OPERATION/CONSTRUCTION MANAGERS

Municipal Services

CIVIL/SANITARY ENGINEERS

Engineering Company, P.A.

October 30, 2006

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

Fac/Perm/Co ID# 49-03 Date 7/23/13 Doc ID# DIN

Re: Baseline Sampling
Iredell County C&D Phase 3
Permit No. 49-03

Mr. Wootton,

Municipal Engineering Services Company, P.A. (MESCO) completed the initial baseline sampling for Phase 3 of the Iredell County C&D landfill, which includes new monitoring wells MW-25, MW-26S and MW-26D. Currently waste is not being accepted in the Phase 3 portion of the C&D landfill, contingent on approval of the Permit to Operate. Thus, sampling occurred prior to the acceptance of waste in Phase 3. Samples were collected by MESCO on October 12, 2006 and were analyzed by Environmental Conservation Laboratories, Inc. (ENCO) for the Appendix I list of constituents.

Sample Result

Constituents detected during background sampling consisted of several inorganic metals. Table 1 shows detected constituents collected from the October 12, 2006 sampling. Detected inorganic metals can be attributed to naturally occurring conditions. Monitoring wells MW-1A and MW-1C serve as background wells for the facility. Inorganic constituents are routinely detected in these background wells. Table 2 summarizes historically detected inorganic metal detected in MW-1A and MW-1C.

PO Box 97, Garner, North Carolina 27529 (919) 772-5393
PO Box 1197, Morehead City, NC 28557 (252) 726-9481 PO Box 349, Boone, North Carolina 28607 (828) 262-1767

Slug Test Results

Slug test were performed on the monitoring wells to determine the hydraulic conductivities. Results of the hydraulic are attached.

Slug Test Summary

Monitoring Well	K (cm/sec)
MW-25	2.44×10^{-3}
MW-26S	5.96×10^{-5}
MW-26D	1.46×10^{-6}

If you have any questions please feel free to contact me at (919) 772-5393.

Sincerely,

MUNICIPAL ENGINEERING SERVICES CO., P.A.

Ethan J. Caldwell, PG

Enclosures

cc: Mr. David Lambert, Iredell County Solid Waste Director

Table 1: Phase 3 Baseline Sample Results
Iredell County Subtitle D Landfill

Well ID	Parameter Name[1]	Sample Date	Result	Unit	PQL[2]	NCGW2L[3]	Exceedance
MW-25	Cobalt	10/12/2006	0.0268	mg/L	0.01		
MW-25	Chromium	10/12/2006	0.0308	mg/L	0.01	0.05	
MW-25	Barium	10/12/2006	0.831	mg/L	0.5	2	
MW-25	Zinc	10/12/2006	0.323	mg/L	0.05	1.05	
MW-25	Vanadium	10/12/2006	0.15	mg/L	0.04		
MW-25	**Lead**	**10/12/2006**	**0.0173**	**mg/L**	**0.01**	**0.015**	**0.0023**
MW-26D	Zinc	10/12/2006	0.0672	mg/L	0.05	1.05	
MW-26D	Cobalt	10/12/2006	0.0123	mg/L	0.01		
MW-26D	Chromium	10/12/2006	0.0371	mg/L	0.01	0.05	
MW-26D	Vanadium	10/12/2006	0.0838	mg/L	0.04		
MW-26S	Chromium	10/12/2006	0.0127	mg/L	0.01	0.05	

[1] Table only contains detected constituents.
[2] PQL = Practical Quantitation Limit
[3] NCGW2L = North Carolina Ground Water 2L Standard

Table 2: Historic Background Inorganic Metals
Iredell County C&D Phase 3

Well ID	Parameter Name[1]	Sample Date	Result	Unit	PQL[2]	NCGW2L[3]	Exceedance
MW-1A	Copper, total	10/28/1993	0.027	mg/l	0.01	1	
MW-1A	Vanadium	10/28/1993	0.032	mg/l	0.01		
MW-1A	Lead	10/28/1993	0.007	mg/l	0.005	0.015	
MW-1A	Zinc	10/28/1993	0.104	mg/l	0.01	1.05	
MW-1A	Barium, total	10/28/1993	0.147	mg/l	0.01	2	
MW-1A	Copper, total	09/19/1994	0.12	mg/l	0.1	1	
MW-1A	Vanadium	09/19/1994	0.17	mg/l	0.05		
MW-1A	Zinc	09/19/1994	0.22	mg/l	0.05	1.05	
MW-1A	**Lead**	**09/19/1994**	**0.029**	**mg/l**	**0.01**	**0.015**	**0.014**
MW-1A	Chromium	09/19/1994	0.028	mg/l	0.005	0.05	
MW-1A	Barium, total	09/19/1994	0.46	mg/l	0.1	2	
MW-1A	Cobalt, total	01/06/1995	0.02	mg/l	0.01		
MW-1A	Vanadium	01/06/1995	0.095	mg/l	0.04		
MW-1A	Zinc	01/06/1995	0.207	mg/l	0.05	1.05	
MW-1A	Lead	01/06/1995	0.014	mg/l	0.01	0.015	
MW-1A	Chromium	01/06/1995	0.02	mg/l	0.01	0.05	
MW-1A	Beryllium, total	01/06/1995	0.004	mg/l	0.002		
MW-1A	Cobalt, total	03/06/1995	0.029	mg/l	0.01		
MW-1A	Vanadium	03/06/1995	0.125	mg/l	0.04		
MW-1A	Zinc	03/06/1995	0.218	mg/l	0.05	1.05	
MW-1A	**Lead**	**03/06/1995**	**0.022**	**mg/l**	**0.01**	**0.015**	**0.007**
MW-1A	Chromium	03/06/1995	0.03	mg/l	0.01	0.05	
MW-1A	Beryllium, total	03/06/1995	0.005	mg/l	0.002		
MW-1A	Chromium	12/20/1995	0.015	mg/l	0.002	0.05	
MW-1A	Copper, total	12/20/1995	0.021	mg/l	0.01	1	
MW-1A	Vanadium	12/20/1995	0.02	mg/l	0.01		
MW-1A	Zinc	12/20/1995	0.05	mg/l	0.05	1.05	
MW-1A	Lead	12/20/1995	0.007	mg/l	0.005	0.015	
MW-1A	Thallium, total	12/20/1995	0.001	mg/l	0.001		
MW-1A	Beryllium, total	12/20/1995	0.002	mg/l	0.001		
MW-1A	Barium, total	12/20/1995	0.18	mg/l	0.02	2	
MW-1A	Zinc	07/10/1996	0.021	mg/l	0.01	1.05	
MW-1A	Barium, total	07/10/1996	0.077	mg/l	0.01	2	
MW-1A	Chromium	07/10/1996	0.005	mg/l	0.002	0.05	
MW-1A	Copper, total	12/06/1996	0.012	mg/l	0.01	1	
MW-1A	Vanadium	12/06/1996	0.007	mg/l	0.005		
MW-1A	Zinc	12/06/1996	0.14	mg/l	0.01	1.05	
MW-1A	Barium, total	12/06/1996	0.27	mg/l	0.01	2	
MW-1A	Cobalt, total	12/06/1996	0.006	mg/l	0.002		
MW-1A	Chromium	12/06/1996	0.005	mg/l	0.002	0.05	
MW-1A	Cobalt, total	07/01/1997	0.023	mg/l	0.006		
MW-1A	Copper, total	07/01/1997	0.11	mg/l	0.01	1	
MW-1A	Vanadium	07/01/1997	0.61	mg/l	0.15		
MW-1A	Zinc	07/01/1997	0.25	mg/l	0.01	1.05	
MW-1A	**Lead**	**07/01/1997**	**0.019**	**mg/l**	**0.005**	**0.015**	**0.004**
MW-1A	Barium, total	07/01/1997	0.48	mg/l	0.01	2	
MW-1A	Chromium	07/01/1997	0.03	mg/l	0.004	0.05	
MW-1A	Beryllium, total	07/01/1997	0.004	mg/l	0.001		
MW-1A	Cobalt, total	12/10/1997	0.018	mg/l	0.002		

Table 2: Historic Background Inorganic Metals
Iredell County C&D Phase 3

Well ID	Parameter Name[1]	Sample Date	Result	Unit	PQL[2]	NCGW2L[3]	Exceedance
MW-1A	Copper, total	12/10/1997	0.063	mg/l	0.01	1	
MW-1A	Vanadium	12/10/1997	0.11	mg/l	0.05		
MW-1A	Zinc	12/10/1997	0.19	mg/l	0.01	1.05	
MW-1A	**Lead**	**12/10/1997**	**0.023**	**mg/l**	**0.005**	**0.015**	**0.008**
MW-1A	Barium, total	12/10/1997	0.31	mg/l	0.01	2	
MW-1A	Chromium	12/10/1997	0.019	mg/l	0.002	0.05	
MW-1A	Beryllium, total	12/10/1997	0.003	mg/l	0.001		
MW-1A	Zinc	06/30/1998	0.17	mg/l	0.01	1.05	
MW-1A	Cobalt, total	06/30/1998	0.044	mg/l	0.002		
MW-1A	Chromium	06/30/1998	0.03	mg/l	0.002	0.05	
MW-1A	Vanadium	06/30/1998	0.16	mg/l	0.015		
MW-1A	Copper, total	06/30/1998	0.099	mg/l	0.01	1	
MW-1A	Barium, total	06/30/1998	0.37	mg/l	0.01	2	
MW-1A	Arsenic, total	06/30/1998	0.0065	mg/l	0.005	0.05	
MW-1A	**Cadmium**	**06/30/1998**	**0.012**	**mg/l**	**0.01**	**0.0018**	**0.0103**
MW-1A	**Lead**	**06/30/1998**	**0.031**	**mg/l**	**0.005**	**0.015**	**0.016**
MW-1A	Beryllium, total	06/30/1998	0.012	mg/l	0.0025		
MW-1A	Zinc	10/26/1998	0.35	mg/l	0.05	1.05	
MW-1A	Cobalt, total	10/26/1998	0.019	mg/l	0.002		
MW-1A	Chromium	10/26/1998	0.017	mg/l	0.002	0.05	
MW-1A	Vanadium	10/26/1998	0.078	mg/l	0.01		
MW-1A	Beryllium, total	10/26/1998	0.002	mg/l	0.001		
MW-1A	Barium, total	10/26/1998	0.56	mg/l	0.05	2	
MW-1A	Copper, total	10/26/1998	0.095	mg/l	0.05	1	
MW-1A	Lead	10/26/1998	0.011	mg/l	0.005	0.015	
MW-1A	**Cadmium**	**10/26/1998**	**0.011**	**mg/l**	**0.002**	**0.0018**	**0.0093**
MW-1A	Zinc	12/17/1998	0.1	mg/l	0.01	1.05	
MW-1A	Cobalt, total	12/17/1998	0.026	mg/l	0.002		
MW-1A	Chromium	12/17/1998	0.037	mg/l	0.002	0.05	
MW-1A	Vanadium	12/17/1998	0.17	mg/l	0.02		
MW-1A	Beryllium, total	12/17/1998	0.0036	mg/l	0.001		
MW-1A	Barium, total	12/17/1998	0.34	mg/l	0.01	2	
MW-1A	Copper, total	12/17/1998	0.13	mg/l	0.01	1	
MW-1A	**Lead**	**12/17/1998**	**0.034**	**mg/l**	**0.005**	**0.015**	**0.019**
MW-1A	**Cadmium**	**12/17/1998**	**0.048**	**mg/l**	**0.02**	**0.0018**	**0.0463**
MW-1A	Zinc	07/07/1999	0.048	mg/l	0.01	1.05	
MW-1A	Cobalt, total	07/07/1999	0.0083	mg/l	0.005		
MW-1A	Chromium	07/07/1999	0.014	mg/l	0.002	0.05	
MW-1A	Vanadium	07/07/1999	0.023	mg/l	0.005		
MW-1A	Barium, total	07/07/1999	0.13	mg/l	0.005	2	
MW-1A	Nickel	07/07/1999	0.008	mg/l	0.005	0.1	
MW-1A	Copper, total	07/07/1999	0.0097	mg/l	0.002	1	
MW-1A	Lead	07/07/1999	0.0082	mg/l	0.005	0.015	
MW-1A	**Cadmium**	**07/07/1999**	**0.002**	**mg/l**	**0.001**	**0.0018**	**0.0003**
MW-1A	Copper, total	12/22/1999	0.0096	mg/l	0.002	1	
MW-1A	Vanadium	12/22/1999	0.016	mg/l	0.005		
MW-1A	Mercury	12/22/1999	0.0003	mg/l	0.0002	0.0011	
MW-1A	Zinc	12/22/1999	0.02	mg/l	0.01	1.05	
MW-1A	Barium, total	12/22/1999	0.1	mg/l	0.005	2	

