	10.0	25	ug/L	EPA 6010B	
Zinc	37.4		1	1.0	10.0	10	ug/L	EPA 6010B	

Client ID: MW-26S **Lab ID:** C709709-11

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium	104		1	0.20	10.0	100	ug/L	EPA 6010B	
Iron	1710		1	20	50	300	ug/L	EPA 6010B	
Manganese	53.1		1	1.4	10.0	50	ug/L	EPA 6010B	
Total Alkalinity	10		1	5.2	15	NE	mg/L	EPA 310.2	
Total Dissolved Solids	74		1	10	10	NE	mg/L	EPA 160.1	

Client ID: MW-26S **Lab ID:** C709709-11RE1

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Chloride	3.6		1	2.0	5.0	NE	mg/L	SM4500-Cl/E	Q

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Client ID: MW-25						Lab ID: C709709-12			
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Barium	61.0	J	1	0.20	10.0	100	ug/L	EPA 6010B	
Iron	3150		1	20	50	300	ug/L	EPA 6010B	
Manganese	88.0		1	1.4	10.0	50	ug/L	EPA 6010B	
Mercury	0.38		1	0.11	0.20	0.2	ug/L	EPA 7470A	
Total Alkalinity	24		1	5.2	15	NE	mg/L	EPA 310.2	
Total Dissolved Solids	96		1	10	10	NE	mg/L	EPA 160.1	
Zinc	10.5		1	1.0	10.0	10	ug/L	EPA 6010B	

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ANALYTICAL RESULTS

Description: MW-16 MS/MSD
Matrix: Ground Water
Project: Iredell Co. C&D LF

Lab Sample ID: C709709-01
Sampled: 07/19/07 14:00
Sampled By: J.P. Fohl

Received: 07/20/07 17:00
Work Order: C709709

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	07/30/07 04:52	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	07/30/07 04:52	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/30/07 04:52	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/30/07 04:52	jkg	
1,1-Dichloroethane [75-34-3] *	0.090	U	ug/L	1	0.090	1.0	5	EPA 8260B	07/30/07 04:52	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	07/30/07 04:52	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	07/30/07 04:52	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	07/30/07 04:52	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	07/30/07 04:52	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	07/30/07 04:52	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/30/07 04:52	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/30/07 04:52	jkg	
1,4-Dichlorobenzene [106-46-7] *	**0.66**	J	ug/L	1	0.15	1.0	1	EPA 8260B	07/30/07 04:52	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	07/30/07 04:52	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	07/30/07 04:52	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	07/30/07 04:52	jkg	
Acetone [67-64-1] *	0.90	U	ug/L	1	0.90	5.0	100	EPA 8260B	07/30/07 04:52	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	07/30/07 04:52	jkg	
Benzene [71-43-2] *	**1.3**		ug/L	1	0.12	1.0	1	EPA 8260B	07/30/07 04:52	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	07/30/07 04:52	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	0.40	1	EPA 8260B	07/30/07 04:52	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	07/30/07 04:52	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	07/30/07 04:52	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	07/30/07 04:52	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/07 04:52	jkg	
Chlorobenzene [108-90-7] *	0.16	U	ug/L	1	0.16	1.0	3	EPA 8260B	07/30/07 04:52	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	07/30/07 04:52	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	07/30/07 04:52	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/30/07 04:52	jkg	
cis-1,2-Dichloroethene [156-59-2] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	07/30/07 04:52	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	0.20	1	EPA 8260B	07/30/07 04:52	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/30/07 04:52	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	07/30/07 04:52	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	07/30/07 04:52	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	07/30/07 04:52	jkg	
Methylene chloride [75-09-2] *	0.088	U	ug/L	1	0.088	2.0	1	EPA 8260B	07/30/07 04:52	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	07/30/07 04:52	jkg	
Tetrachloroethene [127-18-4] *	**0.39**	J	ug/L	1	0.25	1.0	1	EPA 8260B	07/30/07 04:52	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/30/07 04:52	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	07/30/07 04:52	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	0.20	1	EPA 8260B	07/30/07 04:52	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	07/30/07 04:52	jkg	
Trichloroethene [79-01-6] *	**0.88**	J	ug/L	1	0.23	1.0	1	EPA 8260B	07/30/07 04:52	jkg	
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	07/30/07 04:52	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	07/30/07 04:52	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/30/07 04:52	jkg	

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Description:	MW-16 MS/MSD	**Lab Sample ID:**	C709709-01	**Received:**	07/20/07 17:00
Matrix:	Ground Water	**Sampled:**	07/19/07 14:00	**Work Order:**	C709709
Project:	Iredell Co. C&D LF	**Sampled By:**	J.P. Fohl		

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	4	EPA 8260B	07/30/07 04:52	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*42*	*1*	*50.0*	*84 %*	*67-125*	*7G29004*	*EPA 8260B*	*07/30/07 04:52*	*jkg*	
Dibromofluoromethane	*44*	*1*	*50.0*	*88 %*	*69-111*	*7G29004*	*EPA 8260B*	*07/30/07 04:52*	*jkg*	
Toluene-d8	*48*	*1*	*50.0*	*95 %*	*85-120*	*7G29004*	*EPA 8260B*	*07/30/07 04:52*	*jkg*	

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Description: MW-16 MS/MSD
Matrix: Ground Water
Project: Iredell Co. C&D LF

Lab Sample ID: C709709-01
Sampled: 07/19/07 14:00
Sampled By: J.P. Fohl

Received: 07/20/07 17:00
Work Order: C709709

Metals by EPA 6000/7000 Series Methods

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] *	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	08/02/07 18:02	JFL	
Arsenic [7440-38-2] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 13:19	JDH	
Barium [7440-39-3] *	**170**		ug/L	1		10.0	100	EPA 6010B	08/01/07 13:19	JDH	
Beryllium [7440-41-7] *	0.70	U	ug/L	1		1.00	1	EPA 6010B	08/01/07 13:19	JDH	
Cadmium [7440-43-9] *	0.50	U	ug/L	1		1.00	1	EPA 6010B	08/01/07 13:19	JDH	
Chromium [7440-47-3] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 13:19	JDH	
Cobalt [7440-48-4] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 13:19	JDH	
Copper [7440-50-8] *	0.60	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 13:19	JDH	
Iron [7439-89-6] *	**5550**		ug/L	1	20	50	300	EPA 6010B	08/01/07 13:19	JDH	
Lead [7439-92-1] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 13:19	JDH	
Manganese [7439-96-5] *	**154**		ug/L	1	1.4	10.0	50	EPA 6010B	08/01/07 13:19	JDH	
Nickel [7440-02-0] *	2.0	U	ug/L	1		10.0	50	EPA 6010B	08/01/07 13:19	JDH	
Selenium [7782-49-2] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 13:19	JDH	
Silver [7440-22-4] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 13:19	JDH	
Thallium [7440-28-0] *	0.036	U	ug/L	1	0.036	0.050	5.5	EPA 6020	08/02/07 18:02	JFL	
Vanadium [7440-62-2] *	**14.5**	J	ug/L	1		10.0	25	EPA 6010B	08/01/07 13:19	JDH	
Zinc [7440-66-6] *	**28.8**		ug/L	1		10.0	10	EPA 6010B	08/01/07 13:19	JDH	

Classical Chemistry Parameters

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Chloride [16887-00-6] *	**8.6**		mg/L	1	2.0	5.0	NE	SM4500-Cl/E	08/18/07 14:40	RWH	Q
Sulfate as SO4 [14808-79-8]	5.0	U	mg/L	1	5.0	10	NE	EPA 375.4	08/06/07 18:38	AJ	
Total Alkalinity [NA] *	**80**		mg/L	1	5.2	15	NE	EPA 310.2	08/01/07 08:32	AMH	
Total Dissolved Solids [NA] *	**130**		mg/L	1	10	10	NE	EPA 160.1	08/01/07 14:00	JOC	

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Description:	MW-16 MS/MSD	**Lab Sample ID:**	C709709-01	**Received:**	07/20/07 17:00
Matrix:	Ground Water	**Sampled:**	07/19/07 14:00	**Work Order:**	C709709
Project:	Iredell Co. C&D LF	**Sampled By:**	J.P. Fohl		

Metals by EPA 6000/7000 Series Methods

** - ENCO Jacksonville certified analyte [NC 442]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] *	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	07/27/07 12:39	HG	U

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Description: MW-10R
Matrix: Ground Water
Project: Iredell Co. C&D LF

Lab Sample ID: C709709-02
Sampled: 07/19/07 13:10
Sampled By: J.P. Fohl

Received: 07/20/07 17:00
Work Order: C709709

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	07/30/07 05:18	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	07/30/07 05:18	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/30/07 05:18	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/30/07 05:18	jkg	
1,1-Dichloroethane [75-34-3] *	0.090	U	ug/L	1	0.090	1.0	5	EPA 8260B	07/30/07 05:18	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	07/30/07 05:18	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	07/30/07 05:18	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	07/30/07 05:18	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	07/30/07 05:18	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	07/30/07 05:18	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/30/07 05:18	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/30/07 05:18	jkg	
1,4-Dichlorobenzene [106-46-7] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/30/07 05:18	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	07/30/07 05:18	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	07/30/07 05:18	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	07/30/07 05:18	jkg	
Acetone [67-64-1] *	0.90	U	ug/L	1	0.90	5.0	100	EPA 8260B	07/30/07 05:18	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	07/30/07 05:18	jkg	
Benzene [71-43-2] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	07/30/07 05:18	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	07/30/07 05:18	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	0.40	1	EPA 8260B	07/30/07 05:18	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	07/30/07 05:18	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	07/30/07 05:18	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	07/30/07 05:18	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/07 05:18	jkg	
Chlorobenzene [108-90-7] *	0.16	U	ug/L	1	0.16	1.0	3	EPA 8260B	07/30/07 05:18	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	07/30/07 05:18	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	07/30/07 05:18	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/30/07 05:18	jkg	
cis-1,2-Dichloroethene [156-59-2] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	07/30/07 05:18	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	0.20	1	EPA 8260B	07/30/07 05:18	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/30/07 05:18	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	07/30/07 05:18	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	07/30/07 05:18	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	07/30/07 05:18	jkg	
Methylene chloride [75-09-2] *	0.088	U	ug/L	1	0.088	2.0	1	EPA 8260B	07/30/07 05:18	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	07/30/07 05:18	jkg	
Tetrachloroethene [127-18-4] *	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	07/30/07 05:18	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/30/07 05:18	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	07/30/07 05:18	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	0.20	1	EPA 8260B	07/30/07 05:18	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	07/30/07 05:18	jkg	
Trichloroethene [79-01-6] *	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	07/30/07 05:18	jkg	
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	07/30/07 05:18	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	07/30/07 05:18	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/30/07 05:18	jkg	
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	4	EPA 8260B	07/30/07 05:18	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**

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Description:	MW-10R	**Lab Sample ID:**	C709709-02	**Received:**	07/20/07 17:00
Matrix:	Ground Water	**Sampled:**	07/19/07 13:10	**Work Order:**	C709709
Project:	Iredell Co. C&D LF	**Sampled By:**	J.P. Fohl		

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**
4-Bromofluorobenzene	*41*	*1*	*50.0*	*82 %*	*67-125*	*7G29004*	*EPA 8260B*	*07/30/07 05:18*	*jkg*	
Dibromofluoromethane	*44*	*1*	*50.0*	*88 %*	*69-111*	*7G29004*	*EPA 8260B*	*07/30/07 05:18*	*jkg*	
Toluene-d8	*46*	*1*	*50.0*	*93 %*	*85-120*	*7G29004*	*EPA 8260B*	*07/30/07 05:18*	*jkg*	

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Description: MW-10R
Matrix: Ground Water
Project: Iredell Co. C&D LF

Lab Sample ID: C709709-02
Sampled: 07/19/07 13:10
Sampled By: J.P. Fohl

Received: 07/20/07 17:00
Work Order: C709709

Metals by EPA 6000/7000 Series Methods

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] *	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	08/02/07 18:10	JFL	
Arsenic [7440-38-2] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 13:54	JDH	
Barium [7440-39-3] *	**92.0**	J	ug/L	1		10.0	100	EPA 6010B	08/01/07 13:54	JDH	
Beryllium [7440-41-7] *	0.70	U	ug/L	1		1.00	1	EPA 6010B	08/01/07 13:54	JDH	
Cadmium [7440-43-9] *	0.50	U	ug/L	1		1.00	1	EPA 6010B	08/01/07 13:54	JDH	
Chromium [7440-47-3] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 13:54	JDH	
Cobalt [7440-48-4] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 13:54	JDH	
Copper [7440-50-8] *	0.60	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 13:54	JDH	
Iron [7439-89-6] *	**572**		ug/L	1	20	50	300	EPA 6010B	08/01/07 13:54	JDH	
Lead [7439-92-1] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 13:54	JDH	
Manganese [7439-96-5] *	**32.7**	J	ug/L	1	1.4	10.0	50	EPA 6010B	08/01/07 13:54	JDH	
Nickel [7440-02-0] *	2.0	U	ug/L	1		10.0	50	EPA 6010B	08/01/07 13:54	JDH	
Selenium [7782-49-2] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 13:54	JDH	
Silver [7440-22-4] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 13:54	JDH	
Thallium [7440-28-0] *	**0.091**	J	ug/L	1	0.036	0.050	5.5	EPA 6020	08/02/07 18:10	JFL	
Vanadium [7440-62-2] *	1.0	U	ug/L	1		10.0	25	EPA 6010B	08/01/07 13:54	JDH	
Zinc [7440-66-6] *	1.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 13:54	JDH	

Classical Chemistry Parameters

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Chloride [16887-00-6] *	**5.9**		mg/L	1	2.0	5.0	NE	SM4500-Cl/E	08/18/07 14:41	RWH	Q
Sulfate as SO4 [14808-79-8]	5.0	U	mg/L	1	5.0	10	NE	EPA 375.4	08/06/07 18:52	RWH	
Total Alkalinity [NA] *	**13**		mg/L	1	5.2	15	NE	EPA 310.2	08/01/07 08:34	AMH	
Total Dissolved Solids [NA] *	**24**		mg/L	1	10	10	NE	EPA 160.1	08/01/07 14:00	JOC	

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Description:	MW-10R	**Lab Sample ID:**	C709709-02	**Received:**	07/20/07 17:00
Matrix:	Ground Water	**Sampled:**	07/19/07 13:10	**Work Order:**	C709709
Project:	Iredell Co. C&D LF	**Sampled By:**	J.P. Fohl		

Metals by EPA 6000/7000 Series Methods

** - ENCO Jacksonville certified analyte [NC 442]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] *	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	07/27/07 12:41	HG	U

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Description: MW-9RR
Matrix: Ground Water
Project: Iredell Co. C&D LF

