P 1016 RCO 2232

David Garrett & Associates
Engineering and Geology

January 8, 2007

Ms. Jackie Drummond
NC Division of Waste Management
Solid Waste Section
Mail Service Center 1646
Raleigh, NC 27699-1646

RE: Semi-Annual Water Quality Monitoring Report
C&D Landfill, Inc. (Pitt County, NC) Permit #74-07

Dear Ms. Drummond:

On behalf of C&D Landfill, Inc., I am pleased to present this report of the twelfth semi-annual water quality monitoring event. Stream and well sampling was conducted on November 2, 2006 by Environment-1, Inc.

- Shallow wells sampled during this event include MW-1s, MW-2s, MW-4, MW-5, MW-6, MW-7, MW-8, and MW-9s. Deep wells MW-1d (upgradient background well), MW-2d and MW-9d (all scheduled for bi-annual sampling) were not sampled.

- Three surface water sampling locations, SW-1 through SW-3, were sampled during this event. The monitoring program has been in place since May 2001, but MW-5, MW-8, MW-9s, MW-9d and SW-3 were first sampled in November 2002 for the opening of Phase 1B.

The data are presented on the attached tables. Table 1 is a summary of well construction and recent water level data trends. Table 2 is the continuum of analytical data collected at the site, along with field parameters including the water level observations. Table 3 is a list of the chemical analytes, along with their respective CAS numbers (chemical abstract service), required by NC DENR.

Table 1 shows that water elevations measured at the wells gauged in November 2006 are higher by approximately 0.30 to 1.25 feet than those measured during the previous sampling event. A record shallow water level was set at the location of MW-1s in November 2006. The water levels observed during this event are consistent with average water level elevations at the site. The data do not suggest any unusual water level fluctuations.

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A discussion of inorganic constituents detected during this sampling event follows:

Cadmium – Detected at SW-1 (BG) and SW-3, and for the first time at SW-2. The level detected at SW-1 (BG) equals the NC 2L standard of 0.5 mg/l. The concentrations detected at SW-2 and SW-3 are below the NC 2L standard. Detected previously at SW-1 (BG) and SW-3 at concentrations below the NC 2L standard.

No organic constituents have been detected at any of the monitoring wells at this landfill that could be tied to the landfill.

In summary, no detects of inorganic constituents were observed in ground water above the 2L ground water protection standards. The recurrence of cadmium in the background stream sample verifies this is a background constituent relative to the landfill. There are no trends in the inorganic constituents that can be tied to the landfill. Based on these findings, no apparent impact on ground water can be associated with the landfill. There are no down-gradient ground water users and no risk to the public.

Recommendations: No changes to the monitoring program appear warranted at this time. If cadmium continues to be observed in the stream samples, consideration should be given to adding turbidity to the sampling parameters list for stream samples (already done at the wells).

Please contact me at your earliest convenience with questions or comments.

Sincerely,

Brian S. Boutin, P.G.

NORTH CAROLINA LICENSED SEAL 1288 GEOLOGIST BRIAN S. BOUTIN

cc: G. David Garrett, P.G., B.E.
Mr. Judson Whitehurst – C&D Landfill, Inc.
Mr. John A.K. Tucker, P.E.

Table 1
Monitoring Well Water Level Data
Sampling Date: 05/30/06

Monitoring Location	TOC Elevation	Ground Elevation	Depth of Well (bgs)	Screened Interval (bgs)	Water Level [1]	Water Level [2]
MW-1d (B-1)[3,4]	21.14	17.40	50	40 - 50	NA	NA
MW-1s [3]	20.91	17.59	13	3 - 13	8.46	7.20
					12.45	**13.71**
MW-2d (B-2d) [4]	21.80	17.97	49	39 - 49	12.35	NA
					9.45	
MW-2s	21.44	18.45	13	3 - 13	10.87	10.15
					10.57	**11.29**
~~MW-3d (B-3)~~ [5]	~~22.83~~	~~19.37~~	~~50~~	~~40 - 50~~	~~NA~~	~~NA~~
MW-4	18.42	14.83	13	3 - 13	6.74	6.43
					11.68	**11.99**
MW-5	17.90	14.80	18	3 - 18	6.80	6.32
					11.10	**11.58**
MW-6	20.03	16.87	13	3 - 13	9.63	9.08
					10.40	**10.95**
MW-7	19.40	16.03	13	3 - 13	8.51	7.99
					10.89	**11.41**
MW-8	21.21	18.30	18	3 - 18	10.00	9.65
					11.21	**11.56**
MW-9d [4]	22.88	19.88	38	33 - 38	NA	NA
MW-9s	22.95	19.91	18	3 - 18	11.91	11.61
					11.04	**11.34**

Notes:
1. Last Semi-Annual Event, depth / **elevation**, reference top of casing (TOC), recorded on 5/30/06
2. This Semi-Annual Event, depth / **elevation**, reference top of casing (TOC), recorded on 11/02/06
3. Up-gradient Background Well for each respective aquifer
4. Sample Bi-annually, all others sample semi-annually except as noted
5. Only sample MW-3d for assessment monitoring, if needed (replaced by MW-9s and MW-9d)
6. Elevations were surveyed July 2001and November 2002 by Burgess Land Surveying, Greenville, NC

Table 2
Detected Inorganic Constituents

All values are given in mg/l

No Appendix I organic constituents were detected.