Table 2: Historic Background Inorganic Metals
Iredell County C&D Phase 3

Well ID	Parameter Name[1]	Sample Date	Result	Unit	PQL[2]	NCGW2L[3]	Exceedance
MW-1A	Cobalt, total	07/12/2000	0.013	mg/l	0.005		
MW-1A	Chromium	07/12/2000	0.019	mg/l	0.002	0.05	
MW-1A	**Cadmium**	**07/12/2000**	**0.003**	**mg/l**	**0.001**	**0.0018**	**0.0013**
MW-1A	Zinc	07/12/2000	0.12	mg/l	0.01	1.05	
MW-1A	Vanadium	07/12/2000	0.062	mg/l	0.005		
MW-1A	Arsenic, total	07/12/2000	0.006	mg/l	0.005	0.05	
MW-1A	Nickel	07/12/2000	0.011	mg/l	0.005	0.1	
MW-1A	Lead	07/12/2000	0.0077	mg/l	0.005	0.015	
MW-1A	Copper, total	07/12/2000	0.037	mg/l	0.002	1	
MW-1A	Barium, total	07/12/2000	0.22	mg/l	0.005	2	
MW-1A	Beryllium, total	07/12/2000	0.0014	mg/l	0.001		
MW-1A	Cobalt, total	01/15/2001	0.0068	mg/l	0.005		
MW-1A	Copper, total	01/15/2001	0.015	mg/l	0.002	1	
MW-1A	Vanadium	01/15/2001	0.026	mg/l	0.005		
MW-1A	Zinc	01/15/2001	0.069	mg/l	0.01	1.05	
MW-1A	Nickel	01/15/2001	0.0066	mg/l	0.005	0.1	
MW-1A	Barium, total	01/15/2001	0.14	mg/l	0.005	2	
MW-1A	Chromium	01/15/2001	0.014	mg/l	0.002	0.05	
MW-1A	**Cadmium**	**01/15/2001**	**0.0035**	**mg/l**	**0.001**	**0.0018**	**0.0018**
MW-1A	Cobalt, total	07/17/2001	0.0071	mg/l	0.005		
MW-1A	Copper, total	07/17/2001	0.01	mg/l	0.002	1	
MW-1A	Vanadium	07/17/2001	0.019	mg/l	0.005		
MW-1A	Zinc	07/17/2001	0.039	mg/l	0.01	1.05	
MW-1A	Nickel	07/17/2001	0.0068	mg/l	0.005	0.1	
MW-1A	Barium, total	07/17/2001	0.096	mg/l	0.005	2	
MW-1A	Chromium	07/17/2001	0.0091	mg/l	0.002	0.05	
MW-1A	**Cadmium**	**07/17/2001**	**0.0029**	**mg/l**	**0.001**	**0.0018**	**0.0012**
MW-1A	Chromium	01/03/2002	0.006	mg/l	0.002	0.05	
MW-1A	Copper, total	01/03/2002	0.0063	mg/l	0.002	1	
MW-1A	Vanadium	01/03/2002	0.017	mg/l	0.005		
MW-1A	Zinc	01/03/2002	0.036	mg/l	0.01	1.05	
MW-1A	Lead	01/03/2002	0.0033	mg/l	0.003	0.015	
MW-1A	Nickel	01/03/2002	0.0052	mg/l	0.005	0.1	
MW-1A	**Cadmium**	**01/03/2002**	**0.0024**	**mg/l**	**0.001**	**0.0018**	**0.0007**
MW-1A	Barium, total	01/03/2002	0.11	mg/l	0.005	2	
MW-1A	Zinc	07/16/2002	0.031	mg/l	0.01	1.05	
MW-1A	Cobalt, total	07/16/2002	0.0061	mg/l	0.005		
MW-1A	Chromium	07/16/2002	0.0073	mg/l	0.002	0.05	
MW-1A	Vanadium	07/16/2002	0.021	mg/l	0.005		
MW-1A	Barium, total	07/16/2002	0.12	mg/l	0.005	2	
MW-1A	Nickel	07/16/2002	0.0064	mg/l	0.005	0.1	
MW-1A	Copper, total	07/16/2002	0.012	mg/l	0.002	1	
MW-1A	Lead	07/16/2002	0.0059	mg/l	0.005	0.015	
MW-1A	**Cadmium**	**07/16/2002**	**0.004**	**mg/l**	**0.001**	**0.0018**	**0.0023**
MW-1A	Cobalt, total	01/21/2003	0.0061	mg/l	0.005		
MW-1A	Copper, total	01/21/2003	0.0082	mg/l	0.002	1	
MW-1A	Vanadium	01/21/2003	0.019	mg/l	0.005		
MW-1A	Zinc	01/21/2003	0.021	mg/l	0.01	1.05	
MW-1A	Nickel	01/21/2003	0.0069	mg/l	0.005	0.1	

Table 2: Historic Background Inorganic Metals
Iredell County C&D Phase 3

Well ID	Parameter Name[1]	Sample Date	Result	Unit	PQL[2]	NCGW2L[3]	Exceedance
MW-1A	Barium, total	01/21/2003	0.086	mg/l	0.005	2	
MW-1A	Chromium	01/21/2003	0.013	mg/l	0.002	0.05	
MW-1A	**Cadmium**	**01/21/2003**	**0.0044**	**mg/l**	**0.001**	**0.0018**	**0.0027**
MW-1A	Chromium	07/16/2003	0.0066	mg/l	0.002	0.05	
MW-1A	Vanadium	07/16/2003	0.0063	mg/l	0.005		
MW-1A	Zinc	07/16/2003	0.025	mg/l	0.01	1.05	
MW-1A	Nickel	07/16/2003	0.0062	mg/l	0.005	0.1	
MW-1A	**Cadmium**	**07/16/2003**	**0.01**	**mg/l**	**0.001**	**0.0018**	**0.0083**
MW-1A	Barium, total	07/16/2003	0.1	mg/l	0.005	2	
MW-1A	Cobalt, total	01/13/2004	0.011	mg/l	0.01		
MW-1A	**Cadmium**	**01/13/2004**	**0.0018**	**mg/l**	**0.001**	**0.0018**	**0**
MW-1A	**Cadmium**	**08/04/2004**	**0.0019**	**mg/l**	**0.001**	**0.0018**	**0.0002**
MW-1A	Cadmium	01/26/2005	0.0011	mg/l	0.001	0.0018	
MW-1A	**Cadmium**	**07/20/2005**	**0.0025**	**mg/l**	**0.001**	**0.0018**	**0.0008**
MW-1C	Zinc	01/13/2004	0.06	mg/l	0.05	1.05	

[1] Table only contains detected constituents.
[2] PQL = Practical Quantitation Limit
[3] NCGW2L = North Carolina Ground Water 2L Standard

MW-25

Initial offset in logger reading (feet):	0.125	Date:	06/06/2005
Offset increment in logger reading (feet/sec):	-0.000061		
Initial depth to water table (feet):	19.27		
Depth of probe below water table (feet):	7.492		

Time	Time (sec)	Elapsed Time (sec)	Logger Reading (ft)	Adjusted Reading (ft)	dh (ft)	Log of dh
6/6/2005 9:20:19	33619.0	0.0	2.282	2.179	5.313	0.72533
6/6/2005 9:20:20	33620.0	1.0	2.423	2.320	5.172	0.71365
6/6/2005 9:20:21	33621.5	2.5	2.574	2.471	5.021	0.70077
6/6/2005 9:20:23	33623.0	4.0	2.711	2.608	4.884	0.68875
6/6/2005 9:20:24	33624.5	5.5	2.847	2.744	4.748	0.67647
6/6/2005 9:20:26	33626.0	7.0	2.979	2.876	4.615	0.66422
6/6/2005 9:20:27	33627.5	8.5	3.102	2.999	4.492	0.65248
6/6/2005 9:20:29	33629.0	10.0	3.227	3.124	4.367	0.64021
6/6/2005 9:20:30	33630.5	11.5	3.349	3.247	4.245	0.62790
6/6/2005 9:20:32	33632.0	13.0	3.469	3.367	4.125	0.61544
6/6/2005 9:20:33	33633.5	14.5	3.585	3.483	4.009	0.60304
6/6/2005 9:20:35	33635.0	16.0	3.696	3.594	3.898	0.59084
6/6/2005 9:20:36	33636.5	17.5	3.809	3.707	3.785	0.57805
6/6/2005 9:20:38	33638.0	19.0	3.922	3.820	3.672	0.56487
6/6/2005 9:20:39	33639.5	20.5	4.035	3.933	3.559	0.55129
6/6/2005 9:20:41	33641.0	22.0	4.141	4.039	3.453	0.53814
6/6/2005 9:20:42	33642.5	23.5	4.245	4.143	3.348	0.52485
6/6/2005 9:20:44	33644.0	25.0	4.346	4.244	3.247	0.51154
6/6/2005 9:20:45	33645.5	26.5	4.449	4.347	3.144	0.49752
6/6/2005 9:20:47	33647.0	28.0	4.548	4.447	3.045	0.48362
6/6/2005 9:20:48	33648.0	29.0	4.619	4.518	2.974	0.47336
6/6/2005 9:20:49	33649.5	30.5	4.716	4.615	2.877	0.45895
6/6/2005 9:20:51	33651.0	32.0	4.808	4.707	2.785	0.44482
6/6/2005 9:20:52	33652.5	33.5	4.892	4.791	2.701	0.43150
6/6/2005 9:20:54	33654.0	35.0	4.961	4.860	2.632	0.42025
6/6/2005 9:20:56	33656.0	37.0	5.022	4.921	2.571	0.41004
6/6/2005 9:21:00	33660.0	41.0	5.083	4.982	2.509	0.39957
6/6/2005 9:21:05	33665.5	46.5	5.142	5.042	2.450	0.38918
6/6/2005 9:21:11	33671.5	52.5	5.199	5.099	2.393	0.37889
6/6/2005 9:21:17	33677.5	58.5	5.255	5.155	2.336	0.36854
6/6/2005 9:21:22	33682.5	63.5	5.310	5.211	2.281	0.35813
6/6/2005 9:21:27	33687.5	68.5	5.364	5.265	2.227	0.34767
6/6/2005 9:21:32	33692.0	73.0	5.420	5.321	2.170	0.33655
6/6/2005 9:21:34	33694.5	75.5	5.484	5.385	2.106	0.32352
6/6/2005 9:21:35	33695.5	76.5	5.533	5.435	2.057	0.31329
6/6/2005 9:21:37	33697.0	78.0	5.587	5.489	2.003	0.30171
6/6/2005 9:21:38	33698.5	79.5	5.641	5.543	1.949	0.28982
6/6/2005 9:21:40	33700.0	81.0	5.696	5.598	1.894	0.27737
6/6/2005 9:21:41	33701.5	82.5	5.752	5.654	1.838	0.26432
6/6/2005 9:21:43	33703.0	84.0	5.806	5.708	1.784	0.25134
6/6/2005 9:21:44	33704.5	85.5	5.858	5.760	1.732	0.23847
6/6/2005 9:21:46	33706.0	87.0	5.913	5.815	1.677	0.22443
6/6/2005 9:21:47	33707.5	88.5	5.962	5.864	1.628	0.21152
6/6/2005 9:21:49	33709.0	90.0	6.009	5.911	1.580	0.19877