Lab Sample ID: C709709-03
Sampled: 07/19/07 14:25
Sampled By: J.P. Fohl

Received: 07/20/07 17:00
Work Order: C709709

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	07/30/07 05:44	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	07/30/07 05:44	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/30/07 05:44	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/30/07 05:44	jkg	
1,1-Dichloroethane [75-34-3] *	0.090	U	ug/L	1	0.090	1.0	5	EPA 8260B	07/30/07 05:44	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	07/30/07 05:44	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	07/30/07 05:44	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	07/30/07 05:44	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	07/30/07 05:44	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	07/30/07 05:44	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/30/07 05:44	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/30/07 05:44	jkg	
1,4-Dichlorobenzene [106-46-7] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/30/07 05:44	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	07/30/07 05:44	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	07/30/07 05:44	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	07/30/07 05:44	jkg	
Acetone [67-64-1] *	0.90	U	ug/L	1	0.90	5.0	100	EPA 8260B	07/30/07 05:44	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	07/30/07 05:44	jkg	
Benzene [71-43-2] *	**1.5**		ug/L	1	0.12	1.0	1	EPA 8260B	07/30/07 05:44	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	07/30/07 05:44	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	0.40	1	EPA 8260B	07/30/07 05:44	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	07/30/07 05:44	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	07/30/07 05:44	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	07/30/07 05:44	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/07 05:44	jkg	
Chlorobenzene [108-90-7] *	0.16	U	ug/L	1	0.16	1.0	3	EPA 8260B	07/30/07 05:44	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	07/30/07 05:44	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	07/30/07 05:44	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/30/07 05:44	jkg	
cis-1,2-Dichloroethene [156-59-2] *	**9.1**		ug/L	1	0.14	1.0	5	EPA 8260B	07/30/07 05:44	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	0.20	1	EPA 8260B	07/30/07 05:44	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/30/07 05:44	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	07/30/07 05:44	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	07/30/07 05:44	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	07/30/07 05:44	jkg	
Methylene chloride [75-09-2] *	0.088	U	ug/L	1	0.088	2.0	1	EPA 8260B	07/30/07 05:44	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	07/30/07 05:44	jkg	
Tetrachloroethene [127-18-4] *	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	07/30/07 05:44	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/30/07 05:44	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	07/30/07 05:44	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	0.20	1	EPA 8260B	07/30/07 05:44	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	07/30/07 05:44	jkg	
Trichloroethene [79-01-6] *	**0.85**	J	ug/L	1	0.23	1.0	1	EPA 8260B	07/30/07 05:44	jkg	
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	07/30/07 05:44	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	07/30/07 05:44	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/30/07 05:44	jkg	
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	4	EPA 8260B	07/30/07 05:44	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**

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Description:	MW-9RR	**Lab Sample ID:**	C709709-03	**Received:**	07/20/07 17:00
Matrix:	Ground Water	**Sampled:**	07/19/07 14:25	**Work Order:**	C709709
Project:	Iredell Co. C&D LF	**Sampled By:**	J.P. Fohl		

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**
4-Bromofluorobenzene	*41*	*1*	*50.0*	*83 %*	*67-125*	*7G29004*	*EPA 8260B*	*07/30/07 05:44*	*jkg*	
Dibromofluoromethane	*43*	*1*	*50.0*	*86 %*	*69-111*	*7G29004*	*EPA 8260B*	*07/30/07 05:44*	*jkg*	
Toluene-d8	*48*	*1*	*50.0*	*95 %*	*85-120*	*7G29004*	*EPA 8260B*	*07/30/07 05:44*	*jkg*	

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Description: MW-9RR
Matrix: Ground Water
Project: Iredell Co. C&D LF

Lab Sample ID: C709709-03
Sampled: 07/19/07 14:25
Sampled By: J.P. Fohl

Received: 07/20/07 17:00
Work Order: C709709

Metals by EPA 6000/7000 Series Methods

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] *	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	08/02/07 18:12	JFL	
Arsenic [7440-38-2] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:01	JDH	
Barium [7440-39-3] *	**122**		ug/L	1		10.0	100	EPA 6010B	08/01/07 14:01	JDH	
Beryllium [7440-41-7] *	0.70	U	ug/L	1		1.00	1	EPA 6010B	08/01/07 14:01	JDH	
Cadmium [7440-43-9] *	0.50	U	ug/L	1		1.00	1	EPA 6010B	08/01/07 14:01	JDH	
Chromium [7440-47-3] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:01	JDH	
Cobalt [7440-48-4] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:01	JDH	
Copper [7440-50-8] *	0.60	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:01	JDH	
Iron [7439-89-6] *	**4610**		ug/L	1	20	50	300	EPA 6010B	08/01/07 14:01	JDH	
Lead [7439-92-1] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:01	JDH	
Manganese [7439-96-5] *	**507**		ug/L	1	1.4	10.0	50	EPA 6010B	08/01/07 14:01	JDH	
Nickel [7440-02-0] *	2.0	U	ug/L	1		10.0	50	EPA 6010B	08/01/07 14:01	JDH	
Selenium [7782-49-2] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:01	JDH	
Silver [7440-22-4] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:01	JDH	
Thallium [7440-28-0] *	**0.092**	J	ug/L	1	0.036	0.050	5.5	EPA 6020	08/02/07 18:12	JFL	
Vanadium [7440-62-2] *	1.0	U	ug/L	1		10.0	25	EPA 6010B	08/01/07 14:01	JDH	
Zinc [7440-66-6] *	**14.6**		ug/L	1		10.0	10	EPA 6010B	08/01/07 14:01	JDH	

Classical Chemistry Parameters

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Chloride [16887-00-6] *	**61**		mg/L	1	2.0	5.0	NE	SM4500-Cl/E	08/18/07 14:42	RWH	Q
Sulfate as SO4 [14808-79-8]	**170**		mg/L	4	20	40	NE	EPA 375.4	08/06/07 20:28	RWH	J-01
Total Alkalinity [NA] *	**61**		mg/L	1	5.2	15	NE	EPA 310.2	08/01/07 08:35	AMH	
Total Dissolved Solids [NA] *	**370**		mg/L	1	10	10	NE	EPA 160.1	08/01/07 14:00	JOC	

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Description:	MW-9RR	**Lab Sample ID:**	C709709-03	**Received:**	07/20/07 17:00
Matrix:	Ground Water	**Sampled:**	07/19/07 14:25	**Work Order:**	C709709
Project:	Iredell Co. C&D LF	**Sampled By:**	J.P. Fohl		

Metals by EPA 6000/7000 Series Methods

** - ENCO Jacksonville certified analyte [NC 442]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] *	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	07/27/07 13:14	HG	U

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Description: MW-9R
Matrix: Ground Water
Project: Iredell Co. C&D LF

Lab Sample ID: C709709-04
Sampled: 07/19/07 15:00
Sampled By: J.P. Fohl

Received: 07/20/07 17:00
Work Order: C709709

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	07/30/07 06:11	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	07/30/07 06:11	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/30/07 06:11	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/30/07 06:11	jkg	
1,1-Dichloroethane [75-34-3] *	0.090	U	ug/L	1	0.090	1.0	5	EPA 8260B	07/30/07 06:11	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	07/30/07 06:11	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	07/30/07 06:11	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	07/30/07 06:11	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	07/30/07 06:11	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	07/30/07 06:11	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/30/07 06:11	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/30/07 06:11	jkg	
1,4-Dichlorobenzene [106-46-7] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/30/07 06:11	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	07/30/07 06:11	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	07/30/07 06:11	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	07/30/07 06:11	jkg	
Acetone [67-64-1] *	0.90	U	ug/L	1	0.90	5.0	100	EPA 8260B	07/30/07 06:11	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	07/30/07 06:11	jkg	
Benzene [71-43-2] *	**1.4**		ug/L	1	0.12	1.0	1	EPA 8260B	07/30/07 06:11	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	07/30/07 06:11	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	0.40	1	EPA 8260B	07/30/07 06:11	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	07/30/07 06:11	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	07/30/07 06:11	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	07/30/07 06:11	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/07 06:11	jkg	
Chlorobenzene [108-90-7] *	0.16	U	ug/L	1	0.16	1.0	3	EPA 8260B	07/30/07 06:11	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	07/30/07 06:11	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	07/30/07 06:11	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/30/07 06:11	jkg	
cis-1,2-Dichloroethene [156-59-2] *	**6.6**		ug/L	1	0.14	1.0	5	EPA 8260B	07/30/07 06:11	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	0.20	1	EPA 8260B	07/30/07 06:11	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/30/07 06:11	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	07/30/07 06:11	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	07/30/07 06:11	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	07/30/07 06:11	jkg	
Methylene chloride [75-09-2] *	0.088	U	ug/L	1	0.088	2.0	1	EPA 8260B	07/30/07 06:11	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	07/30/07 06:11	jkg	
Tetrachloroethene [127-18-4] *	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	07/30/07 06:11	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/30/07 06:11	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	07/30/07 06:11	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	0.20	1	EPA 8260B	07/30/07 06:11	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	07/30/07 06:11	jkg	
Trichloroethene [79-01-6] *	**1.6**		ug/L	1	0.23	1.0	1	EPA 8260B	07/30/07 06:11	jkg	
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	07/30/07 06:11	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	07/30/07 06:11	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/30/07 06:11	jkg	
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	4	EPA 8260B	07/30/07 06:11	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**

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Description:	MW-9R	**Lab Sample ID:**	C709709-04	**Received:**	07/20/07 17:00
Matrix:	Ground Water	**Sampled:**	07/19/07 15:00	**Work Order:**	C709709
Project:	Iredell Co. C&D LF	**Sampled By:**	J.P. Fohl		

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**
4-Bromofluorobenzene	*41*	*1*	*50.0*	*83 %*	*67-125*	*7G29004*	*EPA 8260B*	*07/30/07 06:11*	*jkg*	
Dibromofluoromethane	*45*	*1*	*50.0*	*90 %*	*69-111*	*7G29004*	*EPA 8260B*	*07/30/07 06:11*	*jkg*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*85-120*	*7G29004*	*EPA 8260B*	*07/30/07 06:11*	*jkg*	

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Description: MW-9R
Matrix: Ground Water
Project: Iredell Co. C&D LF

Lab Sample ID: C709709-04
Sampled: 07/19/07 15:00
Sampled By: J.P. Fohl

Received: 07/20/07 17:00
Work Order: C709709

Metals by EPA 6000/7000 Series Methods

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] *	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	08/02/07 18:15	JFL	
Arsenic [7440-38-2] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:22	JDH	
Barium [7440-39-3] *	**340**		ug/L	1		10.0	100	EPA 6010B	08/01/07 14:22	JDH	
Beryllium [7440-41-7] *	0.70	U	ug/L	1		1.00	1	EPA 6010B	08/01/07 14:22	JDH	
Cadmium [7440-43-9] *	0.50	U	ug/L	1		1.00	1	EPA 6010B	08/01/07 14:22	JDH	
Chromium [7440-47-3] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:22	JDH	
Cobalt [7440-48-4] *	**14.7**		ug/L	1		10.0	10	EPA 6010B	08/01/07 14:22	JDH	
Copper [7440-50-8] *	0.60	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:22	JDH	
Iron [7439-89-6] *	**295**	J	ug/L	1	20	50	300	EPA 6010B	08/01/07 14:22	JDH	
Lead [7439-92-1] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:22	JDH	
Manganese [7439-96-5] *	**4380**		ug/L	1	1.4	10.0	50	EPA 6010B	08/01/07 14:22	JDH	
Nickel [7440-02-0] *	2.0	U	ug/L	1		10.0	50	EPA 6010B	08/01/07 14:22	JDH	
Selenium [7782-49-2] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:22	JDH	
Silver [7440-22-4] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:22	JDH	
Thallium [7440-28-0] *	**0.210**	J	ug/L	1	0.036	0.050	5.5	EPA 6020	08/02/07 18:15	JFL	
Vanadium [7440-62-2] *	1.0	U	ug/L	1		10.0	25	EPA 6010B	08/01/07 14:22	JDH	
Zinc [7440-66-6] *	1.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:22	JDH	

Classical Chemistry Parameters

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Chloride [16887-00-6] *	**59**		mg/L	1	2.0	5.0	NE	SM4500-Cl/E	08/18/07 14:43	RWH	Q
Sulfate as SO4 [14808-79-8]	**22**		mg/L	1	5.0	10	NE	EPA 375.4	08/06/07 19:02	RWH	
Total Alkalinity [NA] *	**180**		mg/L	1	5.2	15	NE	EPA 310.2	08/01/07 08:36	AMH	
Total Dissolved Solids [NA] *	**320**		mg/L	1	10	10	NE	EPA 160.1	08/01/07 14:00	JOC	

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Description:	MW-9R	**Lab Sample ID:**	C709709-04	**Received:**	07/20/07 17:00
Matrix:	Ground Water	**Sampled:**	07/19/07 15:00	**Work Order:**	C709709
Project:	Iredell Co. C&D LF	**Sampled By:**	J.P. Fohl		

Metals by EPA 6000/7000 Series Methods

** - ENCO Jacksonville certified analyte [NC 442]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] *	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	07/27/07 13:16	HG	U

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Description: SW-3
Matrix: Ground Water
Project: Iredell Co. C&D LF

Lab Sample ID: C709709-05
Sampled: 07/19/07 15:15
Sampled By: J.P. Fohl

Received: 07/20/07 17:00
Work Order: C709709

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	07/30/07 06:37	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	07/30/07 06:37	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/30/07 06:37	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/30/07 06:37	jkg	
1,1-Dichloroethane [75-34-3] *	0.090	U	ug/L	1	0.090	1.0	5	EPA 8260B	07/30/07 06:37	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	07/30/07 06:37	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	07/30/07 06:37	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	07/30/07 06:37	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	07/30/07 06:37	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	07/30/07 06:37	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/30/07 06:37	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/30/07 06:37	jkg	
1,4-Dichlorobenzene [106-46-7] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/30/07 06:37	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	07/30/07 06:37	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	07/30/07 06:37	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	07/30/07 06:37	jkg	
Acetone [67-64-1] *	0.90	U	ug/L	1	0.90	5.0	100	EPA 8260B	07/30/07 06:37	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	07/30/07 06:37	jkg	
Benzene [71-43-2] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	07/30/07 06:37	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	07/30/07 06:37	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	0.40	1	EPA 8260B	07/30/07 06:37	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	07/30/07 06:37	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	07/30/07 06:37	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	07/30/07 06:37	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/07 06:37	jkg	
Chlorobenzene [108-90-7] *	0.16	U	ug/L	1	0.16	1.0	3	EPA 8260B	07/30/07 06:37	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	07/30/07 06:37	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	07/30/07 06:37	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/30/07 06:37	jkg	
cis-1,2-Dichloroethene [156-59-2] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	07/30/07 06:37	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	0.20	1	EPA 8260B	07/30/07 06:37	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/30/07 06:37	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	07/30/07 06:37	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	07/30/07 06:37	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	07/30/07 06:37	jkg	
Methylene chloride [75-09-2] *	0.088	U	ug/L	1	0.088	2.0	1	EPA 8260B	07/30/07 06:37	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	07/30/07 06:37	jkg	
Tetrachloroethene [127-18-4] *	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	07/30/07 06:37	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/30/07 06:37	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	07/30/07 06:37	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	0.20	1	EPA 8260B	07/30/07 06:37	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	07/30/07 06:37	jkg	
Trichloroethene [79-01-6] *	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	07/30/07 06:37	jkg	
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	07/30/07 06:37	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	07/30/07 06:37	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/30/07 06:37	jkg	
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	4	EPA 8260B	07/30/07 06:37	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**