Bold data represent duplicates or resampling events, if required.
Italics represents values that exceed North Carolina 2L Ground Water Standards

Constituent	NC 2L Standard	Sampling Date	MW-1d BG	MW-1s BG	MW-2d	MW-2s	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9d	MW-9s	SW-1 BG	SW-2	SW-3
Antimony		05/16/01														
		11/12/01														
		05/02/02														
		11/27/02														
		5/14/03														
		11/13/03														
		5/20/04														
		11/05/04														
		5/31/05														
		11/04/05														
		5/30/06														
		11/02/06														
Arsenic	0.05	05/16/01														
		11/12/01														
		05/02/02														
		11/27/02														
		5/14/03									0.013					
		11/13/03							0.014							
		5/20/04														
		11/05/04							0.022				0.035			
		5/31/05														
		11/04/05											0.010			
		5/30/06							0.013				0.013			
		11/02/06														
Barium	2.0	05/16/01														
		11/12/01														
		05/02/02														
		11/27/02														
		5/14/03														
		11/13/03														
		5/20/04														
		11/05/04											1.229			
		5/31/05														
		11/04/05														
		5/30/06											0.576			
		11/02/06														

Constituent	NC 2L Standard	Sampling Date	MW-1d BG	MW-1s BG	MW-2d	MW-2s	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9d	MW-9s	SW-1 BG	SW-2	SW-3
Barium (Dissolved)		05/16/01														
		11/12/01														
Not Tested		05/02/02														
Not Tested		11/27/02														
		5/14/03														
		11/13/03														
		5/20/04														
		11/05/04														
		5/31/05														
		11/04/05														
		5/30/06														
		11/02/06														
Beryllium		05/16/01														
		11/12/01														
		05/02/02														
		11/27/02														
		5/14/03					0.002									
		11/13/03														
		5/20/04														
		11/05/04														
		5/31/05														
		11/04/05														
		5/30/06														
		11/02/06														
Beryllium (Dissolved)		05/16/01														
		11/12/01														
Not Tested		05/02/02														
Not Tested		11/27/02														
		5/14/03														
		11/13/03								0.002						
		5/20/04														
		11/05/04														
		5/31/05														
		11/04/05														
		5/30/06														
		11/02/06														

Constituent	NC 2L Standard	Sampling Date	MW-1d BG	MW-1s BG	MW-2d	MW-2s	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9d	MW-9s	SW-1 BG	SW-2	SW-3
Cadmium	0.005	05/16/01														
		11/12/01														
		05/02/02														
		11/27/02														
		5/14/03														
		11/13/03														
		5/20/04												0.004		
		11/05/04														
		5/31/05														
		11/04/05									0.001			0.001		
		5/30/06		0.001		0.001				0.001				0.003		0.001
		11/02/06												0.005	0.002	0.001
Cobalt		05/16/01				0.019										
		11/12/01				0.016										
		05/02/02														
		11/27/02														
		5/14/03							0.021	0.011	0.017					
		11/13/03				0.011			0.012	0.052						
		5/20/04							0.029	0.023						
		11/05/04				0.013			0.017				0.028			
		5/31/05								0.015			0.013			
		11/04/05														
		5/30/06								0.011						
		11/02/06														
Cobalt (Dissolved)		05/16/01														
		11/12/01														
Not Tested		05/02/02														
Not Tested		11/27/02														
		5/14/03														
		11/13/03														
		5/20/04														
		11/05/04														
		5/31/05														
		11/04/05														
		5/30/06														
		11/02/06														