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Time	Time (sec)	Elapsed Time (sec)	Logger Reading (ft)	Adjusted Reading (ft)	dh (ft)	Log of dh
6/6/2005 9:21:50	33710.5	91.5	6.058	5.960	1.531	0.18507
6/6/2005 9:21:52	33712.0	93.0	6.101	6.004	1.488	0.17267
6/6/2005 9:21:53	33713.5	94.5	6.143	6.046	1.446	0.16021
6/6/2005 9:21:55	33715.0	96.0	6.186	6.089	1.403	0.14707
6/6/2005 9:21:56	33716.5	97.5	6.223	6.126	1.366	0.13544
6/6/2005 9:21:58	33718.0	99.0	6.259	6.162	1.330	0.12381
6/6/2005 9:21:59	33719.5	100.5	6.294	6.197	1.295	0.11219
6/6/2005 9:22:01	33721.0	102.0	6.327	6.230	1.262	0.10095
6/6/2005 9:22:02	33722.5	103.5	6.360	6.263	1.229	0.08941
6/6/2005 9:22:04	33724.0	105.0	6.393	6.296	1.195	0.07755
6/6/2005 9:22:06	33726.0	107.0	6.431	6.334	1.157	0.06347
6/6/2005 9:22:07	33727.5	108.5	6.459	6.363	1.129	0.05280
6/6/2005 9:22:09	33729.0	110.0	6.485	6.389	1.103	0.04265
6/6/2005 9:22:10	33730.5	111.5	6.511	6.415	1.077	0.03226
6/6/2005 9:22:12	33732.0	113.0	6.537	6.441	1.051	0.02161
6/6/2005 9:22:14	33734.0	115.0	6.567	6.471	1.021	0.00898
6/6/2005 9:22:15	33735.5	116.5	6.593	6.497	0.995	-0.00227
6/6/2005 9:22:17	33737.0	118.0	6.617	6.521	0.971	-0.01291
6/6/2005 9:22:19	33739.0	120.0	6.643	6.547	0.945	-0.02476
6/6/2005 9:22:21	33741.0	122.0	6.668	6.572	0.919	-0.03647
6/6/2005 9:22:22	33742.5	123.5	6.690	6.594	0.897	-0.04703
6/6/2005 9:22:24	33744.5	125.5	6.713	6.618	0.874	-0.05837
6/6/2005 9:22:26	33746.5	127.5	6.737	6.642	0.850	-0.07052
6/6/2005 9:22:28	33748.5	129.5	6.758	6.663	0.829	-0.08145
6/6/2005 9:22:30	33750.5	131.5	6.779	6.684	0.808	-0.09266
6/6/2005 9:22:32	33752.5	133.5	6.800	6.705	0.787	-0.10416
6/6/2005 9:22:34	33754.5	135.5	6.819	6.724	0.768	-0.11485
6/6/2005 9:22:37	33757.0	138.0	6.838	6.743	0.748	-0.12582
6/6/2005 9:22:41	33761.0	142.0	6.859	6.765	0.727	-0.13833
6/6/2005 9:22:44	33764.0	145.0	6.876	6.782	0.710	-0.14871
6/6/2005 9:22:48	33768.0	149.0	6.892	6.798	0.694	-0.15876
6/6/2005 9:22:52	33772.5	153.5	6.909	6.815	0.677	-0.16971
6/6/2005 9:22:59	33779.0	160.0	6.925	6.832	0.660	-0.18037
6/6/2005 9:23:07	33787.5	168.5	6.942	6.849	0.643	-0.19205
6/6/2005 9:23:17	33797.0	178.0	6.958	6.866	0.626	-0.20341
6/6/2005 9:23:26	33806.0	187.0	6.972	6.880	0.611	-0.21362
6/6/2005 9:23:35	33815.0	196.0	6.986	6.895	0.597	-0.22408
6/6/2005 9:23:44	33824.0	205.0	7.000	6.909	0.582	-0.23480
6/6/2005 9:23:53	33833.0	214.0	7.017	6.927	0.565	-0.24809
6/6/2005 9:24:04	33844.0	225.0	7.031	6.942	0.550	-0.25952
6/6/2005 9:24:13	33853.0	234.0	7.043	6.954	0.538	-0.26954
6/6/2005 9:24:20	33860.0	241.0	7.055	6.967	0.525	-0.27970
6/6/2005 9:24:30	33870.0	251.0	7.069	6.981	0.511	-0.29195
6/6/2005 9:24:40	33880.5	261.5	7.080	6.993	0.499	-0.30197
6/6/2005 9:24:48	33888.5	269.5	7.092	7.005	0.486	-0.31298
6/6/2005 9:24:57	33897.0	278.0	7.104	7.018	0.474	-0.32431
6/6/2005 9:25:06	33906.0	287.0	7.116	7.030	0.461	-0.33597
6/6/2005 9:25:18	33918.0	299.0	7.130	7.045	0.447	-0.35006

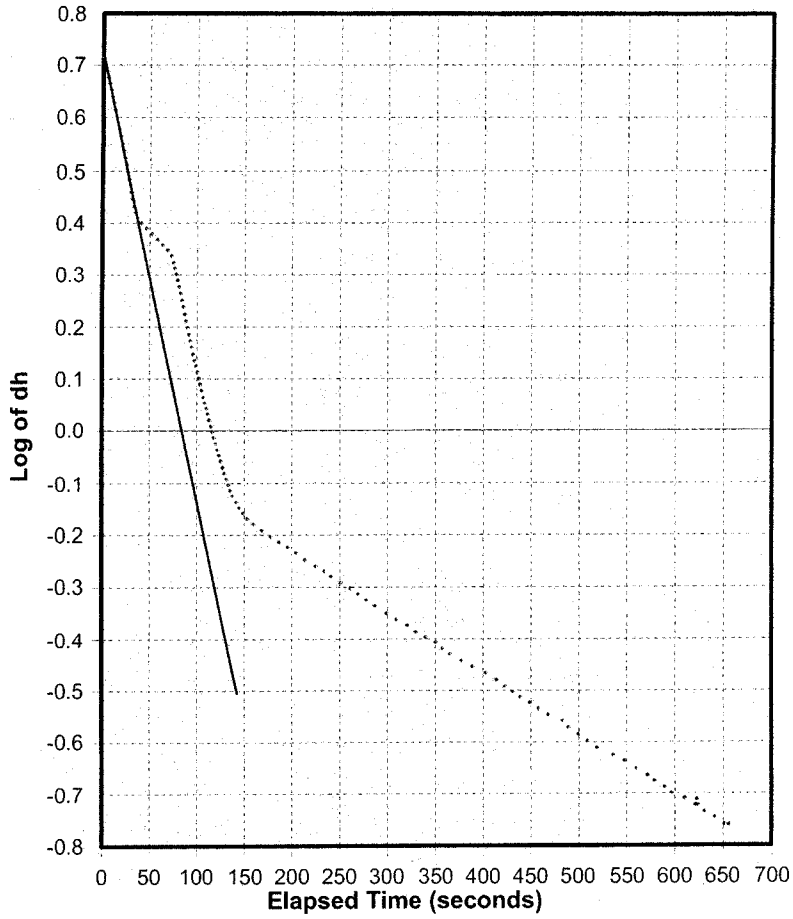
MW-25

Time	Time (sec)	Elapsed Time (sec)	Logger Reading (ft)	Adjusted Reading (ft)	dh (ft)	Log of dh
6/6/2005 9:25:28	33928.5	309.5	7.141	7.057	0.435	-0.36153
6/6/2005 9:25:39	33939.5	320.5	7.151	7.067	0.424	-0.37232
6/6/2005 9:25:49	33949.0	330.0	7.163	7.080	0.412	-0.38540
6/6/2005 9:25:59	33959.0	340.0	7.172	7.090	0.402	-0.39566
6/6/2005 9:26:09	33969.5	350.5	7.181	7.099	0.392	-0.40620
6/6/2005 9:26:17	33977.0	358.0	7.191	7.110	0.382	-0.41793
6/6/2005 9:26:24	33984.5	365.5	7.200	7.119	0.373	-0.42882
6/6/2005 9:26:37	33997.0	378.0	7.210	7.130	0.362	-0.44155
6/6/2005 9:26:48	34008.0	389.0	7.219	7.140	0.352	-0.45332
6/6/2005 9:27:02	34022.0	403.0	7.228	7.150	0.342	-0.46565
6/6/2005 9:27:13	34033.0	414.0	7.238	7.160	0.332	-0.47941
6/6/2005 9:27:22	34042.0	423.0	7.247	7.170	0.322	-0.49211
6/6/2005 9:27:30	34050.5	431.5	7.254	7.177	0.315	-0.50237
6/6/2005 9:27:38	34058.0	439.0	7.261	7.185	0.307	-0.51279
6/6/2005 9:27:48	34068.0	449.0	7.268	7.192	0.299	-0.52370
6/6/2005 9:27:57	34077.0	458.0	7.275	7.200	0.292	-0.53479
6/6/2005 9:28:07	34087.0	468.0	7.282	7.208	0.284	-0.54626
6/6/2005 9:28:22	34102.5	483.5	7.289	7.215	0.276	-0.55858
6/6/2005 9:28:28	34108.0	489.0	7.297	7.224	0.268	-0.57189
6/6/2005 9:28:38	34118.5	499.5	7.304	7.231	0.260	-0.58445
6/6/2005 9:28:48	34128.0	509.0	7.311	7.239	0.253	-0.59729
6/6/2005 9:28:58	34138.0	519.0	7.318	7.247	0.245	-0.61057
6/6/2005 9:29:15	34155.0	536.0	7.325	7.255	0.237	-0.62505
6/6/2005 9:29:27	34167.0	548.0	7.330	7.260	0.231	-0.63568
6/6/2005 9:29:39	34179.5	560.5	7.337	7.268	0.224	-0.65051
6/6/2005 9:29:50	34190.5	571.5	7.343	7.275	0.217	-0.66367
6/6/2005 9:29:58	34198.0	579.0	7.348	7.280	0.211	-0.67474
6/6/2005 9:30:08	34208.5	589.5	7.353	7.286	0.206	-0.68648
6/6/2005 9:30:15	34215.5	596.5	7.358	7.291	0.200	-0.69809
6/6/2005 9:30:29	34229.0	610.0	7.362	7.296	0.196	-0.70868
6/6/2005 9:30:40	34240.5	621.5	7.367	7.302	0.190	-0.72153
6/6/2005 9:30:42	34242.0	623.0	7.362	7.297	0.195	-0.71045
6/6/2005 9:30:43	34243.0	624.0	7.367	7.302	0.190	-0.72188
6/6/2005 9:30:50	34250.0	631.0	7.372	7.307	0.184	-0.73449
6/6/2005 9:31:00	34260.5	641.5	7.376	7.312	0.180	-0.74557
6/6/2005 9:31:10	34270.5	651.5	7.381	7.318	0.174	-0.75936
6/6/2005 9:31:15	34275.0	656.0	7.381	7.318	0.174	-0.76004

MW-25

Slug Test by Bouwer and Rice

Displacement Method:	Pump	
Well depth:	24.93	ft
Stick up height:	3.10	ft
Depth to sand pack:	7.00	ft
Depth to screened interval:	9.93	ft
Well diameter:	2.00	in
Diameter of annular space:	8.50	in
Initial depth to water table from top of pipe:	19.27	ft
Initial Head Change:	5.31	ft
Total well length:	28.03	ft
Radius of well casing:	0.0833	ft
Assumed porosity of sand/gravel pack:	30%	
Adjusted radius of well casing:	0.2061	ft
r_c:	0.2061	ft
Radius of gravel pack (r_w):	0.3542	ft
Screened interval:	15.00	ft
Length of open section (L_e):	8.76	ft
L_e / r_w:	24.7341	
A (dimensionless):	2.389	
B (dimensionless):	0.400	
Drawdown at time = 0 (y_0):	4.01	ft
Drawdown at time = t (y_t):	2.51	ft
Elapsed Time between y_0 and y_t (t):	26.5	sec
Initial water column in well (L_w):	8.76	ft
$\ln(R_e/r_w)$ =	1.86	
K =	7.99E-05	ft/sec
	2.44E-03	**cm/sec**
	2520.92	ft/yr



Water above sand pack:	No
%Duration below sand pack:	100.00%
Water above screen:	No
%Duration below screen:	100.00%

MW-26D

Initial offset in logger reading (feet):	0.048	Date:	08/17/2005
Offset increment in logger reading (feet/sec):	0.000000		
Initial depth to water table (feet):	63.61		
Depth of probe below water table (feet):	5.321		