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Description:	SW-3	**Lab Sample ID:**	C709709-05	**Received:**	07/20/07 17:00
Matrix:	Ground Water	**Sampled:**	07/19/07 15:15	**Work Order:**	C709709
Project:	Iredell Co. C&D LF	**Sampled By:**	J.P. Fohl		

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Surrogates	***Results***	***DF***	***Spike Lvl***	***% Rec***	***% Rec Limits***		***Batch***	***Method***	***Analyzed***	***By***	**Notes**
4-Bromofluorobenzene	*41*	*1*	*50.0*	*83 %*	*67-125*		*7G29004*	*EPA 8260B*	*07/30/07 06:37*	*jkg*	
Dibromofluoromethane	*44*	*1*	*50.0*	*88 %*	*69-111*		*7G29004*	*EPA 8260B*	*07/30/07 06:37*	*jkg*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*85-120*		*7G29004*	*EPA 8260B*	*07/30/07 06:37*	*jkg*	

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Description: SW-3
Matrix: Ground Water
Project: Iredell Co. C&D LF

Lab Sample ID: C709709-05
Sampled: 07/19/07 15:15
Sampled By: J.P. Fohl

Received: 07/20/07 17:00
Work Order: C709709

Metals by EPA 6000/7000 Series Methods

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] *	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	08/02/07 18:17	JFL	
Arsenic [7440-38-2] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:29	JDH	
Barium [7440-39-3] *	**62.2**	J	ug/L	1		10.0	100	EPA 6010B	08/01/07 14:29	JDH	
Beryllium [7440-41-7] *	0.70	U	ug/L	1		1.00	1	EPA 6010B	08/01/07 14:29	JDH	
Cadmium [7440-43-9] *	0.50	U	ug/L	1		1.00	1	EPA 6010B	08/01/07 14:29	JDH	
Chromium [7440-47-3] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:29	JDH	
Cobalt [7440-48-4] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:29	JDH	
Copper [7440-50-8] *	0.60	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:29	JDH	
Iron [7439-89-6] *	**2830**		ug/L	1	20	50	300	EPA 6010B	08/01/07 14:29	JDH	
Lead [7439-92-1] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:29	JDH	
Manganese [7439-96-5] *	**389**		ug/L	1	1.4	10.0	50	EPA 6010B	08/01/07 14:29	JDH	
Nickel [7440-02-0] *	2.0	U	ug/L	1		10.0	50	EPA 6010B	08/01/07 14:29	JDH	
Selenium [7782-49-2] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:29	JDH	
Silver [7440-22-4] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:29	JDH	
Thallium [7440-28-0] *	0.036	U	ug/L	1	0.036	0.050	5.5	EPA 6020	08/02/07 18:17	JFL	
Vanadium [7440-62-2] *	1.0	U	ug/L	1		10.0	25	EPA 6010B	08/01/07 14:29	JDH	
Zinc [7440-66-6] *	**13.1**		ug/L	1		10.0	10	EPA 6010B	08/01/07 14:29	JDH	

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Description:	SW-3	**Lab Sample ID:**	C709709-05	**Received:**	07/20/07 17:00
Matrix:	Ground Water	**Sampled:**	07/19/07 15:15	**Work Order:**	C709709
Project:	Iredell Co. C&D LF	**Sampled By:**	J.P. Fohl		

Metals by EPA 6000/7000 Series Methods

** - ENCO Jacksonville certified analyte [NC 442]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] *	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	07/27/07 13:18	HG	U

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

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Description: MW-22
Matrix: Ground Water
Project: Iredell Co. C&D LF

Lab Sample ID: C709709-06
Sampled: 07/19/07 15:40
Sampled By: J.P. Fohl

Received: 07/20/07 17:00
Work Order: C709709

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	07/30/07 07:03	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	07/30/07 07:03	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/30/07 07:03	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/30/07 07:03	jkg	
1,1-Dichloroethane [75-34-3] *	0.090	U	ug/L	1	0.090	1.0	5	EPA 8260B	07/30/07 07:03	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	07/30/07 07:03	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	07/30/07 07:03	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	07/30/07 07:03	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	07/30/07 07:03	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	07/30/07 07:03	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/30/07 07:03	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/30/07 07:03	jkg	
1,4-Dichlorobenzene [106-46-7] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/30/07 07:03	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	07/30/07 07:03	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	07/30/07 07:03	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	07/30/07 07:03	jkg	
Acetone [67-64-1] *	0.90	U	ug/L	1	0.90	5.0	100	EPA 8260B	07/30/07 07:03	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	07/30/07 07:03	jkg	
Benzene [71-43-2] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	07/30/07 07:03	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	07/30/07 07:03	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	0.40	1	EPA 8260B	07/30/07 07:03	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	07/30/07 07:03	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	07/30/07 07:03	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	07/30/07 07:03	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/07 07:03	jkg	
Chlorobenzene [108-90-7] *	0.16	U	ug/L	1	0.16	1.0	3	EPA 8260B	07/30/07 07:03	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	07/30/07 07:03	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	07/30/07 07:03	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/30/07 07:03	jkg	
cis-1,2-Dichloroethene [156-59-2] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	07/30/07 07:03	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	0.20	1	EPA 8260B	07/30/07 07:03	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/30/07 07:03	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	07/30/07 07:03	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	07/30/07 07:03	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	07/30/07 07:03	jkg	
Methylene chloride [75-09-2] *	0.088	U	ug/L	1	0.088	2.0	1	EPA 8260B	07/30/07 07:03	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	07/30/07 07:03	jkg	
Tetrachloroethene [127-18-4] *	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	07/30/07 07:03	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/30/07 07:03	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	07/30/07 07:03	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	0.20	1	EPA 8260B	07/30/07 07:03	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	07/30/07 07:03	jkg	
Trichloroethene [79-01-6] *	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	07/30/07 07:03	jkg	
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	07/30/07 07:03	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	07/30/07 07:03	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/30/07 07:03	jkg	
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	4	EPA 8260B	07/30/07 07:03	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**

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Description:	MW-22	**Lab Sample ID:**	C709709-06	**Received:**	07/20/07 17:00
Matrix:	Ground Water	**Sampled:**	07/19/07 15:40	**Work Order:**	C709709
Project:	Iredell Co. C&D LF	**Sampled By:**	J.P. Fohl		

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**
4-Bromofluorobenzene	*40*	*1*	*50.0*	*80 %*	*67-125*	*7G29004*	*EPA 8260B*	*07/30/07 07:03*	*jkg*	
Dibromofluoromethane	*44*	*1*	*50.0*	*88 %*	*69-111*	*7G29004*	*EPA 8260B*	*07/30/07 07:03*	*jkg*	
Toluene-d8	*47*	*1*	*50.0*	*95 %*	*85-120*	*7G29004*	*EPA 8260B*	*07/30/07 07:03*	*jkg*	

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Description: MW-22
Matrix: Ground Water
Project: Iredell Co. C&D LF

Lab Sample ID: C709709-06
Sampled: 07/19/07 15:40
Sampled By: J.P. Fohl

Received: 07/20/07 17:00
Work Order: C709709

Metals by EPA 6000/7000 Series Methods

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] *	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	08/02/07 18:25	JFL	
Arsenic [7440-38-2] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:36	JDH	
Barium [7440-39-3] *	**104**		ug/L	1		10.0	100	EPA 6010B	08/01/07 14:36	JDH	
Beryllium [7440-41-7] *	0.70	U	ug/L	1		1.00	1	EPA 6010B	08/01/07 14:36	JDH	
Cadmium [7440-43-9] *	0.50	U	ug/L	1		1.00	1	EPA 6010B	08/01/07 14:36	JDH	
Chromium [7440-47-3] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:36	JDH	
Cobalt [7440-48-4] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:36	JDH	
Copper [7440-50-8] *	0.60	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:36	JDH	
Iron [7439-89-6] *	**323**		ug/L	1	20	50	300	EPA 6010B	08/01/07 14:36	JDH	
Lead [7439-92-1] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:36	JDH	
Manganese [7439-96-5] *	**7.0**	J	ug/L	1	1.4	10.0	50	EPA 6010B	08/01/07 14:36	JDH	
Nickel [7440-02-0] *	2.0	U	ug/L	1		10.0	50	EPA 6010B	08/01/07 14:36	JDH	
Selenium [7782-49-2] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:36	JDH	
Silver [7440-22-4] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:36	JDH	
Thallium [7440-28-0] *	0.036	U	ug/L	1	0.036	0.050	5.5	EPA 6020	08/02/07 18:25	JFL	
Vanadium [7440-62-2] *	1.0	U	ug/L	1		10.0	25	EPA 6010B	08/01/07 14:36	JDH	
Zinc [7440-66-6] *	**11.5**		ug/L	1		10.0	10	EPA 6010B	08/01/07 14:36	JDH	

Classical Chemistry Parameters

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Chloride [16887-00-6] *	2.0	U	mg/L	1	2.0	5.0	NE	SM4500-Cl/E	08/18/07 14:44	RWH	Q
Sulfate as SO4 [14808-79-8]	5.0	U	mg/L	1	5.0	10	NE	EPA 375.4	08/06/07 19:06	RWH	
Total Alkalinity [NA] *	**26**		mg/L	1	5.2	15	NE	EPA 310.2	08/01/07 08:37	AMH	
Total Dissolved Solids [NA] *	**34**		mg/L	1	10	10	NE	EPA 160.1	08/01/07 14:00	JOC	

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Description:	MW-22	**Lab Sample ID:**	C709709-06	**Received:**	07/20/07 17:00
Matrix:	Ground Water	**Sampled:**	07/19/07 15:40	**Work Order:**	C709709
Project:	Iredell Co. C&D LF	**Sampled By:**	J.P. Fohl		

Metals by EPA 6000/7000 Series Methods

** - ENCO Jacksonville certified analyte [NC 442]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] *	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	07/27/07 13:21	HG	U

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Description: MW-23
Matrix: Ground Water
Project: Iredell Co. C&D LF

Lab Sample ID: C709709-07
Sampled: 07/19/07 16:15
Sampled By: J.P. Fohl

Received: 07/20/07 17:00
Work Order: C709709

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	07/30/07 07:30	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	07/30/07 07:30	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/30/07 07:30	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/30/07 07:30	jkg	
1,1-Dichloroethane [75-34-3] *	0.090	U	ug/L	1	0.090	1.0	5	EPA 8260B	07/30/07 07:30	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	07/30/07 07:30	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	07/30/07 07:30	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	07/30/07 07:30	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	07/30/07 07:30	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	07/30/07 07:30	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/30/07 07:30	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/30/07 07:30	jkg	
1,4-Dichlorobenzene [106-46-7] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/30/07 07:30	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	07/30/07 07:30	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	07/30/07 07:30	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	07/30/07 07:30	jkg	
Acetone [67-64-1] *	0.90	U	ug/L	1	0.90	5.0	100	EPA 8260B	07/30/07 07:30	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	07/30/07 07:30	jkg	
Benzene [71-43-2] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	07/30/07 07:30	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	07/30/07 07:30	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	0.40	1	EPA 8260B	07/30/07 07:30	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	07/30/07 07:30	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	07/30/07 07:30	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	07/30/07 07:30	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/07 07:30	jkg	
Chlorobenzene [108-90-7] *	0.16	U	ug/L	1	0.16	1.0	3	EPA 8260B	07/30/07 07:30	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	07/30/07 07:30	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	07/30/07 07:30	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/30/07 07:30	jkg	
cis-1,2-Dichloroethene [156-59-2] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	07/30/07 07:30	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	0.20	1	EPA 8260B	07/30/07 07:30	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/30/07 07:30	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	07/30/07 07:30	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	07/30/07 07:30	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	07/30/07 07:30	jkg	
Methylene chloride [75-09-2] *	0.088	U	ug/L	1	0.088	2.0	1	EPA 8260B	07/30/07 07:30	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	07/30/07 07:30	jkg	
Tetrachloroethene [127-18-4] *	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	07/30/07 07:30	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/30/07 07:30	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	07/30/07 07:30	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	0.20	1	EPA 8260B	07/30/07 07:30	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	07/30/07 07:30	jkg	
Trichloroethene [79-01-6] *	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	07/30/07 07:30	jkg	
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	07/30/07 07:30	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	07/30/07 07:30	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/30/07 07:30	jkg	
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	4	EPA 8260B	07/30/07 07:30	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**

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Description:	MW-23	**Lab Sample ID:**	C709709-07	**Received:**	07/20/07 17:00
Matrix:	Ground Water	**Sampled:**	07/19/07 16:15	**Work Order:**	C709709
Project:	Iredell Co. C&D LF	**Sampled By:**	J.P. Fohl		

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**
4-Bromofluorobenzene	*43*	*1*	*50.0*	*85 %*	*67-125*	*7G29004*	*EPA 8260B*	*07/30/07 07:30*	*jkg*	
Dibromofluoromethane	*45*	*1*	*50.0*	*90 %*	*69-111*	*7G29004*	*EPA 8260B*	*07/30/07 07:30*	*jkg*	
Toluene-d8	*50*	*1*	*50.0*	*100 %*	*85-120*	*7G29004*	*EPA 8260B*	*07/30/07 07:30*	*jkg*	

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Description: MW-23
Matrix: Ground Water
Project: Iredell Co. C&D LF

Lab Sample ID: C709709-07
Sampled: 07/19/07 16:15
Sampled By: J.P. Fohl

Received: 07/20/07 17:00
Work Order: C709709

Metals by EPA 6000/7000 Series Methods

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] *	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	08/02/07 18:27	JFL	
Arsenic [7440-38-2] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:43	JDH	
Barium [7440-39-3] *	**252**		ug/L	1		10.0	100	EPA 6010B	08/01/07 14:43	JDH	
Beryllium [7440-41-7] *	0.70	U	ug/L	1		1.00	1	EPA 6010B	08/01/07 14:43	JDH	
Cadmium [7440-43-9] *	0.50	U	ug/L	1		1.00	1	EPA 6010B	08/01/07 14:43	JDH	
Chromium [7440-47-3] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:43	JDH	
Cobalt [7440-48-4] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:43	JDH	
Copper [7440-50-8] *	0.60	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:43	JDH	
Iron [7439-89-6] *	**923**		ug/L	1	20	50	300	EPA 6010B	08/01/07 14:43	JDH	
Lead [7439-92-1] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:43	JDH	
Manganese [7439-96-5] *	**83.1**		ug/L	1	1.4	10.0	50	EPA 6010B	08/01/07 14:43	JDH	
Nickel [7440-02-0] *	2.0	U	ug/L	1		10.0	50	EPA 6010B	08/01/07 14:43	JDH	
Selenium [7782-49-2] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:43	JDH	
Silver [7440-22-4] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:43	JDH	
Thallium [7440-28-0] *	0.036	U	ug/L	1	0.036	0.050	5.5	EPA 6020	08/02/07 18:27	JFL	
Vanadium [7440-62-2] *	1.0	U	ug/L	1		10.0	25	EPA 6010B	08/01/07 14:43	JDH	
Zinc [7440-66-6] *	1.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:43	JDH	