Constituent	NC 2L Standard	Sampling Date	MW-1d BG	MW-1s BG	MW-2d	MW-2s	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9d	MW-9s	SW-1 BG	SW-2	SW-3
Copper	1.0	05/16/01														
		11/12/01														
		05/02/02														
		11/27/02														
		5/14/03														
		11/13/03														
		5/20/04														
		11/05/04														
		5/31/05														
		11/04/05														
		5/30/06														
Copper (Dissolved)		05/16/01														
		11/12/01														
Not Tested		05/02/02														
Not Tested		11/27/02														
		5/14/03														
		11/13/03														
		5/20/04														
		11/05/04														
		5/31/05														
		11/04/05														
		5/30/06														
		11/02/06														
Chromium (total)	0.05	05/16/01	*0.083*	0.015	0.029	*0.085*	0.029			0.015						
		11/12/01				*0.069*	0.042									
		05/02/02					0.013									
		11/27/02														
		5/14/03	0.022		0.024	0.042			0.011		*0.122*		0.025			
		11/13/03				0.033	0.012		0.015		0.010		0.011			
		5/20/04				0.033	0.025		0.022		0.025		0.041			
		11/05/04				0.015	0.300		0.020	0.040			0.014			
		5/31/05			0.011				0.011							
		11/04/05														
		5/30/06							0.012							
		11/02/06														

Constituent	NC 2L Standard	Sampling Date	MW-1d BG	MW-1s BG	MW-2d	MW-2s	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9d	MW-9s	SW-1 BG	SW-2	SW-3
Lead	0.015	05/16/01				*0.029*	0.011									
		11/12/01				*0.027*	0.013									
		05/02/02														
		11/27/02														
		5/14/03									*0.028*					
		11/13/03				*0.022*										
		5/20/04				*0.020*	*0.025*						0.012			
		11/05/04					*0.019*									
		5/31/05												0.014		
		11/04/05					0.014									
		5/30/06														
		11/02/06														
Nickel	0.1	05/16/01														
		11/12/01														
		05/02/02														
		11/27/02														
		5/14/03														
		11/13/03														
		5/20/04														
		11/05/04														
		5/31/05														
		11/04/05														
		5/30/06														
		11/02/06														
Nickel (Dissolved)		05/16/01														
		11/12/01														
Not Tested		05/02/02														
Not Tested		11/27/02														
		5/14/03														
		11/13/03														
		5/20/04														
		11/05/04														
		5/31/05														
		11/04/05														
		5/30/06														
		11/02/06														

Constituent	NC 2L Standard	Sampling Date	MW-1d BG	MW-1s BG	MW-2d	MW-2s	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9d	MW-9s	SW-1 BG	SW-2	SW-3
Selenium	0.05	05/16/01 11/12/01 05/02/02 11/27/02 5/14/03 11/13/03 5/20/04 11/05/04 5/31/05 11/04/05 5/30/06 11/02/06														
Silver	0.018	05/16/01 11/12/01 05/02/02 11/27/02 5/14/03 11/13/03 5/20/04 11/05/04 5/31/05 11/04/05 5/30/06 11/02/06														
Thallium		05/16/01 11/12/01 05/02/02 11/27/02 5/14/03 11/13/03 5/20/04 11/05/04 5/31/05 11/04/05 5/30/06 11/02/06														

Constituent	NC 2L Standard	Sampling Date	MW-1d BG	MW-1s BG	MW-2d	MW-2s	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9d	MW-9s	SW-1 BG	SW-2	SW-3
Vanadium		05/16/01	0.048			0.124										
		11/12/01				0.098										
		05/02/02														
		11/27/02														
		5/14/03									0.115					
		11/13/03														
		5/20/04				0.044							0.052			
		11/05/04					0.045									
		5/31/05														
		11/04/05														
		5/30/06														
		11/02/06														
Zinc	2.1	05/16/01	0.053			0.099										
		11/12/01				0.057										
		05/02/02														
		11/27/02														
		5/14/03									0.134					
		11/13/03														
		5/20/04														
		11/05/04														
		5/31/05														
		11/04/05														
		5/30/06														
		11/02/06														
pH		05/16/01	8.4	6.1	7.4	5.6	5.9		5.5	5.4				6.1	5.6	
		11/12/01		6.1		5.5	5.8		5.7	5.9				NA	5.8	
		05/02/02		5.6		5.6	5.2		5.5	5.4				5.7	5.8	
		11/27/02		5.6		5.8	5.8	6.8	5.8	6.1	7.3	7.9	6.9	5.3	5.8	6.4
		5/14/03	8.4	5.5	7.8	6.2	5.3	6.7	6.2	5.4	6.8		6.5	6.0	6.1	5.8
		11/13/03		4.9		4.9	5.3	6.3	6.6	4.6	6.1		5.7	5.9	6.1	6.0
		5/20/04		5.8		5.8	5.9	6.1	6.7	6.2	6.2		6.1	6.2	6.5	5.9
		11/05/04		5.9	8.2	6.5	6.2	6.2	6.8	6.3	6.3		6.6	6.7	6.7	7.1
		5/31/05		6.0		6.5	5.8	6.3	6.8	6.2	5.9		6.8	6.6	6.8	6.3
		11/04/05		5.7		6.4	5.8	6.4	6.7	6.4	6.2		6.6	5.5	6.6	5.9
		5/30/06		6.1	7.6	6.1	6.0	6.8	6.8	6.7	6.1		6.4	6.3	7.0	6.4
		11/02/06		5.3		5.8	5.9	6.9	6.5	6.4	6.2		6.2	6.3	6.5	6.0