Time	Time (sec)	Elapsed Time (sec)	Logger Reading (ft)	Adjusted Reading (ft)	dh (ft)	Log of dh
8/17/2005 19:26:36	69996.5	0.0	8.25	8.203	2.882	0.45971
8/17/2005 19:26:36	69996.0	0.5	8.26	8.210	2.889	0.46076
8/17/2005 19:26:43	70003.0	6.5	8.27	8.217	2.896	0.46181
8/17/2005 19:27:00	70020.5	24.0	8.26	8.209	2.888	0.46061
8/17/2005 19:27:48	70068.5	72.0	8.25	8.200	2.879	0.45926
8/17/2005 19:29:21	70161.5	165.0	8.24	8.192	2.871	0.45805
8/17/2005 19:30:32	70232.0	235.5	8.23	8.185	2.864	0.45699
8/17/2005 19:31:42	70302.5	306.0	8.23	8.178	2.857	0.45592
8/17/2005 19:34:12	70452.5	456.0	8.22	8.171	2.850	0.45486
8/17/2005 19:35:00	70500.0	503.5	8.21	8.163	2.842	0.45364
8/17/2005 19:36:42	70602.5	606.0	8.2	8.156	2.835	0.45257
8/17/2005 19:38:30	70710.0	713.5	8.2	8.148	2.827	0.45134
8/17/2005 19:40:44	70844.5	848.0	8.19	8.140	2.819	0.45011
8/17/2005 19:42:04	70924.5	928.0	8.18	8.132	2.811	0.44887
8/17/2005 19:43:55	71035.5	1039.0	8.17	8.124	2.803	0.44764
8/17/2005 19:45:57	71157.5	1161.0	8.16	8.116	2.795	0.44640
8/17/2005 19:47:28	71248.5	1252.0	8.16	8.109	2.788	0.44531
8/17/2005 19:49:27	71367.5	1371.0	8.15	8.101	2.780	0.44406
8/17/2005 19:51:32	71492.0	1495.5	8.14	8.094	2.773	0.44296
8/17/2005 19:53:48	71628.0	1631.5	8.13	8.086	2.765	0.44171
8/17/2005 19:55:33	71733.0	1736.5	8.13	8.078	2.757	0.44045
8/17/2005 19:57:40	71860.5	1864.0	8.12	8.070	2.749	0.43919
8/17/2005 19:59:45	71985.0	1988.5	8.11	8.061	2.740	0.43776
8/17/2005 20:02:44	72164.0	2167.5	8.1	8.053	2.732	0.43650
8/17/2005 20:04:05	72245.0	2248.5	8.09	8.046	2.725	0.43538
8/17/2005 20:06:11	72371.0	2374.5	8.09	8.039	2.718	0.43426
8/17/2005 20:07:28	72448.0	2451.5	8.08	8.032	2.711	0.43314
8/17/2005 20:10:24	72624.5	2628.0	8.07	8.023	2.702	0.43170
8/17/2005 20:12:06	72726.5	2730.0	8.06	8.016	2.695	0.43057
8/17/2005 20:14:05	72845.0	2848.5	8.06	8.009	2.688	0.42944
8/17/2005 20:16:28	72988.0	2991.5	8.05	8.002	2.681	0.42831
8/17/2005 20:17:54	73074.0	3077.5	8.04	7.995	2.674	0.42718
8/17/2005 20:20:12	73212.0	3215.5	8.04	7.988	2.667	0.42604
8/17/2005 20:22:15	73335.0	3338.5	8.03	7.981	2.660	0.42490
8/17/2005 20:24:41	73481.0	3484.5	8.02	7.974	2.653	0.42375
8/17/2005 20:26:26	73586.0	3589.5	8.02	7.967	2.646	0.42260
8/17/2005 20:29:00	73740.0	3743.5	8.01	7.960	2.639	0.42145
8/17/2005 20:30:50	73850.5	3854.0	8	7.953	2.632	0.42030
8/17/2005 20:30:52	73852.0	3855.5	8.01	7.960	2.639	0.42145
8/17/2005 20:31:18	73878.5	3882.0	8	7.953	2.632	0.42030
8/17/2005 20:33:20	74000.0	4003.5	7.99	7.946	2.625	0.41914
8/17/2005 20:35:51	74151.0	4154.5	7.99	7.939	2.618	0.41798
8/17/2005 20:37:28	74248.5	4252.0	7.98	7.932	2.611	0.41682
8/17/2005 20:39:55	74395.0	4398.5	7.97	7.925	2.604	0.41566
8/17/2005 20:42:01	74521.0	4524.5	7.97	7.918	2.597	0.41449

MW-26D

Time	Time (sec)	Elapsed Time (sec)	Logger Reading (ft)	Adjusted Reading (ft)	dh (ft)	Log of dh
8/17/2005 20:42:07	74527.0	4530.5	7.97	7.925	2.604	0.41566
8/17/2005 20:42:32	74552.5	4556.0	7.97	7.918	2.597	0.41449
8/17/2005 20:44:52	74692.5	4696.0	7.96	7.911	2.590	0.41332
8/17/2005 20:47:25	74845.5	4849.0	7.95	7.904	2.583	0.41214
8/17/2005 20:49:28	74968.5	4972.0	7.95	7.897	2.576	0.41096
8/17/2005 20:52:06	75126.5	5130.0	7.94	7.890	2.569	0.40978
8/17/2005 20:54:12	75252.0	5255.5	7.93	7.883	2.562	0.40859
8/17/2005 20:57:10	75430.0	5433.5	7.92	7.876	2.555	0.40741
8/17/2005 20:59:12	75552.5	5556.0	7.92	7.869	2.548	0.40621
8/17/2005 21:01:54	75714.5	5718.0	7.91	7.862	2.541	0.40502
8/17/2005 21:04:37	75877.0	5880.5	7.9	7.855	2.534	0.40382
8/17/2005 21:06:42	76002.5	6006.0	7.9	7.848	2.527	0.40262
8/17/2005 21:09:39	76179.0	6182.5	7.89	7.841	2.520	0.40142
8/17/2005 21:12:07	76327.5	6331.0	7.88	7.834	2.513	0.40021
8/17/2005 21:14:56	76496.5	6500.0	7.88	7.827	2.506	0.39900
8/17/2005 21:16:43	76603.5	6607.0	7.87	7.820	2.499	0.39778
8/17/2005 21:19:32	76772.0	6775.5	7.86	7.813	2.492	0.39656
8/17/2005 21:22:02	76922.5	6926.0	7.85	7.805	2.484	0.39517
8/17/2005 21:24:17	77057.0	7060.5	7.85	7.798	2.477	0.39394
8/17/2005 21:27:13	77233.0	7236.5	7.84	7.791	2.470	0.39271
8/17/2005 21:29:57	77397.5	7401.0	7.83	7.784	2.463	0.39148
8/17/2005 21:30:07	77407.5	7411.0	7.84	7.791	2.470	0.39271
8/17/2005 21:30:12	77412.5	7416.0	7.83	7.784	2.463	0.39148
8/17/2005 21:32:41	77561.0	7564.5	7.83	7.777	2.456	0.39024
8/17/2005 21:35:36	77736.5	7740.0	7.82	7.770	2.449	0.38900
8/17/2005 21:38:07	77887.0	7890.5	7.81	7.763	2.442	0.38776
8/17/2005 21:41:17	78077.5	8081.0	7.8	7.756	2.435	0.38652
8/17/2005 21:43:55	78235.5	8239.0	7.8	7.749	2.428	0.38526
8/17/2005 21:47:07	78427.5	8431.0	7.79	7.741	2.420	0.38383
8/17/2005 21:49:11	78551.0	8554.5	7.78	7.734	2.413	0.38257
8/17/2005 21:52:31	78751.0	8754.5	7.78	7.727	2.406	0.38131
8/17/2005 21:52:38	78758.5	8762.0	7.8	7.753	2.432	0.38598
8/17/2005 21:52:38	78758.0	8761.5	7.82	7.774	2.453	0.38971
8/17/2005 21:52:39	78759.5	8763.0	7.87	7.819	2.498	0.39761
8/17/2005 21:52:39	78759.0	8762.5	7.84	7.793	2.472	0.39306
8/17/2005 21:52:40	78760.5	8764.0	7.83	7.782	2.461	0.39113
8/17/2005 21:52:43	78763.0	8766.5	7.82	7.772	2.451	0.38936
8/17/2005 21:52:45	78765.5	8769.0	7.78	7.730	2.409	0.38185
8/17/2005 21:52:52	78772.5	8776.0	7.79	7.746	2.425	0.38473
8/17/2005 21:52:56	78776.0	8779.5	7.78	7.730	2.409	0.38185
8/17/2005 21:54:12	78852.5	8856.0	7.77	7.724	2.403	0.38077
8/17/2005 21:56:02	78962.5	8966.0	7.85	7.802	2.481	0.39464
8/17/2005 21:56:02	78962.0	8965.5	7.84	7.790	2.469	0.39254
8/17/2005 21:56:03	78963.5	8967.0	7.85	7.802	2.481	0.39464
8/17/2005 21:56:03	78963.0	8966.5	7.79	7.741	2.420	0.38383
8/17/2005 21:56:04	78964.5	8968.0	7.81	7.762	2.441	0.38758
8/17/2005 21:56:04	78964.0	8967.5	7.77	7.717	2.396	0.37950
8/17/2005 21:56:05	78965.5	8969.0	7.79	7.738	2.417	0.38329
8/17/2005 21:56:11	78971.5	8975.0	7.78	7.731	2.410	0.38203
8/17/2005 21:56:11	78971.0	8974.5	7.77	7.724	2.403	0.38077
8/17/2005 21:56:14	78974.5	8978.0	7.78	7.731	2.410	0.38203

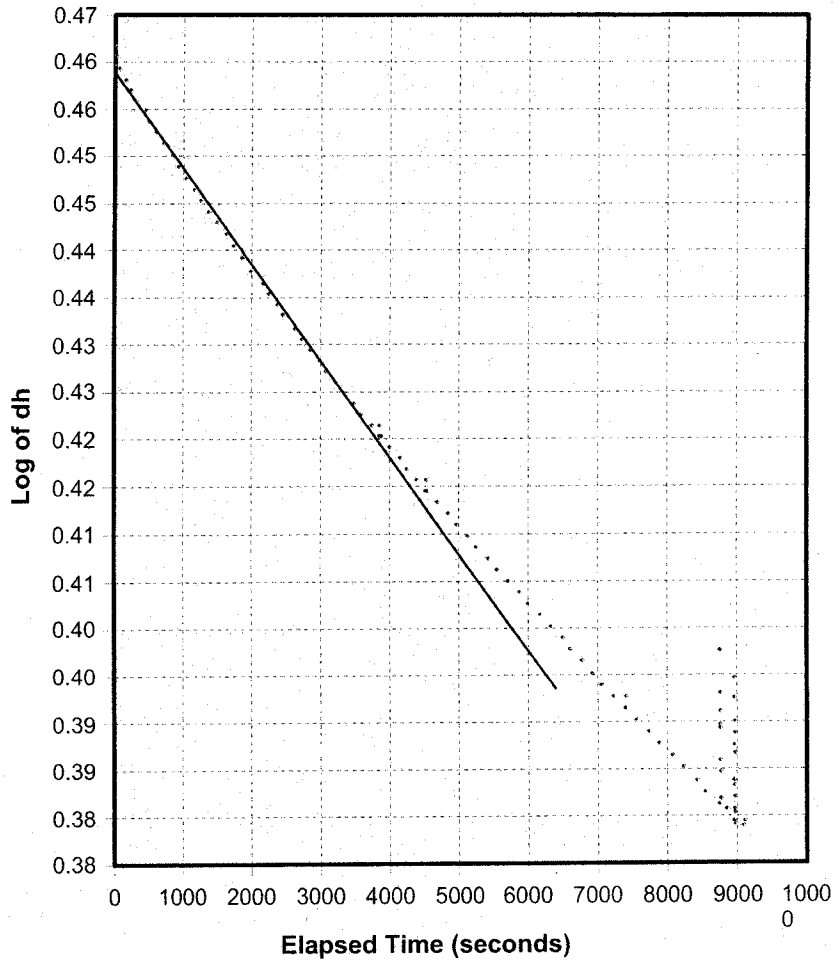
MW-26D

Time	Time (sec)	Elapsed Time (sec)	Logger Reading (ft)	Adjusted Reading (ft)	dh (ft)	Log of dh
8/17/2005 21:56:15	78975.5	8979.0	7.82	7.776	2.455	0.39007
8/17/2005 21:56:15	78975.0	8978.5	7.82	7.769	2.448	0.38883
8/17/2005 21:56:16	78976.5	8980.0	7.81	7.757	2.436	0.38669
8/17/2005 21:56:16	78976.0	8979.5	7.76	7.715	2.394	0.37914
8/17/2005 21:56:18	78978.5	8982.0	7.77	7.722	2.401	0.38041
8/17/2005 21:58:12	79092.5	9096.0	7.76	7.714	2.393	0.37896
8/17/2005 21:58:34	79114.5	9118.0	7.77	7.717	2.396	0.37950