Classical Chemistry Parameters

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Chloride [16887-00-6] *	**17**		mg/L	1	2.0	5.0	NE	SM4500-Cl/E	08/18/07 14:45	RWH	Q
Sulfate as SO4 [14808-79-8]	**90**		mg/L	4	20	40	NE	EPA 375.4	08/06/07 20:33	RWH	
Total Alkalinity [NA] *	**29**		mg/L	1	5.2	15	NE	EPA 310.2	08/01/07 08:38	AMH	
Total Dissolved Solids [NA] *	**180**		mg/L	1	10	10	NE	EPA 160.1	08/01/07 14:00	JOC	

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Description:	MW-23	**Lab Sample ID:**	C709709-07	**Received:**	07/20/07 17:00
Matrix:	Ground Water	**Sampled:**	07/19/07 16:15	**Work Order:**	C709709
Project:	Iredell Co. C&D LF	**Sampled By:**	J.P. Fohl		

Metals by EPA 6000/7000 Series Methods

** - ENCO Jacksonville certified analyte [NC 442]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] *	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	07/27/07 13:23	HG	U

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Description: MW-24D
Matrix: Ground Water
Project: Iredell Co. C&D LF

Lab Sample ID: C709709-08
Sampled: 07/19/07 16:50
Sampled By: J.P. Fohl

Received: 07/20/07 17:00
Work Order: C709709

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	07/30/07 07:56	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	07/30/07 07:56	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/30/07 07:56	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/30/07 07:56	jkg	
1,1-Dichloroethane [75-34-3] *	0.090	U	ug/L	1	0.090	1.0	5	EPA 8260B	07/30/07 07:56	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	07/30/07 07:56	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	07/30/07 07:56	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	07/30/07 07:56	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	07/30/07 07:56	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	07/30/07 07:56	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/30/07 07:56	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/30/07 07:56	jkg	
1,4-Dichlorobenzene [106-46-7] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/30/07 07:56	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	07/30/07 07:56	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	07/30/07 07:56	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	07/30/07 07:56	jkg	
Acetone [67-64-1] *	0.90	U	ug/L	1	0.90	5.0	100	EPA 8260B	07/30/07 07:56	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	07/30/07 07:56	jkg	
Benzene [71-43-2] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	07/30/07 07:56	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	07/30/07 07:56	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	0.40	1	EPA 8260B	07/30/07 07:56	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	07/30/07 07:56	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	07/30/07 07:56	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	07/30/07 07:56	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/07 07:56	jkg	
Chlorobenzene [108-90-7] *	0.16	U	ug/L	1	0.16	1.0	3	EPA 8260B	07/30/07 07:56	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	07/30/07 07:56	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	07/30/07 07:56	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/30/07 07:56	jkg	
cis-1,2-Dichloroethene [156-59-2] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	07/30/07 07:56	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	0.20	1	EPA 8260B	07/30/07 07:56	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/30/07 07:56	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	07/30/07 07:56	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	07/30/07 07:56	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	07/30/07 07:56	jkg	
Methylene chloride [75-09-2] *	0.088	U	ug/L	1	0.088	2.0	1	EPA 8260B	07/30/07 07:56	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	07/30/07 07:56	jkg	
Tetrachloroethene [127-18-4] *	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	07/30/07 07:56	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/30/07 07:56	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	07/30/07 07:56	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	0.20	1	EPA 8260B	07/30/07 07:56	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	07/30/07 07:56	jkg	
Trichloroethene [79-01-6] *	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	07/30/07 07:56	jkg	
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	07/30/07 07:56	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	07/30/07 07:56	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/30/07 07:56	jkg	
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	4	EPA 8260B	07/30/07 07:56	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**

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Description:	MW-24D	**Lab Sample ID:**	C709709-08	**Received:**	07/20/07 17:00
Matrix:	Ground Water	**Sampled:**	07/19/07 16:50	**Work Order:**	C709709
Project:	Iredell Co. C&D LF	**Sampled By:**	J.P. Fohl		

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**
4-Bromofluorobenzene	*41*	*1*	*50.0*	*81 %*	*67-125*	*7G29004*	*EPA 8260B*	*07/30/07 07:56*	*jkg*	
Dibromofluoromethane	*45*	*1*	*50.0*	*91 %*	*69-111*	*7G29004*	*EPA 8260B*	*07/30/07 07:56*	*jkg*	
Toluene-d8	*47*	*1*	*50.0*	*95 %*	*85-120*	*7G29004*	*EPA 8260B*	*07/30/07 07:56*	*jkg*	

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Description: MW-24D
Matrix: Ground Water
Project: Iredell Co. C&D LF

Lab Sample ID: C709709-08
Sampled: 07/19/07 16:50
Sampled By: J.P. Fohl

Received: 07/20/07 17:00
Work Order: C709709

Metals by EPA 6000/7000 Series Methods

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] *	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	08/02/07 18:30	JFL	
Arsenic [7440-38-2] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:50	JDH	
Barium [7440-39-3] *	**25.6**	J	ug/L	1		10.0	100	EPA 6010B	08/01/07 14:50	JDH	
Beryllium [7440-41-7] *	0.70	U	ug/L	1		1.00	1	EPA 6010B	08/01/07 14:50	JDH	
Cadmium [7440-43-9] *	**3.00**		ug/L	1		1.00	1	EPA 6010B	08/01/07 14:50	JDH	
Chromium [7440-47-3] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:50	JDH	
Cobalt [7440-48-4] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:50	JDH	
Copper [7440-50-8] *	**11.8**		ug/L	1		10.0	10	EPA 6010B	08/01/07 14:50	JDH	
Iron [7439-89-6] *	**4580**		ug/L	1	20	50	300	EPA 6010B	08/01/07 14:50	JDH	
Lead [7439-92-1] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:50	JDH	
Manganese [7439-96-5] *	**167**		ug/L	1	1.4	10.0	50	EPA 6010B	08/01/07 14:50	JDH	
Nickel [7440-02-0] *	2.0	U	ug/L	1		10.0	50	EPA 6010B	08/01/07 14:50	JDH	
Selenium [7782-49-2] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:50	JDH	
Silver [7440-22-4] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:50	JDH	
Thallium [7440-28-0] *	0.036	U	ug/L	1	0.036	0.050	5.5	EPA 6020	08/02/07 18:30	JFL	
Vanadium [7440-62-2] *	**17.1**	J	ug/L	1		10.0	25	EPA 6010B	08/01/07 14:50	JDH	
Zinc [7440-66-6] *	**22.9**		ug/L	1		10.0	10	EPA 6010B	08/01/07 14:50	JDH	

Classical Chemistry Parameters

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Chloride [16887-00-6] *	**2.4**		mg/L	1	2.0	5.0	NE	SM4500-Cl/E	08/18/07 14:45	RWH	Q
Sulfate as SO4 [14808-79-8]	5.0	U	mg/L	1	5.0	10	NE	EPA 375.4	08/06/07 19:15	RWH	
Total Alkalinity [NA] *	**24**		mg/L	1	5.2	15	NE	EPA 310.2	08/01/07 08:38	AMH	
Total Dissolved Solids [NA] *	**90**		mg/L	1	10	10	NE	EPA 160.1	08/01/07 14:00	JOC	

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Description:	MW-24D	**Lab Sample ID:**	C709709-08	**Received:**	07/20/07 17:00
Matrix:	Ground Water	**Sampled:**	07/19/07 16:50	**Work Order:**	C709709
Project:	Iredell Co. C&D LF	**Sampled By:**	J.P. Fohl		

Metals by EPA 6000/7000 Series Methods

** - ENCO Jacksonville certified analyte [NC 442]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] *	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	07/27/07 13:25	HG	U

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Description: MW-24S
Matrix: Ground Water
Project: Iredell Co. C&D LF

Lab Sample ID: C709709-09
Sampled: 07/19/07 17:25
Sampled By: J.P. Fohl

Received: 07/20/07 17:00
Work Order: C709709

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	07/30/07 08:22	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	07/30/07 08:22	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/30/07 08:22	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/30/07 08:22	jkg	
1,1-Dichloroethane [75-34-3] *	0.090	U	ug/L	1	0.090	1.0	5	EPA 8260B	07/30/07 08:22	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	07/30/07 08:22	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	07/30/07 08:22	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	07/30/07 08:22	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	07/30/07 08:22	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	07/30/07 08:22	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/30/07 08:22	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/30/07 08:22	jkg	
1,4-Dichlorobenzene [106-46-7] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/30/07 08:22	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	07/30/07 08:22	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	07/30/07 08:22	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	07/30/07 08:22	jkg	
Acetone [67-64-1] *	0.90	U	ug/L	1	0.90	5.0	100	EPA 8260B	07/30/07 08:22	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	07/30/07 08:22	jkg	
Benzene [71-43-2] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	07/30/07 08:22	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	07/30/07 08:22	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	0.40	1	EPA 8260B	07/30/07 08:22	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	07/30/07 08:22	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	07/30/07 08:22	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	07/30/07 08:22	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/07 08:22	jkg	
Chlorobenzene [108-90-7] *	0.16	U	ug/L	1	0.16	1.0	3	EPA 8260B	07/30/07 08:22	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	07/30/07 08:22	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	07/30/07 08:22	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/30/07 08:22	jkg	
cis-1,2-Dichloroethene [156-59-2] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	07/30/07 08:22	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	0.20	1	EPA 8260B	07/30/07 08:22	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/30/07 08:22	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	07/30/07 08:22	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	07/30/07 08:22	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	07/30/07 08:22	jkg	
Methylene chloride [75-09-2] *	0.088	U	ug/L	1	0.088	2.0	1	EPA 8260B	07/30/07 08:22	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	07/30/07 08:22	jkg	
Tetrachloroethene [127-18-4] *	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	07/30/07 08:22	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/30/07 08:22	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	07/30/07 08:22	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	0.20	1	EPA 8260B	07/30/07 08:22	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	07/30/07 08:22	jkg	
Trichloroethene [79-01-6] *	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	07/30/07 08:22	jkg	
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	07/30/07 08:22	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	07/30/07 08:22	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/30/07 08:22	jkg	
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	4	EPA 8260B	07/30/07 08:22	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**

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Description:	MW-24S	**Lab Sample ID:**	C709709-09	**Received:**	07/20/07 17:00
Matrix:	Ground Water	**Sampled:**	07/19/07 17:25	**Work Order:**	C709709
Project:	Iredell Co. C&D LF	**Sampled By:**	J.P. Fohl		

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**
4-Bromofluorobenzene	*41*	*1*	*50.0*	*82 %*	*67-125*	*7G29004*	*EPA 8260B*	*07/30/07 08:22*	*jkg*	
Dibromofluoromethane	*47*	*1*	*50.0*	*93 %*	*69-111*	*7G29004*	*EPA 8260B*	*07/30/07 08:22*	*jkg*	
Toluene-d8	*47*	*1*	*50.0*	*95 %*	*85-120*	*7G29004*	*EPA 8260B*	*07/30/07 08:22*	*jkg*	

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Description: MW-24S
Matrix: Ground Water
Project: Iredell Co. C&D LF

Lab Sample ID: C709709-09
Sampled: 07/19/07 17:25
Sampled By: J.P. Fohl

Received: 07/20/07 17:00
Work Order: C709709

Metals by EPA 6000/7000 Series Methods

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] *	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	08/02/07 18:32	JFL	
Arsenic [7440-38-2] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:57	JDH	
Barium [7440-39-3] *	**93.4**	J	ug/L	1		10.0	100	EPA 6010B	08/01/07 14:57	JDH	
Beryllium [7440-41-7] *	0.70	U	ug/L	1		1.00	1	EPA 6010B	08/01/07 14:57	JDH	
Cadmium [7440-43-9] *	0.50	U	ug/L	1		1.00	1	EPA 6010B	08/01/07 14:57	JDH	
Chromium [7440-47-3] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:57	JDH	
Cobalt [7440-48-4] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:57	JDH	
Copper [7440-50-8] *	0.60	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:57	JDH	
Iron [7439-89-6] *	**9460**		ug/L	1	20	50	300	EPA 6010B	08/01/07 14:57	JDH	
Lead [7439-92-1] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:57	JDH	
Manganese [7439-96-5] *	**260**		ug/L	1	1.4	10.0	50	EPA 6010B	08/01/07 14:57	JDH	
Nickel [7440-02-0] *	2.0	U	ug/L	1		10.0	50	EPA 6010B	08/01/07 14:57	JDH	
Selenium [7782-49-2] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:57	JDH	
Silver [7440-22-4] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 14:57	JDH	
Thallium [7440-28-0] *	0.036	U	ug/L	1	0.036	0.050	5.5	EPA 6020	08/02/07 18:32	JFL	
Vanadium [7440-62-2] *	**18.8**	J	ug/L	1		10.0	25	EPA 6010B	08/01/07 14:57	JDH	
Zinc [7440-66-6] *	**31.8**		ug/L	1		10.0	10	EPA 6010B	08/01/07 14:57	JDH	

Classical Chemistry Parameters

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Chloride [16887-00-6] *	**4.9**		mg/L	1	2.0	5.0	NE	SM4500-Cl/E	08/18/07 14:46	RWH	Q
Sulfate as SO4 [14808-79-8]	5.0	U	mg/L	1	5.0	10	NE	EPA 375.4	08/06/07 19:20	RWH	
Total Alkalinity [NA] *	**16**		mg/L	1	5.2	15	NE	EPA 310.2	08/01/07 08:41	AMH	
Total Dissolved Solids [NA] *	**86**		mg/L	1	10	10	NE	EPA 160.1	08/01/07 14:00	JOC	

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Description:	MW-24S	**Lab Sample ID:**	C709709-09	**Received:**	07/20/07 17:00
Matrix:	Ground Water	**Sampled:**	07/19/07 17:25	**Work Order:**	C709709
Project:	Iredell Co. C&D LF	**Sampled By:**	J.P. Fohl		

Metals by EPA 6000/7000 Series Methods

** - ENCO Jacksonville certified analyte [NC 442]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] *	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	07/27/07 13:27	HG	U

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Description: MW-26D
Matrix: Ground Water
Project: Iredell Co. C&D LF