Constituent	NC 2L Standard	Sampling Date	MW-1d BG	MW-1s BG	MW-2d	MW-2s	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9d	MW-9s	SW-1 BG	SW-2	SW-3
Specific Conductance, :mho/cm		05/16/01	400	430	470	420	250		320	280				430	420	
		11/12/01		510		320	110		320	360				NA	160	
		05/02/02		360		210	250		190	260				110	110	
		11/27/02		607		300	220	353	285	310	342	448	205	209	254	191
		5/14/03	382	635	438	247	436	285	1026	310	233		180	142	149	131
		11/13/03		596		307	193	252	177	1074	196		158	134	196	159
		5/20/04		495		1301	178	380	4120	1316	239		203	130	331	119
		11/05/04		721		170711	242	578	1779	1101	414		1530	112	443	125
		5/31/05		689	490	883	257	962	2740	969	508		985	125	348	200
		11/04/05		614		687	281	783	393	661	285		1313	1305	1245	1310
		5/30/06		570	492	421	195	969	2064	1670	854		1556	129	263	1450
		11/02/06		885		280	166	828	787	1203	882		1354	105	163	125
Static Water Level, depth in feet (toc)		05/16/01	10.02	8.91	12.69	10.90	6.94		9.84	8.66				Denotes record maximum water level (deep)	Denotes record maximum water level (shallow)	
		11/12/01		10.08		11.74	7.47		10.46	9.32						
		05/02/02		7.85		10.53	6.62		9.73	8.51						
		11/27/02		8.56		11.49	6.76	6.98	10.30	9.07	10.18	12.67	12.11			
		5/14/03	9.16	7.83	12.06	10.20	6.60	6.18	9.46	8.48	9.36		11.30			
		11/13/03		7.34		10.38	6.46	6.38	9.28	8.16	9.58		11.53			
		5/20/04		8.49		10.74	6.80	6.61	9.55	8.50	9.61		11.63			
		11/05/04		8.90		11.26	6.96	7.12	9.87	8.79	10.29		12.21			
		5/31/05		8.28		10.55	6.73	6.61	9.37	8.30	9.79		11.78			
		11/04/05		7.41		9.89	6.40	6.10	9.00	7.98	9.40		11.34			
		5/30/06		8.46	12.35	10.87	6.74	6.80	9.63	8.51	10.00		11.91			
		11/02/06		7.20		10.15	6.43	6.32	9.08	7.99	9.65		11.61			
Turbidity, NTU		05/16/01														
Not Tested		11/12/01														
Not Tested		05/02/02														
Not Tested		11/27/02														
		5/14/03	16	9.2	190	9	7.2	2.3	5.9	17	250		130			
		11/13/03		4.0		270	2.7	17	7.6	22	196		9.9			
		5/20/04		23		32	170	18	80	33	250		400			
		11/05/04		13		390	600	40	55	90	80		280			
		5/31/05		23	54	250	250	45	46	45	37		98			
		11/04/05		17		180	120	115	39	110	75		100			
		5/30/06		11	14	31	9.5	37	35	194	10		143			
		11/02/06		33		11	65	22	3.5	80	12		80			

Notes: The wells denoted "d" monitor the deeper regional aquifer (Yorktown Formation); wells denoted "s" and all others monitor the uppermost (surficial) aquifer

Certain inorganic constituents (e.g., chromium and lead) are believed to be tied to turbidity, subject to further evaluation
Wells MW-1d, MW-2d, and MW-9d are tested on a bi-annual basis

Table 3

Analytical Constituents w/ CAS Numbers
C&D Landfill, Inc.
Pitt County, North Carolina