MW-26D

Slug Test by Bouwer and Rice

Displacement Method:	Injection	
Well depth:	61.76	ft
Stick up height:	1.92	ft
Depth to sand pack:	53.00	ft
Depth to screened interval:	56.76	ft
Well diameter:	2.00	in
Diameter of annular space:	4.00	in
Initial depth to water table from top of pipe:	12.31	ft
Initial Head Change:	2.88	ft
Total well length:	63.68	ft
Radius of well casing:	0.0833	ft
Assumed porosity of sand/gravel pack:	30%	
Adjusted radius of well casing:	0.1149	ft
r_c:	0.0833	ft
Radius of gravel pack (r_w):	0.1667	ft
Screened interval:	5.00	ft
Length of open section (L_e):	5.00	ft
L_e / r_w:	30.0000	
A (dimensionless):	2.559	
B (dimensionless):	0.426	
Drawdown at time = 0 (y_0):	2.89	ft
Drawdown at time = t (y_t):	2.69	ft
Elapsed Time between y_0 and y_t (t):	2831	sec
Initial water column in well (L_w):	51.37	ft
$\ln(R_e/r_w)$ =	2.76	
K =	4.78E-08	ft/sec
	1.46E-06	**cm/sec**
	1.51	ft/yr



Water above sand pack:	Yes
%Duration below sand pack:	0.00%
Water above screen:	Yes
%Duration below screen:	0.00%

MW-26S

Initial offset in logger reading (feet):	0.021	Date:	08/17/2005
Offset increment in logger reading (feet/sec):	0.000019		
Initial depth to water table (feet):	14.41		
Depth of probe below water table (feet):	7.424		

Time	Time (sec)	Elapsed Time (sec)	Logger Reading (ft)	Adjusted Reading (ft)	dh (ft)	Log of dh
8/17/2005 11:47:39	42459.0	0.0	0.707	0.672	6.752	0.82940
8/17/2005 11:47:41	42461.5	2.5	0.882	0.847	6.577	0.81800
8/17/2005 11:47:44	42464.0	5.0	1.043	1.008	6.416	0.80724
8/17/2005 11:47:47	42467.0	8.0	1.201	1.166	6.258	0.79642
8/17/2005 11:47:50	42470.0	11.0	1.347	1.312	6.112	0.78617
8/17/2005 11:47:53	42473.5	14.5	1.508	1.473	5.951	0.77458
8/17/2005 11:47:56	42476.5	17.5	1.645	1.610	5.814	0.76447
8/17/2005 11:47:59	42479.5	20.5	1.780	1.745	5.679	0.75427
8/17/2005 11:48:02	42482.5	23.5	1.910	1.875	5.549	0.74422
8/17/2005 11:48:05	42485.5	26.5	2.039	2.004	5.420	0.73400
8/17/2005 11:48:08	42488.5	29.5	2.167	2.132	5.292	0.72363
8/17/2005 11:48:11	42491.5	32.5	2.290	2.254	5.169	0.71342
8/17/2005 11:48:14	42494.5	35.5	2.412	2.376	5.047	0.70305
8/17/2005 11:48:17	42497.5	38.5	2.535	2.499	4.924	0.69234
8/17/2005 11:48:20	42500.5	41.5	2.655	2.619	4.804	0.68164
8/17/2005 11:48:23	42503.5	44.5	2.773	2.737	4.686	0.67084
8/17/2005 11:48:26	42506.5	47.5	2.884	2.848	4.575	0.66044
8/17/2005 11:48:29	42509.5	50.5	3.002	2.966	4.458	0.64909
8/17/2005 11:48:32	42512.5	53.5	3.113	3.077	4.347	0.63815
8/17/2005 11:48:35	42515.5	56.5	3.228	3.192	4.232	0.62651
8/17/2005 11:48:38	42518.5	59.5	3.335	3.299	4.125	0.61539
8/17/2005 11:48:41	42521.5	62.5	3.445	3.409	4.015	0.60366
8/17/2005 11:48:44	42524.5	65.5	3.549	3.513	3.911	0.59227
8/17/2005 11:48:47	42527.0	68.0	3.639	3.603	3.821	0.58216
8/17/2005 11:48:50	42530.0	71.0	3.740	3.704	3.720	0.57054
8/17/2005 11:48:52	42532.5	73.5	3.825	3.789	3.635	0.56050
8/17/2005 11:48:55	42535.0	76.0	3.910	3.874	3.550	0.55023
8/17/2005 11:48:57	42537.5	78.5	3.992	3.956	3.468	0.54009
8/17/2005 11:49:00	42540.0	81.0	4.077	4.041	3.383	0.52932
8/17/2005 11:49:02	42542.5	83.5	4.158	4.121	3.302	0.51880
8/17/2005 11:49:05	42545.0	86.0	4.238	4.201	3.222	0.50816
8/17/2005 11:49:07	42547.5	88.5	4.315	4.278	3.145	0.49766
8/17/2005 11:49:10	42550.0	91.0	4.393	4.356	3.067	0.48676
8/17/2005 11:49:12	42552.5	93.5	4.476	4.439	2.984	0.47485
8/17/2005 11:49:15	42555.0	96.0	4.549	4.512	2.911	0.46410
8/17/2005 11:49:17	42557.5	98.5	4.627	4.590	2.833	0.45232
8/17/2005 11:49:20	42560.0	101.0	4.700	4.663	2.761	0.44099
8/17/2005 11:49:22	42562.5	103.5	4.773	4.736	2.688	0.42936
8/17/2005 11:49:25	42565.0	106.0	4.841	4.804	2.620	0.41824
8/17/2005 11:49:27	42567.5	108.5	4.907	4.870	2.554	0.40716
8/17/2005 11:49:30	42570.0	111.0	4.973	4.936	2.488	0.39580
8/17/2005 11:49:33	42573.0	114.0	5.037	5.000	2.424	0.38449
8/17/2005 11:49:36	42576.5	117.5	5.098	5.061	2.363	0.37343
8/17/2005 11:49:42	42582.0	123.0	5.152	5.115	2.309	0.36341
8/17/2005 11:49:52	42592.0	133.0	5.207	5.170	2.254	0.35298
8/17/2005 11:50:03	42603.5	144.5	5.259	5.221	2.202	0.34289
8/17/2005 11:50:15	42615.5	156.5	5.310	5.272	2.152	0.33276

MW-26S

Time	Time (sec)	Elapsed Time (sec)	Logger Reading (ft)	Adjusted Reading (ft)	dh (ft)	Log of dh
8/17/2005 11:50:28	42628.5	169.5	5.360	5.322	2.102	0.32260
8/17/2005 11:50:42	42642.0	183.0	5.412	5.374	2.050	0.31178
8/17/2005 11:50:54	42654.5	195.5	5.459	5.420	2.003	0.30176
8/17/2005 11:51:07	42667.5	208.5	5.509	5.470	1.954	0.29084
8/17/2005 11:51:21	42681.5	222.5	5.554	5.515	1.909	0.28078
8/17/2005 11:51:35	42695.0	236.0	5.598	5.559	1.865	0.27071
8/17/2005 11:51:50	42710.0	251.0	5.641	5.601	1.822	0.26065
8/17/2005 11:52:05	42725.0	266.0	5.683	5.643	1.781	0.25060
8/17/2005 11:52:19	42739.5	280.5	5.726	5.686	1.738	0.24005
8/17/2005 11:52:35	42755.5	296.5	5.766	5.725	1.698	0.23002
8/17/2005 11:52:51	42771.5	312.5	5.806	5.765	1.659	0.21975
8/17/2005 11:53:10	42790.0	331.0	5.846	5.805	1.619	0.20924
8/17/2005 11:53:26	42806.0	347.0	5.884	5.842	1.581	0.19901
8/17/2005 11:53:43	42823.0	364.0	5.922	5.880	1.544	0.18854
8/17/2005 11:54:03	42843.0	384.0	5.959	5.917	1.507	0.17812
8/17/2005 11:54:22	42862.0	403.0	5.995	5.952	1.471	0.16772
8/17/2005 11:54:40	42880.5	421.5	6.030	5.987	1.437	0.15738
8/17/2005 11:55:00	42900.5	441.5	6.065	6.022	1.402	0.14679
8/17/2005 11:55:20	42920.0	461.0	6.099	6.055	1.369	0.13625
8/17/2005 11:55:41	42941.0	482.0	6.132	6.088	1.336	0.12578
8/17/2005 11:56:01	42961.5	502.5	6.165	6.120	1.303	0.11505
8/17/2005 11:56:24	42984.0	525.0	6.197	6.152	1.272	0.10440
8/17/2005 11:56:44	43004.0	545.0	6.228	6.183	1.241	0.09382
8/17/2005 11:57:06	43026.0	567.0	6.259	6.213	1.211	0.08299
8/17/2005 11:57:24	43044.0	585.0	6.287	6.241	1.183	0.07295
8/17/2005 11:57:43	43063.0	604.0	6.315	6.268	1.155	0.06269
8/17/2005 11:58:01	43081.5	622.5	6.344	6.297	1.127	0.05178
8/17/2005 11:58:20	43100.5	641.5	6.372	6.325	1.099	0.04100
8/17/2005 11:58:37	43117.0	658.0	6.398	6.350	1.073	0.03073
8/17/2005 11:58:54	43134.0	675.0	6.424	6.376	1.048	0.02022
8/17/2005 11:59:14	43154.5	695.5	6.452	6.404	1.020	0.00862
8/17/2005 11:59:33	43173.0	714.0	6.478	6.429	0.994	-0.00243
8/17/2005 11:59:50	43190.5	731.5	6.501	6.452	0.972	-0.01244
8/17/2005 12:00:09	43209.0	750.0	6.525	6.476	0.948	-0.02314
8/17/2005 12:00:27	43227.0	768.0	6.548	6.498	0.925	-0.03364
8/17/2005 12:00:45	43245.0	786.0	6.570	6.520	0.904	-0.04392
8/17/2005 12:01:02	43262.0	803.0	6.591	6.540	0.883	-0.05397
8/17/2005 12:01:21	43281.5	822.5	6.612	6.561	0.863	-0.06423
8/17/2005 12:01:38	43298.5	839.5	6.633	6.582	0.842	-0.07477
8/17/2005 12:02:00	43320.5	861.5	6.655	6.603	0.820	-0.08604
8/17/2005 12:02:20	43340.0	881.0	6.676	6.624	0.800	-0.09710
8/17/2005 12:02:38	43358.5	899.5	6.695	6.643	0.781	-0.10734
8/17/2005 12:02:58	43378.5	919.5	6.716	6.663	0.760	-0.11896
8/17/2005 12:03:16	43396.0	937.0	6.735	6.682	0.742	-0.12975
8/17/2005 12:03:35	43415.5	956.5	6.754	6.701	0.723	-0.14079
8/17/2005 12:03:54	43434.0	975.0	6.772	6.718	0.705	-0.15152
8/17/2005 12:04:12	43452.5	993.5	6.789	6.735	0.689	-0.16188
8/17/2005 12:04:32	43472.0	1013.0	6.806	6.751	0.672	-0.17249
8/17/2005 12:04:50	43490.0	1031.0	6.822	6.767	0.657	-0.18272
8/17/2005 12:05:09	43509.5	1050.5	6.838	6.783	0.641	-0.19318
8/17/2005 12:05:27	43527.5	1068.5	6.855	6.799	0.624	-0.20461
8/17/2005 12:05:47	43547.0	1088.0	6.871	6.815	0.609	-0.21562