Lab Sample ID: C709709-10
Sampled: 07/20/07 06:25
Sampled By: J.P. Fohl

Received: 07/20/07 17:00
Work Order: C709709

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	07/29/07 21:51	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	07/29/07 21:51	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/29/07 21:51	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/29/07 21:51	jkg	
1,1-Dichloroethane [75-34-3] *	0.090	U	ug/L	1	0.090	1.0	5	EPA 8260B	07/29/07 21:51	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	07/29/07 21:51	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	07/29/07 21:51	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	07/29/07 21:51	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	07/29/07 21:51	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	07/29/07 21:51	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/29/07 21:51	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/29/07 21:51	jkg	
1,4-Dichlorobenzene [106-46-7] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/29/07 21:51	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	07/29/07 21:51	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	07/29/07 21:51	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	07/29/07 21:51	jkg	
Acetone [67-64-1] *	0.90	U	ug/L	1	0.90	5.0	100	EPA 8260B	07/29/07 21:51	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	07/29/07 21:51	jkg	
Benzene [71-43-2] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	07/29/07 21:51	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	07/29/07 21:51	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	0.40	1	EPA 8260B	07/29/07 21:51	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	07/29/07 21:51	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	07/29/07 21:51	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	07/29/07 21:51	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/29/07 21:51	jkg	
Chlorobenzene [108-90-7] *	0.16	U	ug/L	1	0.16	1.0	3	EPA 8260B	07/29/07 21:51	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	07/29/07 21:51	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	07/29/07 21:51	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/29/07 21:51	jkg	
cis-1,2-Dichloroethene [156-59-2] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	07/29/07 21:51	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	0.20	1	EPA 8260B	07/29/07 21:51	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/29/07 21:51	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	07/29/07 21:51	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	07/29/07 21:51	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	07/29/07 21:51	jkg	
Methylene chloride [75-09-2] *	0.088	U	ug/L	1	0.088	2.0	1	EPA 8260B	07/29/07 21:51	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	07/29/07 21:51	jkg	
Tetrachloroethene [127-18-4] *	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	07/29/07 21:51	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/29/07 21:51	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	07/29/07 21:51	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	0.20	1	EPA 8260B	07/29/07 21:51	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	07/29/07 21:51	jkg	
Trichloroethene [79-01-6] *	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	07/29/07 21:51	jkg	
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	07/29/07 21:51	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	07/29/07 21:51	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/29/07 21:51	jkg	
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	4	EPA 8260B	07/29/07 21:51	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**

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Description:	MW-26D	**Lab Sample ID:**	C709709-10	**Received:**	07/20/07 17:00
Matrix:	Ground Water	**Sampled:**	07/20/07 06:25	**Work Order:**	C709709
Project:	Iredell Co. C&D LF	**Sampled By:**	J.P. Fohl		

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**
4-Bromofluorobenzene	*43*	*1*	*50.0*	*86 %*	*67-125*	*7G29001*	*EPA 8260B*	*07/29/07 21:51*	*jkg*	
Dibromofluoromethane	*45*	*1*	*50.0*	*90 %*	*69-111*	*7G29001*	*EPA 8260B*	*07/29/07 21:51*	*jkg*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*85-120*	*7G29001*	*EPA 8260B*	*07/29/07 21:51*	*jkg*	

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Description: MW-26D
Matrix: Ground Water
Project: Iredell Co. C&D LF

Lab Sample ID: C709709-10
Sampled: 07/20/07 06:25
Sampled By: J.P. Fohl

Received: 07/20/07 17:00
Work Order: C709709

Metals by EPA 6000/7000 Series Methods

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] *	**0.75**	J	ug/L	1	0.68	2.00	6	EPA 6020	08/02/07 18:34	JFL	
Arsenic [7440-38-2] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 15:04	JDH	
Barium [7440-39-3] *	**61.2**	J	ug/L	1		10.0	100	EPA 6010B	08/01/07 15:04	JDH	
Beryllium [7440-41-7] *	0.70	U	ug/L	1		1.00	1	EPA 6010B	08/01/07 15:04	JDH	
Cadmium [7440-43-9] *	**1.10**		ug/L	1		1.00	1	EPA 6010B	08/01/07 15:04	JDH	
Chromium [7440-47-3] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 15:04	JDH	
Cobalt [7440-48-4] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 15:04	JDH	
Copper [7440-50-8] *	**13.0**		ug/L	1		10.0	10	EPA 6010B	08/01/07 15:04	JDH	
Iron [7439-89-6] *	**6590**		ug/L	1	20	50	300	EPA 6010B	08/01/07 15:04	JDH	
Lead [7439-92-1] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 15:04	JDH	
Manganese [7439-96-5] *	**202**		ug/L	1	1.4	10.0	50	EPA 6010B	08/01/07 15:04	JDH	
Nickel [7440-02-0] *	2.0	U	ug/L	1		10.0	50	EPA 6010B	08/01/07 15:04	JDH	
Selenium [7782-49-2] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 15:04	JDH	
Silver [7440-22-4] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 15:04	JDH	
Thallium [7440-28-0] *	0.036	U	ug/L	1	0.036	0.050	5.5	EPA 6020	08/02/07 18:34	JFL	
Vanadium [7440-62-2] *	**34.6**		ug/L	1		10.0	25	EPA 6010B	08/01/07 15:04	JDH	
Zinc [7440-66-6] *	**37.4**		ug/L	1		10.0	10	EPA 6010B	08/01/07 15:04	JDH	

Classical Chemistry Parameters

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Chloride [16887-00-6] *	2.0	U	mg/L	1	2.0	5.0	NE	SM4500-Cl/E	08/18/07 14:46	RWH	Q
Sulfate as SO4 [14808-79-8]	**5.8**		mg/L	1	5.0	10	NE	EPA 375.4	08/06/07 19:34	RWH	
Total Alkalinity [NA] *	**75**		mg/L	1	5.2	15	NE	EPA 310.2	08/01/07 08:42	AMH	
Total Dissolved Solids [NA] *	**98**		mg/L	1	10	10	NE	EPA 160.1	08/01/07 14:00	JOC	

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Description:	MW-26D	**Lab Sample ID:**	C709709-10	**Received:**	07/20/07 17:00
Matrix:	Ground Water	**Sampled:**	07/20/07 06:25	**Work Order:**	C709709
Project:	Iredell Co. C&D LF	**Sampled By:**	J.P. Fohl		

Metals by EPA 6000/7000 Series Methods

** - ENCO Jacksonville certified analyte [NC 442]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] *	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	07/27/07 13:29	HG	U

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

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Description: MW-26S
Matrix: Ground Water
Project: Iredell Co. C&D LF

Lab Sample ID: C709709-11
Sampled: 07/20/07 06:55
Sampled By: J.P. Fohl

Received: 07/20/07 17:00
Work Order: C709709

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	07/29/07 22:17	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	07/29/07 22:17	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/29/07 22:17	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/29/07 22:17	jkg	
1,1-Dichloroethane [75-34-3] *	0.090	U	ug/L	1	0.090	1.0	5	EPA 8260B	07/29/07 22:17	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	07/29/07 22:17	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	07/29/07 22:17	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	07/29/07 22:17	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	07/29/07 22:17	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	07/29/07 22:17	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/29/07 22:17	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/29/07 22:17	jkg	
1,4-Dichlorobenzene [106-46-7] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/29/07 22:17	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	07/29/07 22:17	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	07/29/07 22:17	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	07/29/07 22:17	jkg	
Acetone [67-64-1] *	0.90	U	ug/L	1	0.90	5.0	100	EPA 8260B	07/29/07 22:17	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	07/29/07 22:17	jkg	
Benzene [71-43-2] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	07/29/07 22:17	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	07/29/07 22:17	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	0.40	1	EPA 8260B	07/29/07 22:17	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	07/29/07 22:17	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	07/29/07 22:17	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	07/29/07 22:17	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/29/07 22:17	jkg	
Chlorobenzene [108-90-7] *	0.16	U	ug/L	1	0.16	1.0	3	EPA 8260B	07/29/07 22:17	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	07/29/07 22:17	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	07/29/07 22:17	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/29/07 22:17	jkg	
cis-1,2-Dichloroethene [156-59-2] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	07/29/07 22:17	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	0.20	1	EPA 8260B	07/29/07 22:17	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/29/07 22:17	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	07/29/07 22:17	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	07/29/07 22:17	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	07/29/07 22:17	jkg	
Methylene chloride [75-09-2] *	0.088	U	ug/L	1	0.088	2.0	1	EPA 8260B	07/29/07 22:17	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	07/29/07 22:17	jkg	
Tetrachloroethene [127-18-4] *	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	07/29/07 22:17	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/29/07 22:17	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	07/29/07 22:17	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	0.20	1	EPA 8260B	07/29/07 22:17	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	07/29/07 22:17	jkg	
Trichloroethene [79-01-6] *	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	07/29/07 22:17	jkg	
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	07/29/07 22:17	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	07/29/07 22:17	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/29/07 22:17	jkg	
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	4	EPA 8260B	07/29/07 22:17	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**

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Description:	MW-26S	**Lab Sample ID:**	C709709-11	**Received:**	07/20/07 17:00
Matrix:	Ground Water	**Sampled:**	07/20/07 06:55	**Work Order:**	C709709
Project:	Iredell Co. C&D LF	**Sampled By:**	J.P. Fohl		

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**
4-Bromofluorobenzene	*42*	*1*	*50.0*	*84 %*	*67-125*	*7G29001*	*EPA 8260B*	*07/29/07 22:17*	*jkg*	
Dibromofluoromethane	*46*	*1*	*50.0*	*91 %*	*69-111*	*7G29001*	*EPA 8260B*	*07/29/07 22:17*	*jkg*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*85-120*	*7G29001*	*EPA 8260B*	*07/29/07 22:17*	*jkg*	

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Description: MW-26S
Matrix: Ground Water
Project: Iredell Co. C&D LF

Lab Sample ID: C709709-11
Sampled: 07/20/07 06:55
Sampled By: J.P. Fohl

Received: 07/20/07 17:00
Work Order: C709709

Metals by EPA 6000/7000 Series Methods

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] *	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	08/02/07 18:37	JFL	
Arsenic [7440-38-2] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 15:11	JDH	
Barium [7440-39-3] *	**104**		ug/L	1		10.0	100	EPA 6010B	08/01/07 15:11	JDH	
Beryllium [7440-41-7] *	0.70	U	ug/L	1		1.00	1	EPA 6010B	08/01/07 15:11	JDH	
Cadmium [7440-43-9] *	0.50	U	ug/L	1		1.00	1	EPA 6010B	08/01/07 15:11	JDH	
Chromium [7440-47-3] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 15:11	JDH	
Cobalt [7440-48-4] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 15:11	JDH	
Copper [7440-50-8] *	0.60	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 15:11	JDH	
Iron [7439-89-6] *	**1710**		ug/L	1	20	50	300	EPA 6010B	08/01/07 15:11	JDH	
Lead [7439-92-1] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 15:11	JDH	
Manganese [7439-96-5] *	**53.1**		ug/L	1	1.4	10.0	50	EPA 6010B	08/01/07 15:11	JDH	
Nickel [7440-02-0] *	2.0	U	ug/L	1		10.0	50	EPA 6010B	08/01/07 15:11	JDH	
Selenium [7782-49-2] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 15:11	JDH	
Silver [7440-22-4] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 15:11	JDH	
Thallium [7440-28-0] *	0.036	U	ug/L	1	0.036	0.050	5.5	EPA 6020	08/02/07 18:37	JFL	
Vanadium [7440-62-2] *	1.0	U	ug/L	1		10.0	25	EPA 6010B	08/01/07 15:11	JDH	
Zinc [7440-66-6] *	1.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 15:11	JDH	

Classical Chemistry Parameters

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Chloride [16887-00-6] *	**3.6**		mg/L	1	2.0	5.0	NE	SM4500-Cl/E	08/18/07 14:47	RWH	Q
Sulfate as SO4 [14808-79-8]	5.0	U	mg/L	1	5.0	10	NE	EPA 375.4	08/06/07 19:39	RWH	
Total Alkalinity [NA] *	**10**		mg/L	1	5.2	15	NE	EPA 310.2	08/01/07 08:43	AMH	
Total Dissolved Solids [NA] *	**74**		mg/L	1	10	10	NE	EPA 160.1	08/01/07 14:00	JOC	

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Description:	MW-26S	**Lab Sample ID:**	C709709-11	**Received:**	07/20/07 17:00
Matrix:	Ground Water	**Sampled:**	07/20/07 06:55	**Work Order:**	C709709
Project:	Iredell Co. C&D LF	**Sampled By:**	J.P. Fohl		

Metals by EPA 6000/7000 Series Methods

** - ENCO Jacksonville certified analyte [NC 442]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] *	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	07/27/07 13:36	HG	U

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Description: MW-25
Matrix: Ground Water
Project: Iredell Co. C&D LF

Lab Sample ID: C709709-12
Sampled: 07/20/07 07:40
Sampled By: J.P. Fohl

Received: 07/20/07 17:00
Work Order: C709709

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	07/29/07 22:44	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	07/29/07 22:44	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/29/07 22:44	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/29/07 22:44	jkg	
1,1-Dichloroethane [75-34-3] *	0.090	U	ug/L	1	0.090	1.0	5	EPA 8260B	07/29/07 22:44	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	07/29/07 22:44	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	07/29/07 22:44	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	07/29/07 22:44	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	07/29/07 22:44	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	07/29/07 22:44	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/29/07 22:44	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/29/07 22:44	jkg	
1,4-Dichlorobenzene [106-46-7] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/29/07 22:44	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	07/29/07 22:44	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	07/29/07 22:44	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	07/29/07 22:44	jkg	
Acetone [67-64-1] *	0.90	U	ug/L	1	0.90	5.0	100	EPA 8260B	07/29/07 22:44	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	07/29/07 22:44	jkg	
Benzene [71-43-2] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	07/29/07 22:44	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	07/29/07 22:44	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	0.40	1	EPA 8260B	07/29/07 22:44	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	07/29/07 22:44	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	07/29/07 22:44	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	07/29/07 22:44	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/29/07 22:44	jkg	
Chlorobenzene [108-90-7] *	0.16	U	ug/L	1	0.16	1.0	3	EPA 8260B	07/29/07 22:44	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	07/29/07 22:44	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	07/29/07 22:44	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/29/07 22:44	jkg	
cis-1,2-Dichloroethene [156-59-2] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	07/29/07 22:44	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	0.20	1	EPA 8260B	07/29/07 22:44	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/29/07 22:44	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	07/29/07 22:44	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	07/29/07 22:44	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	07/29/07 22:44	jkg	
Methylene chloride [75-09-2] *	0.088	U	ug/L	1	0.088	2.0	1	EPA 8260B	07/29/07 22:44	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	07/29/07 22:44	jkg	
Tetrachloroethene [127-18-4] *	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	07/29/07 22:44	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/29/07 22:44	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	07/29/07 22:44	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	0.20	1	EPA 8260B	07/29/07 22:44	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	07/29/07 22:44	jkg	
Trichloroethene [79-01-6] *	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	07/29/07 22:44	jkg	
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	07/29/07 22:44	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	07/29/07 22:44	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/29/07 22:44	jkg	
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	4	EPA 8260B	07/29/07 22:44	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**