Monitored Analyte		CAS number
Antimony		7440-36-0
Arsenic		7440-38-2
Barium		7440-39-3
Beryllium		7440-41-7
Cadmium		7440-43-9
Cobalt		7440-48-4
Copper		7440-50-8
Total Chromium		7440-47-3
Lead		7439-92-1
Nickel		7440-2-0
Selenium		7782-49-2
Silver		7440-22-4
Thallium		7440-28-0
Vanadium		7440-62-2
Zinc		7440-66-6
Chloromethane		106-50-3
Vinyl Chloride		75-1-4
Bromomethane		74-83-9
Chloroethane		75-0-3
Trichlorofluoromethane		75-69-4
1,1-Dichloroethene		75-35-4
Acetone		67-64-1
Iodomethane		74-88-4
Carbon Disulfide		75-15-0
Methylene Chloride		75-9-2
trans-1,2-Dichloroethene		156-60-5
1,1-Dichloroethane		75-34-3
Vinyl Acetate		108-5-4
Cis-1,2-Dichloroethene		156-59-2
2-Butanone		78-93-3
Bromochloromethane		74-97-5
Chloroform		67-66-3
1,1,1-Trichloroethane		71-55-6
Carbon Tetrachloride		56-23-5
Benzene		71-43-2
1,2-Dichloroethane		107-6-2
Trichloroethene		79-1-6
1,2-Dichloropropane		78-87-5

Bromodichloromethane		75-27-4
Cis-1,3-Dichloropropene		10061-1-5
4-Methyl-2-Pentanone		108-10-1
Toluene		108-88-3
trans-1,3-Dichloropropene		10061-2-6
1,1,2-Trichloroethane		79-0-5
Tetrachloroethene		127-18-4
2-Hexanone		591-78-6
Dibromochloromethane		124-48-1
1,2-Dibromoethane		106-93-4
Chlorobenzene		108-90-7
1,1,1,2-Tetrachloroethane		630-20-6
Ethylbenzene		100-41-4
Xylenes		1330-20-7
Dibromomethane		74-95-3
Styrene		100-42-5
Bromoform		75-25-2
1,1,2,2-Tetrachloroethane		79-34-5
1,4-Dichlorobenzene		106-46-7
1,2-Dichlorobenzene		95-50-1
1,2-Dibromo-3-Chloropropane		96-12-8
Acrylonitrile		107-13-1
trans-1,4-Dichloro-2-Butene		110-57-6
Chloromethane		106-50-3
Vinyl Chloride		75-1-4
Bromomethane		74-83-9
Chloroethane		75-0-3
Trichlorofluoromethane		75-69-4
1,1-Dichloroethene		75-35-4
Acetone		67-64-1
Iodomethane		74-88-4
Carbon Disulfide		75-15-0
Methylene Chloride		75-9-2
trans-1,2-Dichloroethene		156-60-5
1,1-Dichloroethane		75-34-3
Vinyl Acetate		108-5-4
Cis-1,2-Dichloroethene		156-59-2
2-Butanone		78-93-3
Bromochloromethane		74-97-5
Chloroform		67-66-3
1,1,1-Trichloroethane		71-55-6
Carbon Tetrachloride		56-23-5
Benzene		71-43-2
1,1,2-Dichloroethane		107-6-2
Trichloroethene		79-1-6
1,1,2-Dichloropropane		78-87-5
Bromodichloromethane		75-27-4
Cis-1,3-Dichloropropene		10061-1-5

4-Methyl-2-Pentanone		108-10-1
Toluene		108-88-3
trans-1,3-Dichloropropene		10061-2-6
1,1,2-Trichloroethane		79-0-5
Tetrachloroethene		127-18-4
2-Hexanone		591-78-6
Dibromochloromethane		124-48-1
1,2-Dibromoethane		106-93-4
Chlorobenzene		108-90-7
1,1,1,2-Tetrachloroethane		630-20-6
Ethylbenzene		100-41-4
Xylenes		1330-20-7
Dibromomethane		74-95-3
Styrene		100-42-5
Bromoform		75-25-2
1,1,2,2-Tetrachloroethane		79-34-5
1,2,3-Trichloropropane		96-18-4
1,4-Dichlorobenzene		106-46-7
1,2-Dichlorobenzene		95-50-1
1,2-Dibromo-3-Chloropropane		96-12-8
Acrylonitrile		107-13-1
trans-1,4-Dichloro-2-Butene		110-57-6

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6003

JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
5105 HARBOUR TOWNE DRIVE
RALEIGH ,NC 27604

DATE COLLECTED: 11/02/06
DATE REPORTED : 11/24/06

REVIEWED BY:

PARAMETERS	Well #4	Well #5	Well #6	Well #7	Well #8	Analysis Date	Analyst	Method Code
PH (field measurement), Units	5.9	6.9	6.5	6.4	6.2	11/02/06	RJH	EPA150.1
Antimony, mg/l	<0.030	<0.030	<0.030	<0.030		11/08/06	CMF	EPA200.8
Antimony, mg/l					<0.030	11/10/06	CMF	EPA200.8
Arsenic, mg/l	<0.010	<0.010	<0.010	<0.010		11/08/06	CMF	EPA200.8
Arsenic, mg/l					<0.010	11/10/06	CMF	EPA200.8
Barium, mg/l	<0.500	<0.500	<0.500	<0.500		11/08/06	CMF	EPA200.8
Barium, mg/l					<0.500	11/10/06	CMF	EPA200.8
Beryllium, mg/l	<0.002	<0.002	<0.002	<0.002		11/08/06	CMF	EPA200.8
Beryllium, mg/l					<0.002	11/10/06	CMF	EPA200.8
Cadmium, mg/l	<0.001	<0.001	<0.001	<0.001		11/08/06	CMF	EPA200.8
Cadmium, mg/l					<0.001	11/10/06	CMF	EPA200.8
Cobalt, mg/l	<0.010	<0.010	<0.010	<0.010		11/08/06	CMF	EPA200.8
Cobalt, mg/l					<0.010	11/10/06	CMF	EPA200.8
Copper, mg/l	<0.200	<0.200	<0.200	<0.200		11/08/06	CMF	EPA200.8
Copper, mg/l					<0.200	11/10/06	CMF	EPA200.8
Total Chromium, mg/l	<0.010	<0.010	<0.010	<0.010		11/08/06	CMF	EPA200.8
Total Chromium, mg/l					<0.010	11/10/06	CMF	EPA200.8
Lead, mg/l	<0.010	<0.010	<0.010	<0.010		11/08/06	CMF	EPA200.8
Lead, mg/l					<0.010	11/10/06	CMF	EPA200.8
Nickel, mg/l	<0.050	<0.050	<0.050	<0.050		11/08/06	CMF	EPA200.8
Nickel, mg/l					<0.050	11/10/06	CMF	EPA200.8
Selenium, mg/l	<0.020	<0.020	<0.020	<0.020		11/08/06	CMF	EPA200.8
Selenium, mg/l					<0.020	11/10/06	CMF	EPA200.8
Silver, mg/l	<0.010	<0.010	<0.010	<0.010		11/08/06	CMF	EPA200.8
Silver, mg/l					<0.010	11/10/06	CMF	EPA200.8
Thallium, mg/l	<0.010	<0.010	<0.010	<0.010		11/08/06	CMF	EPA200.8
Thallium, mg/l					<0.010	11/10/06	CMF	EPA200.8
Vanadium, mg/l	<0.040	<0.040	<0.040	<0.040		11/08/06	CMF	EPA200.8
Vanadium, mg/l					<0.040	11/10/06	CMF	EPA200.8
Zinc, mg/l	<0.050	<0.050	<0.050	<0.050		11/08/06	CMF	EPA200.8
Zinc, mg/l					<0.050	11/10/06	CMF	EPA200.8
Turbidity, NTU	65	22	3.5	80	12	11/02/06	ACM	SM2130B
Conductivity (at 25c), uMhos	166	828	787	1203	882	11/02/06	RJH	SM2510B

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
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Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6003

JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
5105 HARBOUR TOWNE DRIVE
RALEIGH ,NC 27604

DATE COLLECTED: 11/02/06
DATE REPORTED : 11/24/06

REVIEWED BY:

PARAMETERS	Well #4	Well #5	Well #6	Well #7	Well #8	Analysis Date	Analyst	Method Code
Temperature, °C	18	19	18	18	19	11/02/06	RJH	SM2550B
Static Water Level, feet	6.43	6.32	9.08	7.99	9.65	11/02/06	RJH	
Well Depth, feet	15.98	21.06	16.65	16.33	20.36	11/02/06	RJH	

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Drinking Water ID: 37715
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ID#: 6003

JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
5105 HARBOUR TOWNE DRIVE
RALEIGH ,NC 27604

DATE COLLECTED: 11/02/06
DATE REPORTED : 11/24/06

REVIEWED BY:

PARAMETERS	SW-1	SW-2	SW-3	Well #1 Shallow	Well #2 Shallow	Analysis Date	Analyst	Method Code
PH (field measurement), Units	6.3	6.5	6.0	5.3	5.8	11/02/06	RJH	EPA150.1
Antimony, mg/l	<0.030	<0.030	<0.030	<0.030	<0.030	11/10/06	CMF	EPA200.8
Arsenic, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	11/10/06	CMF	EPA200.8
Barium, mg/l	<0.500	<0.500	<0.500	<0.500	<0.500	11/10/06	CMF	EPA200.8
Beryllium, mg/l	<0.002	<0.002	<0.002	<0.002	<0.002	11/10/06	CMF	EPA200.8
Cadmium, mg/l	0.005	0.002	0.001	<0.001	<0.001	11/10/06	CMF	EPA200.8
Cobalt, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	11/10/06	CMF	EPA200.8
Copper, mg/l	<0.200	<0.200	<0.200	<0.200	<0.200	11/10/06	CMF	EPA200.8
Total Chromium, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	11/10/06	CMF	EPA200.8
Lead, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	11/10/06	CMF	EPA200.8
Nickel, mg/l	<0.050	<0.050	<0.050	<0.050	<0.050	11/10/06	CMF	EPA200.8
Selenium, mg/l	<0.020	<0.020	<0.020	<0.020	<0.020	11/10/06	CMF	EPA200.8
Silver, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	11/10/06	CMF	EPA200.8
Thallium, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	11/10/06	CMF	EPA200.8
Vanadium, mg/l	<0.040	<0.040	<0.040	<0.040	<0.040	11/10/06	CMF	EPA200.8
Zinc, mg/l	<0.050	<0.050	<0.050	<0.050	<0.050	11/10/06	CMF	EPA200.8
Turbidity, NTU				33	11	11/02/06	ACM	SM2130B
Conductivity (at 25c), uMhos	105	163	125	885	280	11/02/06	RJH	SM2510B
Temperature, °C	17	17	17	19	19	11/02/06	RJH	SM2550B
Static Water Level, feet				7.20	10.15	11/02/06	RJH	
Well Depth, feet				17.21	16.57	11/02/06	RJH	