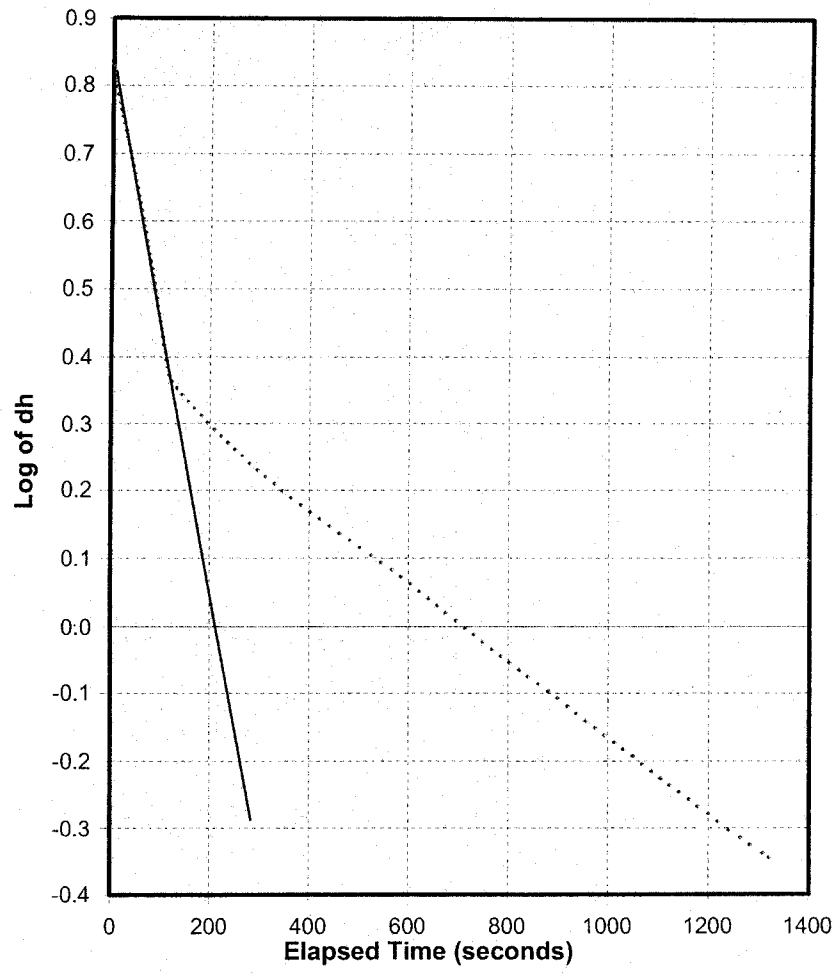
MW-26S

Time	Time (sec)	Elapsed Time (sec)	Logger Reading (ft)	Adjusted Reading (ft)	dh (ft)	Log of dh
8/17/2005 12:06:04	43564.0	1105.0	6.886	6.830	0.594	-0.22621
8/17/2005 12:06:22	43582.0	1123.0	6.900	6.843	0.580	-0.23631
8/17/2005 12:06:41	43601.0	1142.0	6.914	6.857	0.567	-0.24663
8/17/2005 12:07:01	43621.0	1162.0	6.928	6.871	0.553	-0.25719
8/17/2005 12:07:18	43638.0	1179.0	6.942	6.884	0.539	-0.26806
8/17/2005 12:07:39	43659.5	1200.5	6.956	6.898	0.526	-0.27913
8/17/2005 12:07:57	43677.5	1218.5	6.970	6.911	0.512	-0.29056
8/17/2005 12:08:20	43700.5	1241.5	6.985	6.926	0.498	-0.30307
8/17/2005 12:08:43	43723.0	1264.0	6.999	6.940	0.484	-0.31508
8/17/2005 12:09:01	43741.5	1282.5	7.011	6.951	0.472	-0.32565
8/17/2005 12:09:27	43767.0	1308.0	7.025	6.965	0.459	-0.33824
8/17/2005 12:09:40	43780.0	1321.0	7.032	6.971	0.452	-0.34467

MW-26S

Slug Test by Bouwer and Rice

Displacement Method:	Pump	
Well depth:	20.25	ft
Stick up height:	3.00	ft
Depth to sand pack:	3.00	ft
Depth to screened interval:	5.25	ft
Well diameter:	2.00	in
Diameter of annular space:	8.50	in
Initial depth to water table from top of pipe:	14.41	ft
Initial Head Change:	6.75	ft
Total well length:	23.25	ft
Radius of well casing:	0.0833	ft
Assumed porosity of sand/gravel pack:	30%	
Adjusted radius of well casing:	0.2061	ft
r_c:	0.2061	ft
Radius of gravel pack (r_w):	0.3542	ft
Screened interval:	15.00	ft
Length of open section (L_e):	8.84	ft
L_e / r_w:	24.9600	
A (dimensionless):	2.396	
B (dimensionless):	0.397	
Drawdown at time = 0 (y_0):	5.05	ft
Drawdown at time = t (y_t):	4.01	ft
Elapsed Time between y_0 and y_t (t):	527	sec
Initial water column in well (L_w):	8.84	ft
$\ln(R_e/r_w)$ =	1.87	
K =	1.96E-06	ft/sec
	5.96E-05	**cm/sec**
	61.71	ft/yr



Water above sand pack:	No
%Duration below sand pack:	100.00%
Water above screen:	No
%Duration below screen:	100.00%

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

www.encolabs.com

Thursday, October 19, 2006

Municipal Engineering Services (MU001)
Attn: Jonathan Pfohl
P.O. Box 97
Garner, NC 27529

RE: Project Number: [none], Project Name/Desc: Iredell Co. C&D LF
ENCO Workorder: C603873

Dear Jonathan Pfohl,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, October 13, 2006.

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

This data has been produced in accordance with NELAC standards (June, 2003). This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Data from outside organizations will be reported under separate cover.

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

Sincerely,

Bob George For Chuck Smith
Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 16.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: MW-26D **Lab ID:** C603873-01

Sampled: 10/12/06 08:30 **Received:** 10/13/06 12:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	04/10/07	10/16/06 09:15	10/17/2006 14:41
EPA 8260B	10/26/06	10/18/06 09:22	10/18/2006 22:55

Client ID: MW-26S **Lab ID:** C603873-02

Sampled: 10/12/06 10:00 **Received:** 10/13/06 12:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	04/10/07	10/16/06 09:15	10/17/2006 14:48
EPA 8260B	10/26/06	10/18/06 09:22	10/18/2006 23:21

Client ID: MW-25 **Lab ID:** C603873-03

Sampled: 10/12/06 12:00 **Received:** 10/13/06 12:15

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	04/10/07	10/16/06 09:15	10/17/2006 14:55
EPA 8260B	10/26/06	10/18/06 09:22	10/18/2006 23:46

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ANALYTICAL REPORT

Sample ID:	MW-26D	Project:	Iredell Co. C&D LF
Lab #:	C603873-01	Work Order #:	C603873
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	10/18/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6J18003		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MRL	NC RDL	Units
1,1,1,2-Tetrachloroethane	630-20-6	5 U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	5 U	1.0	5	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	5 U	1.0	5	ug/L
1,1,2-Trichloroethane	79-00-5	5 U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	5 U	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	5 U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	15 U	1.0	15	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	25 U	1.0	25	ug/L
1,2-Dibromoethane	106-93-4	5 U	1.0	5	ug/L
1,2-Dichlorobenzene	95-50-1	5 U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	5 U	1.0	5	ug/L
1,2-Dichloropropane	78-87-5	5 U	1.0	5	ug/L
1,4-Dichlorobenzene	106-46-7	5 U	1.0	5	ug/L
2-Butanone	78-93-3	100 U	5.0	100	ug/L
2-Hexanone	591-78-6	50 U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	100 U	5.0	100	ug/L
Acetone	67-64-1	100 U	5.0	100	ug/L
Acrylonitrile	107-13-1	200 U	5.0	200	ug/L
Benzene	71-43-2	5 U	1.0	5	ug/L
Bromochloromethane	74-97-5	5 U	1.0	5	ug/L
Bromodichloromethane	75-27-4	5 U	0.40	5	ug/L
Bromoform	75-25-2	5 U	1.0	5	ug/L
Bromomethane	74-83-9	10 U	1.0	10	ug/L
Carbon disulfide	75-15-0	100 U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	10 U	1.0	10	ug/L
Chlorobenzene	108-90-7	5 U	1.0	5	ug/L
Chloroethane	75-00-3	10 U	1.0	10	ug/L
Chloroform	67-66-3	5 U	1.0	5	ug/L
Chloromethane	74-87-3	10 U	1.0	10	ug/L
cis-1,2-Dichloroethene	156-59-2	5 U	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	10 U	0.20	10	ug/L
Dibromochloromethane	124-48-1	5 U	1.0	5	ug/L
Dibromomethane	74-95-3	10 U	1.0	10	ug/L
Ethylbenzene	100-41-4	5 U	1.0	5	ug/L
Iodomethane	74-88-4	10 U	2.0	10	ug/L
m,p-Xylenes	108-38-3/106-42-3	5 U	2.0	5	ug/L
Methylene chloride	75-09-2	10 U	2.0	10	ug/L
o-Xylene	95-47-6	5 U	1.0	5	ug/L
Styrene	100-42-5	10 U	1.0	10	ug/L
Tetrachloroethene	127-18-4	5 U	1.0	5	ug/L

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ANALYTICAL REPORT

Sample ID:	MW-26D	Project:	Iredell Co. C&D LF
Lab #:	C603873-01	Work Order #:	C603873
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	10/18/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6J18003		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MRL	NC RDL	Units
Toluene	108-88-3	5 U	1.0	5	ug/L
trans-1,2-Dichloroethene	156-60-5	5 U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	10 U	0.20	10	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	100 U	1.0	100	ug/L
Trichloroethene	79-01-6	5 U	1.0	5	ug/L
Trichlorofluoromethane	75-69-4	5 U	1.0	5	ug/L
Vinyl acetate	108-05-4	50 U	2.0	50	ug/L
Vinyl chloride	75-01-4	10 U	1.0	10	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	52	50.0	105 %	70-130
Dibromofluoromethane	1868-53-7	46	50.0	91 %	73-138
Toluene-d8	2037-26-5	54	50.0	108 %	77-118

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ANALYTICAL REPORT

Sample ID: MW-26D
Lab #: C603873-01

Project: Iredell Co. C&D LF
Work Order #: C603873
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results		MRL	NC RDL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.03	U	0.0100	0.03	mg/L	EPA 6010B	EPA 3005A	6J16009
Arsenic	7440-38-2	0.01	U	0.0100	0.01	mg/L	EPA 6010B	EPA 3005A	6J16009
Barium	7440-39-3	0.5	U	0.0100	0.5	mg/L	EPA 6010B	EPA 3005A	6J16009
Beryllium	7440-41-7	0.002	U	0.00100	0.002	mg/L	EPA 6010B	EPA 3005A	6J16009
Cadmium	7440-43-9	0.001	U	0.00100	0.001	mg/L	EPA 6010B	EPA 3005A	6J16009
Chromium	7440-47-3	**0.0371**		0.0100	0.01	mg/L	EPA 6010B	EPA 3005A	6J16009
Cobalt	7440-48-4	**0.0123**		0.0100	0.01	mg/L	EPA 6010B	EPA 3005A	6J16009
Copper	7440-50-8	0.2	U	0.0100	0.2	mg/L	EPA 6010B	EPA 3005A	6J16009
Lead	7439-92-1	0.01	U	0.0100	0.01	mg/L	EPA 6010B	EPA 3005A	6J16009
Nickel	7440-02-0	0.05	U	0.0100	0.05	mg/L	EPA 6010B	EPA 3005A	6J16009
Selenium	7782-49-2	0.02	U	0.0100	0.02	mg/L	EPA 6010B	EPA 3005A	6J16009
Silver	7440-22-4	0.01	U	0.0100	0.01	mg/L	EPA 6010B	EPA 3005A	6J16009
Thallium	7440-28-0	0.01	U	0.0100	0.01	mg/L	EPA 6010B	EPA 3005A	6J16009
Vanadium	7440-62-2	**0.0838**		0.0100	0.04	mg/L	EPA 6010B	EPA 3005A	6J16009
Zinc	7440-66-6	**0.0672**		0.0100	0.05	mg/L	EPA 6010B	EPA 3005A	6J16009

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ANALYTICAL REPORT

Sample ID:	MW-26S	Project:	Iredell Co. C&D LF
Lab #:	C603873-02	Work Order #:	C603873
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	10/18/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6J18003		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MRL	NC RDL	Units
1,1,1,2-Tetrachloroethane	630-20-6	5 U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	5 U	1.0	5	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	5 U	1.0	5	ug/L
1,1,2-Trichloroethane	79-00-5	5 U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	5 U	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	5 U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	15 U	1.0	15	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	25 U	1.0	25	ug/L
1,2-Dibromoethane	106-93-4	5 U	1.0	5	ug/L
1,2-Dichlorobenzene	95-50-1	5 U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	5 U	1.0	5	ug/L
1,2-Dichloropropane	78-87-5	5 U	1.0	5	ug/L
1,4-Dichlorobenzene	106-46-7	5 U	1.0	5	ug/L
2-Butanone	78-93-3	100 U	5.0	100	ug/L
2-Hexanone	591-78-6	50 U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	100 U	5.0	100	ug/L
Acetone	67-64-1	100 U	5.0	100	ug/L
Acrylonitrile	107-13-1	200 U	5.0	200	ug/L
Benzene	71-43-2	5 U	1.0	5	ug/L
Bromochloromethane	74-97-5	5 U	1.0	5	ug/L
Bromodichloromethane	75-27-4	5 U	0.40	5	ug/L
Bromoform	75-25-2	5 U	1.0	5	ug/L
Bromomethane	74-83-9	10 U	1.0	10	ug/L
Carbon disulfide	75-15-0	100 U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	10 U	1.0	10	ug/L
Chlorobenzene	108-90-7	5 U	1.0	5	ug/L
Chloroethane	75-00-3	10 U	1.0	10	ug/L
Chloroform	67-66-3	5 U	1.0	5	ug/L
Chloromethane	74-87-3	10 U	1.0	10	ug/L
cis-1,2-Dichloroethene	156-59-2	5 U	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	10 U	0.20	10	ug/L
Dibromochloromethane	124-48-1	5 U	1.0	5	ug/L
Dibromomethane	74-95-3	10 U	1.0	10	ug/L
Ethylbenzene	100-41-4	5 U	1.0	5	ug/L
Iodomethane	74-88-4	10 U	2.0	10	ug/L
m,p-Xylenes	108-38-3/106-42-3	5 U	2.0	5	ug/L
Methylene chloride	75-09-2	10 U	2.0	10	ug/L
o-Xylene	95-47-6	5 U	1.0	5	ug/L
Styrene	100-42-5	10 U	1.0	10	ug/L
Tetrachloroethene	127-18-4	5 U	1.0	5	ug/L