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Description:	MW-25	**Lab Sample ID:**	C709709-12	**Received:**	07/20/07 17:00
Matrix:	Ground Water	**Sampled:**	07/20/07 07:40	**Work Order:**	C709709
Project:	Iredell Co. C&D LF	**Sampled By:**	J.P. Fohl		

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**
4-Bromofluorobenzene	*42*	*1*	*50.0*	*85 %*	*67-125*	*7G29001*	*EPA 8260B*	*07/29/07 22:44*	*jkg*	
Dibromofluoromethane	*46*	*1*	*50.0*	*91 %*	*69-111*	*7G29001*	*EPA 8260B*	*07/29/07 22:44*	*jkg*	
Toluene-d8	*48*	*1*	*50.0*	*96 %*	*85-120*	*7G29001*	*EPA 8260B*	*07/29/07 22:44*	*jkg*	

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Description: MW-25
Matrix: Ground Water
Project: Iredell Co. C&D LF

Lab Sample ID: C709709-12
Sampled: 07/20/07 07:40
Sampled By: J.P. Fohl

Received: 07/20/07 17:00
Work Order: C709709

Metals by EPA 6000/7000 Series Methods

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] *	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	08/02/07 18:39	JFL	
Arsenic [7440-38-2] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 15:18	JDH	
Barium [7440-39-3] *	**61.0**	J	ug/L	1		10.0	100	EPA 6010B	08/01/07 15:18	JDH	
Beryllium [7440-41-7] *	0.70	U	ug/L	1		1.00	1	EPA 6010B	08/01/07 15:18	JDH	
Cadmium [7440-43-9] *	0.50	U	ug/L	1		1.00	1	EPA 6010B	08/01/07 15:18	JDH	
Chromium [7440-47-3] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 15:18	JDH	
Cobalt [7440-48-4] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 15:18	JDH	
Copper [7440-50-8] *	0.60	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 15:18	JDH	
Iron [7439-89-6] *	**3150**		ug/L	1	20	50	300	EPA 6010B	08/01/07 15:18	JDH	
Lead [7439-92-1] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 15:18	JDH	
Manganese [7439-96-5] *	**88.0**		ug/L	1	1.4	10.0	50	EPA 6010B	08/01/07 15:18	JDH	
Nickel [7440-02-0] *	2.0	U	ug/L	1		10.0	50	EPA 6010B	08/01/07 15:18	JDH	
Selenium [7782-49-2] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 15:18	JDH	
Silver [7440-22-4] *	2.0	U	ug/L	1		10.0	10	EPA 6010B	08/01/07 15:18	JDH	
Thallium [7440-28-0] *	0.036	U	ug/L	1	0.036	0.050	5.5	EPA 6020	08/02/07 18:39	JFL	
Vanadium [7440-62-2] *	1.0	U	ug/L	1		10.0	25	EPA 6010B	08/01/07 15:18	JDH	
Zinc [7440-66-6] *	**10.5**		ug/L	1		10.0	10	EPA 6010B	08/01/07 15:18	JDH	

Classical Chemistry Parameters

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Chloride [16887-00-6] *	2.0	U	mg/L	1	2.0	5.0	NE	SM4500-Cl/E	08/18/07 14:47	RWH	Q
Sulfate as SO4 [14808-79-8]	5.0	U	mg/L	1	5.0	10	NE	EPA 375.4	08/06/07 19:43	RWH	
Total Alkalinity [NA] *	**24**		mg/L	1	5.2	15	NE	EPA 310.2	08/01/07 08:43	AMH	
Total Dissolved Solids [NA] *	**96**		mg/L	1	10	10	NE	EPA 160.1	08/01/07 14:00	JOC	

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Description:	MW-25	**Lab Sample ID:**	C709709-12	**Received:**	07/20/07 17:00
Matrix:	Ground Water	**Sampled:**	07/20/07 07:40	**Work Order:**	C709709
Project:	Iredell Co. C&D LF	**Sampled By:**	J.P. Fohl		

Metals by EPA 6000/7000 Series Methods

** - ENCO Jacksonville certified analyte [NC 442]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Mercury [7439-97-6] *	**0.38**		ug/L	1	0.11	0.20	0.2	EPA 7470A	07/27/07 13:39	HG	

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QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 7G29001 - EPA 5030B_MS

Blank (7G29001-BLK1) Prepared: 07/29/2007 12:57 Analyzed: 07/29/2007 13:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloromethane	0.18	U	1.0	ug/L							
Vinyl chloride	0.15	U	1.0	ug/L							
Bromomethane	0.21	U	1.0	ug/L							
Chloroethane	0.40	U	1.0	ug/L							
Trichlorofluoromethane	0.16	U	1.0	ug/L							
1,1-Dichloroethene	0.14	U	1.0	ug/L							
Acetone	0.90	U	5.0	ug/L							
Iodomethane	0.23	U	2.0	ug/L							
Carbon disulfide	0.12	U	5.0	ug/L							
Methylene chloride	0.088	U	2.0	ug/L							
Acrylonitrile	2.0	U	5.0	ug/L							
trans-1,2-Dichloroethene	0.10	U	1.0	ug/L							
1,1-Dichloroethane	0.090	U	1.0	ug/L							
Vinyl acetate	0.19	U	2.0	ug/L							
2-Butanone	0.56	U	5.0	ug/L							
cis-1,2-Dichloroethene	0.14	U	1.0	ug/L							
Bromochloromethane	0.19	U	1.0	ug/L							
Chloroform	0.16	U	1.0	ug/L							
1,1,1-Trichloroethane	0.24	U	1.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
1,2-Dichloroethane	0.36	U	1.0	ug/L							
Benzene	0.12	U	1.0	ug/L							
Trichloroethene	0.23	U	1.0	ug/L							
1,2-Dichloropropane	0.18	U	1.0	ug/L							
Dibromomethane	0.14	U	1.0	ug/L							
Bromodichloromethane	0.19	U	0.40	ug/L							
cis-1,3-Dichloropropene	0.16	U	0.20	ug/L							
4-Methyl-2-pentanone	0.36	U	5.0	ug/L							
Toluene	0.15	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.18	U	0.20	ug/L							
1,1,2-Trichloroethane	0.24	U	1.0	ug/L							
Tetrachloroethene	0.25	U	1.0	ug/L							
2-Hexanone	0.24	U	5.0	ug/L							
Dibromochloromethane	0.18	U	1.0	ug/L							
1,2-Dibromoethane	0.19	U	1.0	ug/L							
Chlorobenzene	0.16	U	1.0	ug/L							
1,1,1,2-Tetrachloroethane	0.16	U	1.0	ug/L							
Ethylbenzene	0.17	U	1.0	ug/L							
Styrene	0.12	U	1.0	ug/L							
Bromoform	0.36	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.27	U	1.0	ug/L							
1,2,3-Trichloropropane	0.32	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.60	U	1.0	ug/L							
1,4-Dichlorobenzene	0.15	U	1.0	ug/L							
1,2-Dichlorobenzene	0.17	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.19	U	1.0	ug/L							
Xylenes (Total)	0.21	U	1.0	ug/L							
Surrogate: Dibromofluoromethane	*43*			*ug/L*	*50.0*		*85*	*69-111*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 7G29001 - EPA 5030B_MS

Blank (7G29001-BLK1) Continued Prepared: 07/29/2007 12:57 Analyzed: 07/29/2007 13:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Toluene-d8	*46*			*ug/L*	*50.0*		*93*	*85-120*			
Surrogate: 4-Bromofluorobenzene	*40*			*ug/L*	*50.0*		*81*	*67-125*			

LCS (7G29001-BS1) Prepared: 07/29/2007 12:57 Analyzed: 07/29/2007 13:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	13		1.0	ug/L	20.0		65	57-141			
Benzene	21		1.0	ug/L	20.0		104	76-116			
Trichloroethene	21		1.0	ug/L	20.0		107	81-118			
Toluene	21		1.0	ug/L	20.0		104	77-120			
Chlorobenzene	21		1.0	ug/L	20.0		104	75-115			

Matrix Spike (7G29001-MS1) Prepared: 07/29/2007 12:57 Analyzed: 07/29/2007 14:22

Source: C709714-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	13		1.0	ug/L	20.0	0.14 U	64	57-141			
Benzene	20		1.0	ug/L	20.0	0.12 U	100	76-116			
Trichloroethene	20		1.0	ug/L	20.0	0.23 U	98	81-118			
Toluene	17		1.0	ug/L	20.0	0.15 U	84	77-120			
Chlorobenzene	18		1.0	ug/L	20.0	0.16 U	90	75-115			

Matrix Spike Dup (7G29001-MSD1) Prepared: 07/29/2007 12:57 Analyzed: 07/29/2007 14:49

Source: C709714-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	9.8		1.0	ug/L	20.0	0.14 U	49	57-141	26	12	QM-07
Benzene	15		1.0	ug/L	20.0	0.12 U	76	76-116	28	14	QM-07
Trichloroethene	15		1.0	ug/L	20.0	0.23 U	76	81-118	25	11	QM-07
Toluene	14		1.0	ug/L	20.0	0.15 U	69	77-120	19	17	QM-07
Chlorobenzene	14		1.0	ug/L	20.0	0.16 U	71	75-115	23	12	QM-07

Batch 7G29004 - EPA 5030B_MS

Blank (7G29004-BLK1) Prepared: 07/29/2007 13:23 Analyzed: 07/30/2007 02:14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloromethane	0.18	U	1.0	ug/L							
Vinyl chloride	0.15	U	1.0	ug/L							
Bromomethane	0.21	U	1.0	ug/L							
Chloroethane	0.40	U	1.0	ug/L							
Trichlorofluoromethane	0.16	U	1.0	ug/L							
1,1-Dichloroethene	0.14	U	1.0	ug/L							
Acetone	0.90	U	5.0	ug/L							
Iodomethane	0.23	U	2.0	ug/L							
Carbon disulfide	0.12	U	5.0	ug/L							
Methylene chloride	0.088	U	2.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 7G29004 - EPA 5030B_MS

Blank (7G29004-BLK1) Continued Prepared: 07/29/2007 13:23 Analyzed: 07/30/2007 02:14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acrylonitrile	2.0	U	5.0	ug/L							
trans-1,2-Dichloroethene	0.10	U	1.0	ug/L							
1,1-Dichloroethane	0.090	U	1.0	ug/L							
Vinyl acetate	0.19	U	2.0	ug/L							
2-Butanone	0.56	U	5.0	ug/L							
cis-1,2-Dichloroethene	0.14	U	1.0	ug/L							
Bromochloromethane	0.19	U	1.0	ug/L							
Chloroform	0.16	U	1.0	ug/L							
1,1,1-Trichloroethane	0.24	U	1.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
1,2-Dichloroethane	0.36	U	1.0	ug/L							
Benzene	0.12	U	1.0	ug/L							
Trichloroethene	0.23	U	1.0	ug/L							
1,2-Dichloropropane	0.18	U	1.0	ug/L							
Dibromomethane	0.14	U	1.0	ug/L							
Bromodichloromethane	0.19	U	0.40	ug/L							
cis-1,3-Dichloropropene	0.16	U	0.20	ug/L							
4-Methyl-2-pentanone	0.36	U	5.0	ug/L							
Toluene	0.15	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.18	U	0.20	ug/L							
1,1,2-Trichloroethane	0.24	U	1.0	ug/L							
Tetrachloroethene	0.25	U	1.0	ug/L							
2-Hexanone	0.24	U	5.0	ug/L							
Dibromochloromethane	0.18	U	1.0	ug/L							
1,2-Dibromoethane	0.19	U	1.0	ug/L							
Chlorobenzene	0.16	U	1.0	ug/L							
1,1,1,2-Tetrachloroethane	0.16	U	1.0	ug/L							
Ethylbenzene	0.17	U	1.0	ug/L							
Styrene	0.12	U	1.0	ug/L							
Bromoform	0.36	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.27	U	1.0	ug/L							
1,2,3-Trichloropropane	0.32	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.60	U	1.0	ug/L							
1,4-Dichlorobenzene	0.15	U	1.0	ug/L							
1,2-Dichlorobenzene	0.17	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.19	U	1.0	ug/L							
Xylenes (Total)	0.21	U	1.0	ug/L							
Surrogate: Dibromofluoromethane	*45*			*ug/L*	*50.0*		*91*	*69-111*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*93*	*85-120*			
Surrogate: 4-Bromofluorobenzene	*41*			*ug/L*	*50.0*		*82*	*67-125*			

LCS (7G29004-BS1) Prepared: 07/29/2007 13:23 Analyzed: 07/30/2007 02:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	13		1.0	ug/L	20.0		63	57-141			
Benzene	20		1.0	ug/L	20.0		101	76-116			
Trichloroethene	21		1.0	ug/L	20.0		106	81-118			
Toluene	20		1.0	ug/L	20.0		101	77-120			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 7G29004 - EPA 5030B_MS

LCS (7G29004-BS1) Continued Prepared: 07/29/2007 13:23 Analyzed: 07/30/2007 02:40

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorobenzene	21		1.0	ug/L	20.0		104	75-115			

Matrix Spike (7G29004-MS1) Prepared: 07/29/2007 13:23 Analyzed: 07/30/2007 03:33

Source: C709709-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	14		1.0	ug/L	20.0	0.14 U	68	57-141			
Benzene	24		1.0	ug/L	20.0	1.3	113	76-116			
Trichloroethene	23		1.0	ug/L	20.0	0.88	110	81-118			
Toluene	18		1.0	ug/L	20.0	0.15 U	90	77-120			
Chlorobenzene	19		1.0	ug/L	20.0	0.16 U	97	75-115			

Matrix Spike Dup (7G29004-MSD1) Prepared: 07/29/2007 13:23 Analyzed: 07/30/2007 03:59

Source: C709709-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	13		1.0	ug/L	20.0	0.14 U	64	57-141	5	12	
Benzene	22		1.0	ug/L	20.0	1.3	101	76-116	11	14	
Trichloroethene	21		1.0	ug/L	20.0	0.88	101	81-118	8	11	
Toluene	18		1.0	ug/L	20.0	0.15 U	88	77-120	2	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.16 U	93	75-115	4	12	

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 7G29002 - EPA 3005A

Blank (7G29002-BLK1) Prepared: 07/29/2007 12:59 Analyzed: 08/01/2007 13:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	10.0	U	10.0	ug/L							
Barium	10.0	J	10.0	ug/L							QB-01
Beryllium	1.00	U	1.00	ug/L							
Cadmium	1.00	U	1.00	ug/L							
Chromium	10.0	U	10.0	ug/L							
Cobalt	10.0	U	10.0	ug/L							
Copper	10.0	U	10.0	ug/L							
Iron	20	U	50	ug/L							
Lead	10.0	U	10.0	ug/L							
Manganese	1.4	U	10.0	ug/L							
Nickel	10.0	U	10.0	ug/L							
Selenium	10.0	U	10.0	ug/L							
Silver	10.0	U	10.0	ug/L							
Vanadium	10.0	U	10.0	ug/L							
Zinc	10.0	U	10.0	ug/L							