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Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6003

JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
5105 HARBOUR TOWNE DRIVE
RALEIGH ,NC 27604

DATE COLLECTED: 11/02/06
DATE REPORTED : 11/24/06

REVIEWED BY:

PARAMETERS	Well #9 Shallow	Analysis Date	Analyst	Method Code
PH (field measurement), Units	6.2	11/02/06	RJH	EPA150.1
Antimony, mg/l	<0.030	11/10/06	CMF	EPA200.8
Arsenic, mg/l	<0.010	11/10/06	CMF	EPA200.8
Barium, mg/l	<0.500	11/10/06	CMF	EPA200.8
Beryllium, mg/l	<0.002	11/10/06	CMF	EPA200.8
Cadmium, mg/l	<0.001	11/10/06	CMF	EPA200.8
Cobalt, mg/l	<0.010	11/10/06	CMF	EPA200.8
Copper, mg/l	<0.200	11/10/06	CMF	EPA200.8
Total Chromium, mg/l	<0.010	11/10/06	CMF	EPA200.8
Lead, mg/l	<0.010	11/10/06	CMF	EPA200.8
Nickel, mg/l	<0.050	11/10/06	CMF	EPA200.8
Selenium, mg/l	<0.020	11/10/06	CMF	EPA200.8
Silver, mg/l	<0.010	11/10/06	CMF	EPA200.8
Thallium, mg/l	<0.010	11/10/06	CMF	EPA200.8
Vanadium, mg/l	<0.040	11/10/06	CMF	EPA200.8
Zinc, mg/l	<0.050	11/10/06	CMF	EPA200.8
Turbidity, NTU	80	11/02/06	ACM	SM2130B
Conductivity (at 25c), uMhos	1354	11/02/06	RJH	SM2510B
Temperature, °C	19	11/02/06	RJH	SM2550B
Static Water Level, feet	11.61	11/02/06	RJH	
Well Depth, feet	21.45	11/02/06	RJH	

Environment 1, Incorporated

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CLIENT: JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
5105 HARBOUR TOWNE DRIVE
RALEIGH, NC 27604