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ANALYTICAL REPORT

Sample ID:	MW-26S	Project:	Iredell Co. C&D LF
Lab #:	C603873-02	Work Order #:	C603873
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	10/18/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6J18003		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MRL	NC RDL	Units
Toluene	108-88-3	5 U	1.0	5	ug/L
trans-1,2-Dichloroethene	156-60-5	5 U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	10 U	0.20	10	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	100 U	1.0	100	ug/L
Trichloroethene	79-01-6	5 U	1.0	5	ug/L
Trichlorofluoromethane	75-69-4	5 U	1.0	5	ug/L
Vinyl acetate	108-05-4	50 U	2.0	50	ug/L
Vinyl chloride	75-01-4	10 U	1.0	10	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	54	50.0	108 %	70-130
Dibromofluoromethane	1868-53-7	45	50.0	91 %	73-138
Toluene-d8	2037-26-5	55	50.0	109 %	77-118

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ANALYTICAL REPORT

Sample ID: MW-26S
Lab #: C603873-02

Project: Iredell Co. C&D LF
Work Order #: C603873
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results		MRL	NC RDL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.03	U	0.0100	0.03	mg/L	EPA 6010B	EPA 3005A	6J16009
Arsenic	7440-38-2	0.01	U	0.0100	0.01	mg/L	EPA 6010B	EPA 3005A	6J16009
Barium	7440-39-3	0.5	U	0.0100	0.5	mg/L	EPA 6010B	EPA 3005A	6J16009
Beryllium	7440-41-7	0.002	U	0.00100	0.002	mg/L	EPA 6010B	EPA 3005A	6J16009
Cadmium	7440-43-9	0.001	U	0.00100	0.001	mg/L	EPA 6010B	EPA 3005A	6J16009
Chromium	7440-47-3	**0.0127**		0.0100	0.01	mg/L	EPA 6010B	EPA 3005A	6J16009
Cobalt	7440-48-4	0.01	U	0.0100	0.01	mg/L	EPA 6010B	EPA 3005A	6J16009
Copper	7440-50-8	0.2	U	0.0100	0.2	mg/L	EPA 6010B	EPA 3005A	6J16009
Lead	7439-92-1	0.01	U	0.0100	0.01	mg/L	EPA 6010B	EPA 3005A	6J16009
Nickel	7440-02-0	0.05	U	0.0100	0.05	mg/L	EPA 6010B	EPA 3005A	6J16009
Selenium	7782-49-2	0.02	U	0.0100	0.02	mg/L	EPA 6010B	EPA 3005A	6J16009
Silver	7440-22-4	0.01	U	0.0100	0.01	mg/L	EPA 6010B	EPA 3005A	6J16009
Thallium	7440-28-0	0.01	U	0.0100	0.01	mg/L	EPA 6010B	EPA 3005A	6J16009
Vanadium	7440-62-2	0.04	U	0.0100	0.04	mg/L	EPA 6010B	EPA 3005A	6J16009
Zinc	7440-66-6	0.05	U	0.0100	0.05	mg/L	EPA 6010B	EPA 3005A	6J16009

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ANALYTICAL REPORT

Sample ID:	MW-25	Project:	Iredell Co. C&D LF
Lab #:	C603873-03	Work Order #:	C603873
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	10/18/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6J18003		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MRL	NC RDL	Units
1,1,1,2-Tetrachloroethane	630-20-6	5 U	1.0	5	ug/L
1,1,1-Trichloroethane	71-55-6	5 U	1.0	5	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	5 U	1.0	5	ug/L
1,1,2-Trichloroethane	79-00-5	5 U	1.0	5	ug/L
1,1-Dichloroethane	75-34-3	5 U	1.0	5	ug/L
1,1-Dichloroethene	75-35-4	5 U	1.0	5	ug/L
1,2,3-Trichloropropane	96-18-4	15 U	1.0	15	ug/L
1,2-Dibromo-3-chloropropane	96-12-8	25 U	1.0	25	ug/L
1,2-Dibromoethane	106-93-4	5 U	1.0	5	ug/L
1,2-Dichlorobenzene	95-50-1	5 U	1.0	5	ug/L
1,2-Dichloroethane	107-06-2	5 U	1.0	5	ug/L
1,2-Dichloropropane	78-87-5	5 U	1.0	5	ug/L
1,4-Dichlorobenzene	106-46-7	5 U	1.0	5	ug/L
2-Butanone	78-93-3	100 U	5.0	100	ug/L
2-Hexanone	591-78-6	50 U	5.0	50	ug/L
4-Methyl-2-pentanone	108-10-1	100 U	5.0	100	ug/L
Acetone	67-64-1	100 U	5.0	100	ug/L
Acrylonitrile	107-13-1	200 U	5.0	200	ug/L
Benzene	71-43-2	5 U	1.0	5	ug/L
Bromochloromethane	74-97-5	5 U	1.0	5	ug/L
Bromodichloromethane	75-27-4	5 U	0.40	5	ug/L
Bromoform	75-25-2	5 U	1.0	5	ug/L
Bromomethane	74-83-9	10 U	1.0	10	ug/L
Carbon disulfide	75-15-0	100 U	5.0	100	ug/L
Carbon tetrachloride	56-23-5	10 U	1.0	10	ug/L
Chlorobenzene	108-90-7	5 U	1.0	5	ug/L
Chloroethane	75-00-3	10 U	1.0	10	ug/L
Chloroform	67-66-3	5 U	1.0	5	ug/L
Chloromethane	74-87-3	10 U	1.0	10	ug/L
cis-1,2-Dichloroethene	156-59-2	5 U	1.0	5	ug/L
cis-1,3-Dichloropropene	10061-01-5	10 U	0.20	10	ug/L
Dibromochloromethane	124-48-1	5 U	1.0	5	ug/L
Dibromomethane	74-95-3	10 U	1.0	10	ug/L
Ethylbenzene	100-41-4	5 U	1.0	5	ug/L
Iodomethane	74-88-4	10 U	2.0	10	ug/L
m,p-Xylenes	108-38-3/106-42-3	5 U	2.0	5	ug/L
Methylene chloride	75-09-2	10 U	2.0	10	ug/L
o-Xylene	95-47-6	5 U	1.0	5	ug/L
Styrene	100-42-5	10 U	1.0	10	ug/L
Tetrachloroethene	127-18-4	5 U	1.0	5	ug/L

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ANALYTICAL REPORT

Sample ID:	MW-25	Project:	Iredell Co. C&D LF
Lab #:	C603873-03	Work Order #:	C603873
Prep. Method:	EPA 5030B_MS	Matrix:	Ground Water
Analyzed:	10/18/06 By: spf	Unit:	ug/L
Anal. Method:	EPA 8260B	Dilution Factor:	1
Anal. Batch:			
QC Batch:	6J18003		

Volatile Organic Compounds by GCMS

Parameter	CAS Number	Analytical Results	MRL	NC RDL	Units
Toluene	108-88-3	5 U	1.0	5	ug/L
trans-1,2-Dichloroethene	156-60-5	5 U	1.0	5	ug/L
trans-1,3-Dichloropropene	10061-02-6	10 U	0.20	10	ug/L
trans-1,4-Dichloro-2-butene	110-57-6	100 U	1.0	100	ug/L
Trichloroethene	79-01-6	5 U	1.0	5	ug/L
Trichlorofluoromethane	75-69-4	5 U	1.0	5	ug/L
Vinyl acetate	108-05-4	50 U	2.0	50	ug/L
Vinyl chloride	75-01-4	10 U	1.0	10	ug/L

Surrogate Recovery		Result	Spike Level	% Recovery	% Recovery Limits
4-Bromofluorobenzene	460-00-4	55	50.0	110 %	70-130
Dibromofluoromethane	1868-53-7	44	50.0	89 %	73-138
Toluene-d8	2037-26-5	50	50.0	101 %	77-118

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ANALYTICAL REPORT

Sample ID: MW-25
Lab #: C603873-03

Project: Iredell Co. C&D LF
Work Order #: C603873
Matrix: Ground Water

Metals by EPA 6000/7000 Series Methods

Parameter	CAS Number	Analytical Results		MRL	NC RDL	Units	Analysis Method	Prep Method	Analytical Batch
Antimony	7440-36-0	0.03	U	0.0100	0.03	mg/L	EPA 6010B	EPA 3005A	6J16009
Arsenic	7440-38-2	0.01	U	0.0100	0.01	mg/L	EPA 6010B	EPA 3005A	6J16009
Barium	7440-39-3	**0.831**		0.0100	0.5	mg/L	EPA 6010B	EPA 3005A	6J16009
Beryllium	7440-41-7	0.002	U	0.00100	0.002	mg/L	EPA 6010B	EPA 3005A	6J16009
Cadmium	7440-43-9	0.001	U	0.00100	0.001	mg/L	EPA 6010B	EPA 3005A	6J16009
Chromium	7440-47-3	**0.0308**		0.0100	0.01	mg/L	EPA 6010B	EPA 3005A	6J16009
Cobalt	7440-48-4	**0.0268**		0.0100	0.01	mg/L	EPA 6010B	EPA 3005A	6J16009
Copper	7440-50-8	0.2	U	0.0100	0.2	mg/L	EPA 6010B	EPA 3005A	6J16009
Lead	7439-92-1	**0.0173**		0.0100	0.01	mg/L	EPA 6010B	EPA 3005A	6J16009
Nickel	7440-02-0	0.05	U	0.0100	0.05	mg/L	EPA 6010B	EPA 3005A	6J16009
Selenium	7782-49-2	0.02	U	0.0100	0.02	mg/L	EPA 6010B	EPA 3005A	6J16009
Silver	7440-22-4	0.01	U	0.0100	0.01	mg/L	EPA 6010B	EPA 3005A	6J16009
Thallium	7440-28-0	0.01	U	0.0100	0.01	mg/L	EPA 6010B	EPA 3005A	6J16009
Vanadium	7440-62-2	**0.150**		0.0100	0.04	mg/L	EPA 6010B	EPA 3005A	6J16009
Zinc	7440-66-6	**0.323**		0.0100	0.05	mg/L	EPA 6010B	EPA 3005A	6J16009