LCS (7G29002-BS1) Prepared: 07/29/2007 12:59 Analyzed: 08/01/2007 13:10

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

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 7G29002 - EPA 3005A

LCS (7G29002-BS1) Continued Prepared: 07/29/2007 12:59 Analyzed: 08/01/2007 13:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.5		0.01	mg/L	0.500		107	82-117			
Barium	0.54		0.01	mg/L	0.500		109	72-125			
Beryllium	0.28		0.001	mg/L	0.250		110	75-121			
Cadmium	0.28		0.001	mg/L	0.250		112	72-120			
Chromium	0.5		0.01	mg/L	0.500		106	78-119			
Cobalt	0.5		0.01	mg/L	0.500		107	76-117			
Copper	0.26		0.01	mg/L	0.250		105	80-117			
Iron	5		0.05	mg/L	5.00		108	84-133			
Lead	0.5		0.01	mg/L	0.500		105	72-121			
Manganese	0.3		0.01	mg/L	0.250		105	76-123			
Nickel	0.5		0.01	mg/L	0.500		109	78-116			
Selenium	0.5		0.01	mg/L	0.500		108	82-127			
Silver	0.05		0.01	mg/L	0.0500		102	80-128			
Vanadium	0.3		0.01	mg/L	0.250		105	78-117			
Zinc	0.5		0.01	mg/L	0.500		108	80-120			

Matrix Spike (7G29002-MS1) Prepared: 07/29/2007 12:59 Analyzed: 08/01/2007 13:25

Source: C709709-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.5		0.01	mg/L	0.500	-0.002	104	64-126			
Barium	0.71		0.01	mg/L	0.500	0.17	107	74-119			
Beryllium	0.27		0.001	mg/L	0.250	0.001 U	109	70-131			
Cadmium	0.27		0.001	mg/L	0.250	-0.0008	109	68-121			
Chromium	0.5		0.01	mg/L	0.500	-0.01	106	73-120			
Cobalt	0.5		0.01	mg/L	0.500	0.002	104	76-120			
Copper	0.26		0.01	mg/L	0.250	0.0003	104	75-123			
Iron	11		0.05	mg/L	5.00	6	115	48-144			
Lead	0.5		0.01	mg/L	0.500	0.003	102	68-126			
Manganese	0.4		0.01	mg/L	0.250	0.2	104	55-146			
Nickel	0.5		0.01	mg/L	0.500	-0.003	107	64-126			
Selenium	0.5		0.01	mg/L	0.500	-0.003	105	65-129			
Silver	0.05		0.01	mg/L	0.0500	-0.0009	99	69-121			
Vanadium	0.3		0.01	mg/L	0.250	0.01	103	71-130			
Zinc	0.5		0.01	mg/L	0.500	0.03	104	63-131			

Matrix Spike Dup (7G29002-MSD1) Prepared: 07/29/2007 12:59 Analyzed: 08/01/2007 13:32

Source: C709709-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.5		0.01	mg/L	0.500	-0.002	105	64-126	0.5	12	
Barium	0.71		0.01	mg/L	0.500	0.17	108	74-119	0.6	11	
Beryllium	0.27		0.001	mg/L	0.250	0.001 U	109	70-131	0.4	21	
Cadmium	0.27		0.001	mg/L	0.250	-0.0008	109	68-121	0.6	12	
Chromium	0.5		0.01	mg/L	0.500	-0.01	107	73-120	0.6	10	
Cobalt	0.5		0.01	mg/L	0.500	0.002	105	76-120	0.6	17	
Copper	0.26		0.01	mg/L	0.250	0.0003	104	75-123	0.7	16	
Iron	11		0.05	mg/L	5.00	6	116	48-144	0.3	23	

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 7G29002 - EPA 3005A

Matrix Spike Dup (7G29002-MSD1) Continued Prepared: 07/29/2007 12:59 Analyzed: 08/01/2007 13:32

Source: C709709-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Lead	0.5		0.01	mg/L	0.500	0.003	103	68-126	1	19	
Manganese	0.4		0.01	mg/L	0.250	0.2	105	55-146	1	19	
Nickel	0.5		0.01	mg/L	0.500	-0.003	108	64-126	0.7	12	
Selenium	0.5		0.01	mg/L	0.500	-0.003	106	65-129	0.8	10	
Silver	0.05		0.01	mg/L	0.0500	-0.0009	101	69-121	2	12	
Vanadium	0.3		0.01	mg/L	0.250	0.01	104	71-130	1	16	
Zinc	0.5		0.01	mg/L	0.500	0.03	104	63-131	0.5	24	

Batch 7G31011 - EPA 3005A

Blank (7G31011-BLK1) Prepared: 07/31/2007 09:44 Analyzed: 08/02/2007 17:57

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.68	U	2.00	ug/L							
Thallium	0.036	U	0.050	ug/L							

LCS (7G31011-BS1) Prepared: 07/31/2007 09:44 Analyzed: 08/02/2007 18:00

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.02		0.002	mg/L	0.0250		98	85-115			
Thallium	0.027		0.00005	mg/L	0.0250		107	85-115			

Matrix Spike (7G31011-MS1) Prepared: 07/31/2007 09:44 Analyzed: 08/02/2007 18:05

Source: C709709-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.02		0.002	mg/L	0.0250	0.0002	83	85-115			QM-05
Thallium	0.026		0.00005	mg/L	0.0250	0.00003	104	85-115			

Matrix Spike Dup (7G31011-MSD1) Prepared: 07/31/2007 09:44 Analyzed: 08/02/2007 18:07

Source: C709709-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.02		0.002	mg/L	0.0250	0.0002	80	85-115	4	20	QM-05
Thallium	0.026		0.00005	mg/L	0.0250	0.00003	103	85-115	1	20	

Classical Chemistry Parameters - Quality Control

Batch 7G26003 - NO PREP

Blank (7G26003-BLK1) Prepared: 07/26/2007 07:27 Analyzed: 08/01/2007 14:00

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	10	U	10	mg/L							

LCS (7G26003-BS1) Prepared: 07/26/2007 07:27 Analyzed: 08/01/2007 14:00

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 7G26003 - NO PREP

LCS (7G26003-BS1) Continued Prepared: 07/26/2007 07:27 Analyzed: 08/01/2007 14:00

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	280		10	mg/L	300		94	90-110			

Duplicate (7G26003-DUP1) Prepared: 07/26/2007 07:27 Analyzed: 08/01/2007 14:00

Source: C709057-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Dissolved Solids	20		10	mg/L		22			10	10	

Batch 7G31007 - NO PREP

Blank (7G31007-BLK1) Prepared: 07/31/2007 09:18 Analyzed: 08/01/2007 08:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	5.2	U	15	mg/L							

LCS (7G31007-BS1) Prepared: 07/31/2007 09:18 Analyzed: 08/01/2007 08:22

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	88		15	mg/L	100		88	80-120			

Matrix Spike (7G31007-MS1) Prepared: 07/31/2007 09:18 Analyzed: 08/01/2007 08:32

Source: C709709-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	170		15	mg/L	97.3	80	90	80-120			

Matrix Spike Dup (7G31007-MSD1) Prepared: 07/31/2007 09:18 Analyzed: 08/01/2007 08:33

Source: C709709-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Alkalinity	180		15	mg/L	97.3	80	99	80-120	5	25	

Batch 7H02028 - NO PREP

Blank (7H02028-BLK1) Prepared: 08/02/2007 15:32 Analyzed: 08/06/2007 17:42

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	5.0	U	10	mg/L							

LCS (7H02028-BS1) Prepared: 08/02/2007 15:32 Analyzed: 08/06/2007 17:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	24		10	mg/L	20.0		119	80-120			

Matrix Spike (7H02028-MS1) Prepared: 08/02/2007 15:32 Analyzed: 08/06/2007 18:43

Source: C709709-01

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 7H02028 - NO PREP

Matrix Spike (7H02028-MS1) Continued Prepared: 08/02/2007 15:32 Analyzed: 08/06/2007 18:43

Source: C709709-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	5.0	U	10	mg/L	20.0	5.0 U		80-120			

Matrix Spike Dup (7H02028-MSD1) Prepared: 08/02/2007 15:32 Analyzed: 08/06/2007 18:48

Source: C709709-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	5.0	U	10	mg/L	20.0	5.0 U		80-120		25	

Batch 7H03003 - NO PREP

Blank (7H03003-BLK2) Prepared: 08/03/2007 07:30 Analyzed: 08/18/2007 14:36

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	2.0	U	5.0	mg/L							

LCS (7H03003-BS2) Prepared: 08/03/2007 07:30 Analyzed: 08/18/2007 14:37

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	99		5.0	mg/L	100		99	80-120			

Matrix Spike (7H03003-MS2) Prepared: 08/03/2007 07:30 Analyzed: 08/18/2007 14:40

Source: C709709-01RE1

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	59		5.0	mg/L	50.0	8.6	100	80-120			

Matrix Spike Dup (7H03003-MSD2) Prepared: 08/03/2007 07:30 Analyzed: 08/18/2007 14:41

Source: C709709-01RE1

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloride	56		5.0	mg/L	50.0	8.6	95	80-120	5	25	

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 7G26029 - EPA 7470A

Blank (7G26029-BLK1) Prepared: 07/26/2007 16:47 Analyzed: 07/27/2007 12:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.11	U	0.20	ug/L							U

LCS (7G26029-BS1) Prepared: 07/26/2007 16:47 Analyzed: 07/27/2007 12:17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.57		0.20	ug/L	5.00		111	85-115			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 7G26029 - EPA 7470A

Matrix Spike (7G26029-MS1) Prepared: 07/26/2007 16:47 Analyzed: 07/27/2007 12:31

Source: C709709-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.02		0.20	ug/L	5.00	0.11 U	100	75-125			

Matrix Spike Dup (7G26029-MSD1) Prepared: 07/26/2007 16:47 Analyzed: 07/27/2007 12:34

Source: C709709-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.12		0.20	ug/L	5.00	0.11 U	102	75-125	2	20	

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
I-01	Estimated value, see narative.
Q	Analysis performed outside of method - specified holding time.
QB-01	The method blank had a positive result for the analyte; however, the concentration in the method blank is less than 10% of the sample result, which is allowable under NELAC guidelines.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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

1 of 1

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Client Name	Municipal Engineering Services (MU001)
Project Number	G07013.0 (CD)
Address	P.O. Box 97
Project Name/Desc	Iredell Co. C&D LF
City/ST/Zip	Garner, NC 27529
PO # / Billing Info	
Tel	(919) 772-5393
Fax	(919) 772-1176
Reporting Contact	Jonathan Pfohl
Sampler(s) Name, Affiliation (Print)	J. Pfohl MESCO
Billing Contact	Accounts Payable
Sampler(s) Signature	
Facility # (if required)	

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C709709

Requested Analyses / 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,Fe,Hg,Mn,Ni,Pb,Sb,Se,Tl,V,Zn	Alkalinity 310.2	Chloride 300,Sulfate 300,TDS 160.1							Sample Comments
	MW-16 MS/MSD	7/19/07	2:00	Grab	Water	9	X	X	X	X							
	MW-10R		1:10		Water	6	X	X	X	X							
	MW-9RR		2:25		Water	6	X	X	X	X							
	MW-9R		3:00		Water	6	X	X	X	X							
	~~MW~~ SW-3		3:15		Water	4	X	X									
	MW-22		3:40		Water	6	X	X	X	X							
	MW-23		4:15		Water	6	X	X	X	X							
	MW-24D		4:50		Water	6	X	X	X	X							
	MW-24S		5:25		Water	6	X	X	X	X							
	MW-26D	7/20/07	6:25AM		Water	6	X	X	X	X							
	MW-26S		6:55AM		Water	6	X	X	X	X							
	MW-25		7:40AM		Water	6	X	X	X	X							

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
CARY	7/9/07		7/20/07 5:00		7/20/07 17:00
Comments: SW-6 Dry		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	

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

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

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

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

Tuesday, July 31, 2007

Municipal Engineering Services (MU001)

Attn: Jonathan Pfohl

P.O. Box 97

Garner, NC 27529

RE: Laboratory Results for
Project Number: G07013.0 (Blanks), Project Name/Desc: Iredell Co. LF - Blanks
ENCO Workorder: C709717

Dear Jonathan Pfohl,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, July 20, 2007.

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

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

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

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

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 14.

CASE NARRATIVE

Date: July 31, 2007
Client: Municipal Engineering Services
Project #: Iredell Co LF Blanks
Lab ID: C709717

Overview

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

Quality Control Samples

No Comments

Quality Control Remarks

VGCMS Toluene was found in the Trip Blank and Equipment Blank. These detections were verified. The associated method blank was clean. At this time, Environmental Conservation Laboratories is investigating to determine if this contamination originated in the laboratory or the containers.

Other Comments

None

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

Released By:
Environmental Conservation Laboratories, Inc.