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QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Volatile Organic Compounds by GCMS - Quality Control										
Batch 6J18003 - EPA 5030B_MS										
Blank (6J18003-BLK1)				Prepared: 10/18/2006 09:22 Analyzed: 10/18/2006 21:38						
Acetone	5.0 U	5.0	ug/L							
Acrylonitrile	5.0 U	5.0	ug/L							
Benzene	1.0 U	1.0	ug/L							
2-Butanone	5.0 U	5.0	ug/L							
2-Hexanone	5.0 U	5.0	ug/L							
Iodomethane	2.0 U	2.0	ug/L							
Tetrachloroethene	1.0 U	1.0	ug/L							
4-Methyl-2-pentanone	5.0 U	5.0	ug/L							
Bromochloromethane	1.0 U	1.0	ug/L							
Trichloroethene	1.0 U	1.0	ug/L							
Bromodichloromethane	0.40 U	0.40	ug/L							
Bromoform	1.0 U	1.0	ug/L							
Bromomethane	1.0 U	1.0	ug/L							
Carbon disulfide	5.0 U	5.0	ug/L							
Carbon tetrachloride	1.0 U	1.0	ug/L							
Chlorobenzene	1.0 U	1.0	ug/L							
Chloroethane	1.0 U	1.0	ug/L							
Chloroform	1.0 U	1.0	ug/L							
Chloromethane	1.0 U	1.0	ug/L							
Dibromochloromethane	1.0 U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	1.0 U	1.0	ug/L							
1,2-Dibromoethane	1.0 U	1.0	ug/L							
Dibromomethane	1.0 U	1.0	ug/L							
1,2-Dichlorobenzene	1.0 U	1.0	ug/L							
1,4-Dichlorobenzene	1.0 U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	1.0 U	1.0	ug/L							
1,1-Dichloroethane	1.0 U	1.0	ug/L							
1,2-Dichloroethane	1.0 U	1.0	ug/L							
1,1-Dichloroethene	1.0 U	1.0	ug/L							
cis-1,2-Dichloroethene	1.0 U	1.0	ug/L							
trans-1,2-Dichloroethene	1.0 U	1.0	ug/L							
1,2-Dichloropropane	1.0 U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20 U	0.20	ug/L							
trans-1,3-Dichloropropene	0.20 U	0.20	ug/L							
Ethylbenzene	1.0 U	1.0	ug/L							
Methylene chloride	2.0 U	2.0	ug/L							
Styrene	1.0 U	1.0	ug/L							
1,1,1,2-Tetrachloroethane	1.0 U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	1.0 U	1.0	ug/L							
Toluene	1.0 U	1.0	ug/L							

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QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Volatile Organic Compounds by GCMS - Quality Control										
Batch 6J18003 - EPA 5030B_MS										
Blank (6J18003-BLK1) Continued				Prepared: 10/18/2006 09:22 Analyzed: 10/18/2006 21:38						
1,1,1-Trichloroethane	1.0 U	1.0	ug/L							
1,1,2-Trichloroethane	1.0 U	1.0	ug/L							
Trichlorofluoromethane	1.0 U	1.0	ug/L							
1,2,3-Trichloropropane	1.0 U	1.0	ug/L							
Vinyl acetate	2.0 U	2.0	ug/L							
Vinyl chloride	1.0 U	1.0	ug/L							
m,p-Xylenes	2.0 U	2.0	ug/L							
o-Xylene	1.0 U	1.0	ug/L							
LCS (6J18003-BS1)				Prepared: 10/18/2006 09:22 Analyzed: 10/18/2006 18:07						
Benzene	12	1.0	ug/L	12.5		98	69-115			
Trichloroethene	14	1.0	ug/L	12.5		110	74-118			
Chlorobenzene	12	1.0	ug/L	12.5		95	76-118			
1,1-Dichloroethene	14	1.0	ug/L	12.5		110	64-139			
Toluene	13	1.0	ug/L	12.5		102	77-117			
Matrix Spike (6J18003-MS1)		**Source: C603885-09**		Prepared: 10/18/2006 09:22 Analyzed: 10/18/2006 18:33						
Benzene	13	1.0	ug/L	20.0	1.0 U	64	53-150			
Trichloroethene	14	1.0	ug/L	20.0	1.0 U	71	64-124			
Chlorobenzene	12	1.0	ug/L	20.0	1.0 U	60	44-128			
1,1-Dichloroethene	15	1.0	ug/L	20.0	1.0 U	73	36-177			
Toluene	13	1.0	ug/L	20.0	1.0 U	63	40-161			
Matrix Spike Dup (6J18003-MSD1)		**Source: C603885-09**		Prepared: 10/18/2006 09:22 Analyzed: 10/18/2006 18:59						
Benzene	11	1.0	ug/L	20.0	1.0 U	57	53-150	12	23	
Trichloroethene	13 QM-07	1.0	ug/L	20.0	1.0 U	63	64-124	12	25	QM-07
Chlorobenzene	11	1.0	ug/L	20.0	1.0 U	55	44-128	9	22	
1,1-Dichloroethene	13	1.0	ug/L	20.0	1.0 U	65	36-177	11	30	
Toluene	12	1.0	ug/L	20.0	1.0 U	58	40-161	10	23	
Metals by EPA 6000/7000 Series Methods - Quality Control										
Batch 6J16009 - EPA 3005A										
Blank (6J16009-BLK1)				Prepared: 10/16/2006 09:15 Analyzed: 10/17/2006 12:29						
Antimony	0.01 U	0.01	mg/L							
Arsenic	0.01 U	0.01	mg/L							
Barium	0.01 U	0.01	mg/L							
Beryllium	0.001 U	0.001	mg/L							
Cadmium	0.001 U	0.001	mg/L							
Chromium	0.01 U	0.01	mg/L							
Cobalt	0.01 U	0.01	mg/L							
Copper	0.01 U	0.01	mg/L							
Lead	0.01 U	0.01	mg/L							
Nickel	0.01 U	0.01	mg/L							

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QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Metals by EPA 6000/7000 Series Methods - Quality Control										
Batch 6J16009 - EPA 3005A										
Blank (6J16009-BLK1) Continued				Prepared: 10/16/2006 09:15 Analyzed: 10/17/2006 12:29						
Selenium	0.01 U	0.01	mg/L							
Silver	0.01 U	0.01	mg/L							
Thallium	0.01 U	0.01	mg/L							
Vanadium	0.01 U	0.01	mg/L							
Zinc	0.01 U	0.01	mg/L							
LCS (6J16009-BS1)				Prepared: 10/16/2006 09:15 Analyzed: 10/17/2006 12:49						
Antimony	0.525	0.01	mg/L	0.500		105	82-119			
Arsenic	1.04	0.01	mg/L	1.00		104	82-117			
Barium	1.04	0.01	mg/L	1.00		104	72-125			
Beryllium	0.534	0.001	mg/L	0.500		107	75-121			
Cadmium	0.532	0.001	mg/L	0.500		106	72-120			
Chromium	1.03	0.01	mg/L	1.00		103	78-119			
Cobalt	1.02	0.01	mg/L	1.00		102	76-117			
Copper	0.522	0.01	mg/L	0.500		104	80-117			
Lead	1.02	0.01	mg/L	1.00		102	72-121			
Nickel	1.05	0.01	mg/L	1.00		105	78-116			
Selenium	1.05	0.01	mg/L	1.00		105	82-127			
Silver	0.0987	0.01	mg/L	0.100		99	80-128			
Thallium	0.521	0.01	mg/L	0.500		104	79-118			
Vanadium	0.506	0.01	mg/L	0.500		101	78-117			
Zinc	1.04	0.01	mg/L	1.00		104	80-120			
Matrix Spike (6J16009-MS1)		**Source: C603657-05**		Prepared: 10/16/2006 09:15 Analyzed: 10/17/2006 13:10						
Antimony	0.533	0.01	mg/L	0.500	0.01 U	107	38-138			
Arsenic	1.05	0.01	mg/L	1.00	0.01 U	105	64-126			
Barium	1.16	0.01	mg/L	1.00	0.115	104	74-119			
Beryllium	0.535	0.001	mg/L	0.500	0.001 U	107	70-131			
Cadmium	0.525	0.001	mg/L	0.500	0.001 U	105	68-121			
Chromium	1.02	0.01	mg/L	1.00	0.01 U	102	73-120			
Cobalt	1.06	0.01	mg/L	1.00	0.0493	101	76-120			
Copper	0.536	0.01	mg/L	0.500	0.00560	106	75-123			
Lead	1.02	0.01	mg/L	1.00	0.01 U	102	68-126			
Nickel	1.04	0.01	mg/L	1.00	0.00920	103	64-126			
Selenium	1.07	0.01	mg/L	1.00	0.01 U	107	65-129			
Silver	0.101	0.01	mg/L	0.100	0.01 U	101	69-121			
Thallium	0.516	0.01	mg/L	0.500	0.01 U	103	67-135			
Vanadium	0.486	0.01	mg/L	0.500	0.01 U	97	71-130			
Zinc	1.04	0.01	mg/L	1.00	0.01 U	104	63-131			
Matrix Spike Dup (6J16009-MSD1)		**Source: C603657-05**		Prepared: 10/16/2006 09:15 Analyzed: 10/17/2006 13:17						
Antimony	0.522	0.01	mg/L	0.500	0.01 U	104	38-138	2	30	
Arsenic	1.04	0.01	mg/L	1.00	0.01 U	104	64-126	1	12	

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QUALITY CONTROL

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Metals by EPA 6000/7000 Series Methods - Quality Control										
Batch 6J16009 - EPA 3005A										
Matrix Spike Dup (6J16009-MSD1) Continued		**Source: C603657-05**		Prepared: 10/16/2006 09:15 Analyzed: 10/17/2006 13:17						
Barium	1.15	0.01	mg/L	1.00	0.115	103	74-119	0.4	11	
Beryllium	0.530	0.001	mg/L	0.500	0.001 U	106	70-131	1	21	
Cadmium	0.520	0.001	mg/L	0.500	0.001 U	104	68-121	1	12	
Chromium	1.01	0.01	mg/L	1.00	0.01 U	101	73-120	1	10	
Cobalt	1.05	0.01	mg/L	1.00	0.0493	100	76-120	1	17	
Copper	0.530	0.01	mg/L	0.500	0.00560	105	75-123	1	16	
Lead	0.994	0.01	mg/L	1.00	0.01 U	99	68-126	2	19	
Nickel	1.03	0.01	mg/L	1.00	0.00920	102	64-126	1	12	
Selenium	1.05	0.01	mg/L	1.00	0.01 U	105	65-129	2	10	
Silver	0.0975	0.01	mg/L	0.100	0.01 U	97	69-121	3	12	
Thallium	0.513	0.01	mg/L	0.500	0.01 U	103	67-135	0.6	13	
Vanadium	0.481	0.01	mg/L	0.500	0.01 U	96	71-130	1	16	
Zinc	1.02	0.01	mg/L	1.00	0.01 U	102	63-131	2	24	

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NOTES AND DEFINITIONS

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
U	Analyte included in the analysis, but not detected

Laboratory Certification Summary

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

QSARF

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1015 Passport Way
Cary, North Carolina 27513
Ph. (919) 677-1669 • Fax (919) 677-9846

ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE	PROJECT NO.	P.O. NUMBER
Iredell Co. C&D LF		

PROJECT LOC. (State)	SAMPLER(s) NAME	PHONE	FAX
NC	J. Pfohl	(919) 772-5373	(919) 772-1174

CLIENT NAME	CLIENT PROJECT MANAGER
Municipal Engineering	J. Pfohl

CLIENT ADDRESS (CITY, STATE, ZIP): PO Box 97 Greer NC 27529

PAGE 1 OF 1

☒ STANDARD REPORT DELIVERY

☐ EXPEDITED REPORT DELIVERY (surcharge)

Date Due:

MATRIX TYPE / REQUIRED ANALYSIS / PRESERVATIVE / NUMBER OF CONTAINERS SUBMITTED

STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION	SURFACE WATER	GROUND WATER	WASTEWATER	DRINKING WATER	SOIL/SOLID/SEDIMENT	NONAQUEOUS LIQUID (oil, solvent, etc.)	AIR	SLUDGE	OTHER	8260B App 1	App I Metals							REMARKS
1	10/12/06	8:30	X		MW-26D		X								X	X							
2	↓	10:00			MW-26S		↓								↓	↓							
3	↓	12:00			MW-25		↓								↓	↓							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							
13																							
14																							

SAMPLE KIT PREPARED BY: ☐JACKSONVILLE ☐ORLANDO	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
				10/13/06	10:30		10/13	1030
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	10/13	1215						
RECEIVED BY (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
						J Lowther	10/13	1215

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	ENCO LOG NO.	REMARKS
☐ Jacksonville ☐ Orlando			☐ YES ☐ NO		Pre-operation Baseline Event 3.0°

Sampling Data Sheet

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

Project: Iredell C&D LF, ph. 3 (Pre-Operative Baseline #1) Samplers: J. Pfohl

Monitoring Point	Sample Date	Sample Time	Sampling Parameters: Depth to Water (BTOP) Static	Depth to Water (BTOP) Sample Time	Volume Purged (Gal)	Sample Type	Sampling Depth (BGS)	Water Quality Parameters: pH	Temp.	Specific Cond.	Turbidity	Total Depth
MW-26D	10/12/06	8:30	12.72		PD	P		6.41	15.9	60	ST	61.76
MW-26S	↓	10:00	14.11		PD	P		6.5	15.9	40	ST	20.25
MW-26M		NS	14.31		–							
MW-25		12:00	21.01		40	P		6.8	15.8	50	MT	24.93

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