Chuck Smith
Project Manager

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID:	EB	Lab ID:	C709717-01	Sampled:	07/20/07 12:00	Received:	07/20/07 17:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	08/03/07	07/30/07 12:17	7/30/2007 21:52

Client ID:	FB	Lab ID:	C709717-02	Sampled:	07/20/07 12:10	Received:	07/20/07 17:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	08/03/07	07/30/07 12:17	7/30/2007 22:18

Client ID:	TB	Lab ID:	C709717-03	Sampled:	07/20/07 00:00	Received:	07/20/07 17:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	08/03/07	07/30/07 12:17	7/30/2007 19:08

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: EB **Lab ID:** C709717-01

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Toluene	0.35	J	1	0.15	1.0	1	ug/L	EPA 8260B	

Client ID: TB **Lab ID:** C709717-03

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Toluene	0.39	J	1	0.15	1.0	1	ug/L	EPA 8260B	

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ANALYTICAL RESULTS

Description: EB
Matrix: Water
Project: Iredell Co. LF - Blanks

Lab Sample ID: C709717-01
Sampled: 07/20/07 12:00
Sampled By: J.P. Fohl

Received: 07/20/07 17:00
Work Order: C709717

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	07/30/07 21:52	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	07/30/07 21:52	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/30/07 21:52	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/30/07 21:52	jkg	
1,1-Dichloroethane [75-34-3] *	0.090	U	ug/L	1	0.090	1.0	5	EPA 8260B	07/30/07 21:52	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	07/30/07 21:52	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	07/30/07 21:52	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	07/30/07 21:52	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	07/30/07 21:52	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	07/30/07 21:52	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/30/07 21:52	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/30/07 21:52	jkg	
1,4-Dichlorobenzene [106-46-7] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/30/07 21:52	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	07/30/07 21:52	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	07/30/07 21:52	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	07/30/07 21:52	jkg	
Acetone [67-64-1] *	0.90	U	ug/L	1	0.90	5.0	100	EPA 8260B	07/30/07 21:52	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	07/30/07 21:52	jkg	
Benzene [71-43-2] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	07/30/07 21:52	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	07/30/07 21:52	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	0.40	1	EPA 8260B	07/30/07 21:52	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	07/30/07 21:52	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	07/30/07 21:52	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	07/30/07 21:52	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/07 21:52	jkg	
Chlorobenzene [108-90-7] *	0.16	U	ug/L	1	0.16	1.0	3	EPA 8260B	07/30/07 21:52	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	07/30/07 21:52	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	07/30/07 21:52	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/30/07 21:52	jkg	
cis-1,2-Dichloroethene [156-59-2] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	07/30/07 21:52	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	0.20	1	EPA 8260B	07/30/07 21:52	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/30/07 21:52	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	07/30/07 21:52	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	07/30/07 21:52	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	07/30/07 21:52	jkg	
Methylene chloride [75-09-2] *	0.088	U	ug/L	1	0.088	2.0	1	EPA 8260B	07/30/07 21:52	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	07/30/07 21:52	jkg	
Tetrachloroethene [127-18-4] *	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	07/30/07 21:52	jkg	
Toluene [108-88-3] *	**0.35**	J	ug/L	1	0.15	1.0	1	EPA 8260B	07/30/07 21:52	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	07/30/07 21:52	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	0.20	1	EPA 8260B	07/30/07 21:52	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	07/30/07 21:52	jkg	
Trichloroethene [79-01-6] *	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	07/30/07 21:52	jkg	
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	07/30/07 21:52	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	07/30/07 21:52	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/30/07 21:52	jkg	

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Description:	EB	**Lab Sample ID:**	C709717-01	**Received:**	07/20/07 17:00
Matrix:	Water	**Sampled:**	07/20/07 12:00	**Work Order:**	C709717
Project:	Iredell Co. LF - Blanks	**Sampled By:**	J.P. Fohl		

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	4	EPA 8260B	07/30/07 21:52	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*42*	*1*	*50.0*	*84 %*	*67-125*	*7G30024*	*EPA 8260B*	*07/30/07 21:52*	*jkg*	
Dibromofluoromethane	*44*	*1*	*50.0*	*88 %*	*69-111*	*7G30024*	*EPA 8260B*	*07/30/07 21:52*	*jkg*	
Toluene-d8	*46*	*1*	*50.0*	*92 %*	*85-120*	*7G30024*	*EPA 8260B*	*07/30/07 21:52*	*jkg*	

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

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Description: FB
Matrix: Water
Project: Iredell Co. LF - Blanks

Lab Sample ID: C709717-02
Sampled: 07/20/07 12:10
Sampled By: J.P. Fohl

Received: 07/20/07 17:00
Work Order: C709717

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	07/30/07 22:18	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	07/30/07 22:18	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/30/07 22:18	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/30/07 22:18	jkg	
1,1-Dichloroethane [75-34-3] *	0.090	U	ug/L	1	0.090	1.0	5	EPA 8260B	07/30/07 22:18	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	07/30/07 22:18	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	07/30/07 22:18	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	07/30/07 22:18	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	07/30/07 22:18	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	07/30/07 22:18	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/30/07 22:18	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/30/07 22:18	jkg	
1,4-Dichlorobenzene [106-46-7] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/30/07 22:18	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	07/30/07 22:18	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	07/30/07 22:18	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	07/30/07 22:18	jkg	
Acetone [67-64-1] *	0.90	U	ug/L	1	0.90	5.0	100	EPA 8260B	07/30/07 22:18	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	07/30/07 22:18	jkg	
Benzene [71-43-2] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	07/30/07 22:18	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	07/30/07 22:18	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	0.40	1	EPA 8260B	07/30/07 22:18	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	07/30/07 22:18	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	07/30/07 22:18	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	07/30/07 22:18	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/07 22:18	jkg	
Chlorobenzene [108-90-7] *	0.16	U	ug/L	1	0.16	1.0	3	EPA 8260B	07/30/07 22:18	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	07/30/07 22:18	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	07/30/07 22:18	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/30/07 22:18	jkg	
cis-1,2-Dichloroethene [156-59-2] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	07/30/07 22:18	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	0.20	1	EPA 8260B	07/30/07 22:18	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/30/07 22:18	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	07/30/07 22:18	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	07/30/07 22:18	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	07/30/07 22:18	jkg	
Methylene chloride [75-09-2] *	0.088	U	ug/L	1	0.088	2.0	1	EPA 8260B	07/30/07 22:18	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	07/30/07 22:18	jkg	
Tetrachloroethene [127-18-4] *	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	07/30/07 22:18	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/30/07 22:18	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	07/30/07 22:18	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	0.20	1	EPA 8260B	07/30/07 22:18	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	07/30/07 22:18	jkg	
Trichloroethene [79-01-6] *	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	07/30/07 22:18	jkg	
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	07/30/07 22:18	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	07/30/07 22:18	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/30/07 22:18	jkg	
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	4	EPA 8260B	07/30/07 22:18	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**

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Description:	FB	**Lab Sample ID:**	C709717-02	**Received:**	07/20/07 17:00
Matrix:	Water	**Sampled:**	07/20/07 12:10	**Work Order:**	C709717
Project:	Iredell Co. LF - Blanks	**Sampled By:**	J.P. Fohl		

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**
4-Bromofluorobenzene	*41*	*1*	*50.0*	*81 %*	*67-125*	*7G30024*	*EPA 8260B*	*07/30/07 22:18*	*jkg*	
Dibromofluoromethane	*45*	*1*	*50.0*	*91 %*	*69-111*	*7G30024*	*EPA 8260B*	*07/30/07 22:18*	*jkg*	
Toluene-d8	*48*	*1*	*50.0*	*96 %*	*85-120*	*7G30024*	*EPA 8260B*	*07/30/07 22:18*	*jkg*	

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

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Description: TB
Matrix: Water
Project: Iredell Co. LF - Blanks

Lab Sample ID: C709717-03
Sampled: 07/20/07 00:00
Sampled By:

Received: 07/20/07 17:00
Work Order: C709717

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	07/30/07 19:08	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	07/30/07 19:08	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	07/30/07 19:08	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	07/30/07 19:08	jkg	
1,1-Dichloroethane [75-34-3] *	0.090	U	ug/L	1	0.090	1.0	5	EPA 8260B	07/30/07 19:08	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	07/30/07 19:08	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	07/30/07 19:08	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	07/30/07 19:08	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	07/30/07 19:08	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	07/30/07 19:08	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	07/30/07 19:08	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/30/07 19:08	jkg	
1,4-Dichlorobenzene [106-46-7] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/30/07 19:08	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	07/30/07 19:08	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	07/30/07 19:08	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	07/30/07 19:08	jkg	
Acetone [67-64-1] *	0.90	U	ug/L	1	0.90	5.0	100	EPA 8260B	07/30/07 19:08	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	07/30/07 19:08	jkg	
Benzene [71-43-2] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	07/30/07 19:08	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	07/30/07 19:08	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	0.40	1	EPA 8260B	07/30/07 19:08	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	07/30/07 19:08	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	07/30/07 19:08	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	07/30/07 19:08	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	07/30/07 19:08	jkg	
Chlorobenzene [108-90-7] *	0.16	U	ug/L	1	0.16	1.0	3	EPA 8260B	07/30/07 19:08	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	07/30/07 19:08	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	07/30/07 19:08	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/30/07 19:08	jkg	
cis-1,2-Dichloroethene [156-59-2] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	07/30/07 19:08	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	0.20	1	EPA 8260B	07/30/07 19:08	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	07/30/07 19:08	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	07/30/07 19:08	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	07/30/07 19:08	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	07/30/07 19:08	jkg	
Methylene chloride [75-09-2] *	0.088	U	ug/L	1	0.088	2.0	1	EPA 8260B	07/30/07 19:08	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	07/30/07 19:08	jkg	
Tetrachloroethene [127-18-4] *	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	07/30/07 19:08	jkg	
Toluene [108-88-3] *	**0.39**	J	ug/L	1	0.15	1.0	1	EPA 8260B	07/30/07 19:08	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	07/30/07 19:08	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	0.20	1	EPA 8260B	07/30/07 19:08	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	07/30/07 19:08	jkg	
Trichloroethene [79-01-6] *	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	07/30/07 19:08	jkg	
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	07/30/07 19:08	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	07/30/07 19:08	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	07/30/07 19:08	jkg	
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	4	EPA 8260B	07/30/07 19:08	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**

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Description:	TB	**Lab Sample ID:**	C709717-03	**Received:**	07/20/07 17:00
Matrix:	Water	**Sampled:**	07/20/07 00:00	**Work Order:**	C709717
Project:	Iredell Co. LF - Blanks	**Sampled By:**			

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**
4-Bromofluorobenzene	*45*	*1*	*50.0*	*89 %*	*67-125*	*7G30024*	*EPA 8260B*	*07/30/07 19:08*	*jkg*	
Dibromofluoromethane	*49*	*1*	*50.0*	*99 %*	*69-111*	*7G30024*	*EPA 8260B*	*07/30/07 19:08*	*jkg*	
Toluene-d8	*51*	*1*	*50.0*	*102 %*	*85-120*	*7G30024*	*EPA 8260B*	*07/30/07 19:08*	*jkg*	

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QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 7G30024 - EPA 5030B_MS

Blank (7G30024-BLK1) Prepared: 07/30/2007 14:28 Analyzed: 07/30/2007 14:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloromethane	0.18	U	1.0	ug/L							
Vinyl chloride	0.15	U	1.0	ug/L							
Bromomethane	0.21	U	1.0	ug/L							
Chloroethane	0.40	U	1.0	ug/L							
Trichlorofluoromethane	0.16	U	1.0	ug/L							
1,1-Dichloroethene	0.14	U	1.0	ug/L							
Acetone	0.90	U	5.0	ug/L							
Iodomethane	0.23	U	2.0	ug/L							
Carbon disulfide	0.12	U	5.0	ug/L							
Methylene chloride	0.088	U	2.0	ug/L							
Acrylonitrile	2.0	U	5.0	ug/L							
trans-1,2-Dichloroethene	0.10	U	1.0	ug/L							
1,1-Dichloroethane	0.090	U	1.0	ug/L							
Vinyl acetate	0.19	U	2.0	ug/L							
2-Butanone	0.56	U	5.0	ug/L							
cis-1,2-Dichloroethene	0.14	U	1.0	ug/L							
Bromochloromethane	0.19	U	1.0	ug/L							
Chloroform	0.16	U	1.0	ug/L							
1,1,1-Trichloroethane	0.24	U	1.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
1,2-Dichloroethane	0.36	U	1.0	ug/L							
Benzene	0.12	U	1.0	ug/L							
Trichloroethene	0.23	U	1.0	ug/L							
1,2-Dichloropropane	0.18	U	1.0	ug/L							
Dibromomethane	0.14	U	1.0	ug/L							
Bromodichloromethane	0.19	U	0.40	ug/L							
cis-1,3-Dichloropropene	0.16	U	0.20	ug/L							
4-Methyl-2-pentanone	0.36	U	5.0	ug/L							
Toluene	0.15	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.18	U	0.20	ug/L							
1,1,2-Trichloroethane	0.24	U	1.0	ug/L							
Tetrachloroethene	0.25	U	1.0	ug/L							
2-Hexanone	0.24	U	5.0	ug/L							
Dibromochloromethane	0.18	U	1.0	ug/L							
1,2-Dibromoethane	0.19	U	1.0	ug/L							
Chlorobenzene	0.16	U	1.0	ug/L							
1,1,1,2-Tetrachloroethane	0.16	U	1.0	ug/L							
Ethylbenzene	0.17	U	1.0	ug/L							
Styrene	0.12	U	1.0	ug/L							
Bromoform	0.36	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.27	U	1.0	ug/L							
1,2,3-Trichloropropane	0.32	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.60	U	1.0	ug/L							
1,4-Dichlorobenzene	0.15	U	1.0	ug/L							
1,2-Dichlorobenzene	0.17	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.19	U	1.0	ug/L							
Xylenes (Total)	0.21	U	1.0	ug/L							
Surrogate: Dibromofluoromethane	*46*			*ug/L*	*50.0*		*91*	*69-111*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 7G30024 - EPA 5030B_MS

Blank (7G30024-BLK1) Continued Prepared: 07/30/2007 14:28 Analyzed: 07/30/2007 14:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Toluene-d8	*49*			*ug/L*	*50.0*		*99*	*85-120*			
Surrogate: 4-Bromofluorobenzene	*43*			*ug/L*	*50.0*		*87*	*67-125*			

LCS (7G30024-BS1) Prepared: 07/30/2007 14:28 Analyzed: 07/30/2007 14:59

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	14		1.0	ug/L	20.0		70	57-141			
Benzene	22		1.0	ug/L	20.0		109	76-116			
Trichloroethene	22		1.0	ug/L	20.0		111	81-118			
Toluene	20		1.0	ug/L	20.0		101	77-120			
Chlorobenzene	22		1.0	ug/L	20.0		108	75-115			

Matrix Spike (7G30024-MS1) Prepared: 07/30/2007 14:28 Analyzed: 07/30/2007 15:31

Source: C710851-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	12		1.0	ug/L	20.0	0.14 U	61	57-141			
Benzene	21		1.0	ug/L	20.0	0.12 U	104	76-116			
Trichloroethene	21		1.0	ug/L	20.0	0.23 U	104	81-118			
Toluene	20		1.0	ug/L	20.0	0.15 U	98	77-120			
Chlorobenzene	21		1.0	ug/L	20.0	0.16 U	106	75-115			

Matrix Spike Dup (7G30024-MSD1) Prepared: 07/30/2007 14:28 Analyzed: 07/30/2007 15:58

Source: C710851-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	13		1.0	ug/L	20.0	0.14 U	67	57-141	10	12	
Benzene	21		1.0	ug/L	20.0	0.12 U	103	76-116	1	14	
Trichloroethene	21		1.0	ug/L	20.0	0.23 U	107	81-118	2	11	
Toluene	19		1.0	ug/L	20.0	0.15 U	96	77-120	1	17	
Chlorobenzene	21		1.0	ug/L	20.0	0.16 U	104	75-115	2	12	

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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

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

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

Page 1 of 1

Client Name: Municipal Engineering Services (MU001)	Project Number: G07013.0 (Blanks)
Address: P.O. Box 97	Project Name/Desc: Iredell Co. LF - Blanks
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): Jon Pfohl, MESCO	Billing Contact: Accounts Payable
Sampler(s) Signature:	Facility # (if required):

Requested Analyses: 8260B Appendix 1

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C709717

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 1	Sample Comments
	EB	7/20/07	12:00		Water	3	X	
	FB	↓	12:10		Water	3	X	
	TB		ENCO Fill		Water	3	X	

Preservation (See Codes) (Combine as necessary)

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
CARY		[signature]	7/20/07 5:00	[signature]	7/20/07 1700
Comments: For all Iredell sites · Food Lion DI H_2O · D. Baker for EB		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	

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

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

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