CLIENT ID: 6003

ANALYST: MAO
DATE COLLECTED: 11/02/06
DATE ANALYZED: 11/14/06
DATE REPORTED: 11/24/06

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	Well #4	Well #5	Well #6	Well #7	Well #8
1. Chloromethane	<10.00	<10.00	<10.00	<10.00	<10.00
2. Vinyl Chloride	<10.00	<10.00	<10.00	<10.00	<10.00
3. Bromomethane	<10.00	<10.00	<10.00	<10.00	<10.00
4. Chloroethane	<10.00	<10.00	<10.00	<10.00	<10.00
5. Trichlorofluoromethane	<5.00	<5.00	<5.00	<5.00	<5.00
6. 1,1-Dichloroethene	<5.00	<5.00	<5.00	<5.00	<5.00
7. Acetone	<100.00	<100.00	<100.00	<100.00	<100.00
8. Iodomethane	<10.00	<10.00	<10.00	<10.00	<10.00
9. Carbon Disulfide	<100.00	<100.00	<100.00	<100.00	<100.00
10. Methylene Chloride	<10.00	<10.00	<10.00	<10.00	<10.00
11. trans-1,2-Dichloroethene	<5.00	<5.00	<5.00	<5.00	<5.00
12. 1,1-Dichloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
13. Vinyl Acetate	<50.00	<50.00	<50.00	<50.00	<50.00
14. Cis-1,2-Dichloroethene	<5.00	<5.00	<5.00	<5.00	<5.00
15. 2-Butanone	<100.00	<100.00	<100.00	<100.00	<100.00
16. Bromochloromethane	<5.00	<5.00	<5.00	<5.00	<5.00
17. Chloroform	<5.00	<5.00	<5.00	<5.00	<5.00
18. 1,1,1-Trichloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
19. Carbon Tetrachloride	<10.00	<10.00	<10.00	<10.00	<10.00
20. Benzene	<5.00	<5.00	<5.00	<5.00	<5.00
21. 1,2-Dichloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
22. Trichloroethene	<5.00	<5.00	<5.00	<5.00	<5.00
23. 1,2-Dichloropropane	<5.00	<5.00	<5.00	<5.00	<5.00
24. Bromodichloromethane	<5.00	<5.00	<5.00	<5.00	<5.00
25. Cis-1,3-Dichloropropene	<10.00	<10.00	<10.00	<10.00	<10.00
26. 4-Methyl-2-Pentanone	<100.00	<100.00	<100.00	<100.00	<100.00
27. Toluene	<5.00	<5.00	<5.00	<5.00	<5.00
28. trans-1,3-Dichloropropene	<10.00	<10.00	<10.00	<10.00	<10.00
29. 1,1,2-Trichloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
30. Tetrachloroethene	<5.00	<5.00	<5.00	<5.00	<5.00
31. 2-Hexanone	<50.00	<50.00	<50.00	<50.00	<50.00
32. Dibromochloromethane	<5.00	<5.00	<5.00	<5.00	<5.00
33. 1,2-Dibromoethane	<5.00	<5.00	<5.00	<5.00	<5.00
34. Chlorobenzene	<5.00	<5.00	<5.00	<5.00	<5.00
35. 1,1,1,2-Tetrachloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
36. Ethylbenzene	<5.00	<5.00	<5.00	<5.00	<5.00
37. Xylenes	<5.00	<5.00	<5.00	<5.00	<5.00
38. Dibromomethane	<10.00	<10.00	<10.00	<10.00	<10.00
39. Styrene	<10.00	<10.00	<10.00	<10.00	<10.00
40. Bromoform	<5.00	<5.00	<5.00	<5.00	<5.00
41. 1,1,2,2-Tetrachloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
42. 1,2,3-Trichloropropane	<15.00	<15.00	<15.00	<15.00	<15.00
43. 1,4-Dichlorobenzene	<5.00	<5.00	<5.00	<5.00	<5.00
44. 1,2-Dichlorobenzene	<5.00	<5.00	<5.00	<5.00	<5.00
45. 1,2-Dibromo-3-Chloropropane	<25.00	<25.00	<25.00	<25.00	<25.00
46. Acrylonitrile	<200.00	<200.00	<200.00	<200.00	<200.00
47. trans-1,4-Dichloro-2-Butene	<100.00	<100.00	<100.00	<100.00	<100.00

Environment 1, Incorporated

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GREENVILLE, N.C. 27835-7085

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CLIENT: JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
5105 HARBOUR TOWNE DRIVE
RALEIGH, NC 27604

CLIENT ID: 6003

ANALYST: MAO
DATE COLLECTED: 11/02/06
DATE ANALYZED: 11/14/06
DATE REPORTED: 11/24/06

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	SW-1	SW-2	SW-3	Well #1 Shallow	Well #2 Shallow
1. Chloromethane	<10.00	<10.00	<10.00	<10.00	<10.00
2. Vinyl Chloride	<10.00	<10.00	<10.00	<10.00	<10.00
3. Bromomethane	<10.00	<10.00	<10.00	<10.00	<10.00
4. Chloroethane	<10.00	<10.00	<10.00	<10.00	<10.00
5. Trichlorofluoromethane	<5.00	<5.00	<5.00	<5.00	<5.00
6. 1,1-Dichloroethene	<5.00	<5.00	<5.00	<5.00	<5.00
7. Acetone	<100.00	<100.00	<100.00	<100.00	<100.00
8. Iodomethane	<10.00	<10.00	<10.00	<10.00	<10.00
9. Carbon Disulfide	<100.00	<100.00	<100.00	<100.00	<100.00
10. Methylene Chloride	<10.00	<10.00	<10.00	<10.00	<10.00
11. trans-1,2-Dichloroethene	<5.00	<5.00	<5.00	<5.00	<5.00
12. 1,1-Dichloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
13. Vinyl Acetate	<50.00	<50.00	<50.00	<50.00	<50.00
14. Cis-1,2-Dichloroethene	<5.00	<5.00	<5.00	<5.00	<5.00
15. 2-Butanone	<100.00	<100.00	<100.00	<100.00	<100.00
16. Bromochloromethane	<5.00	<5.00	<5.00	<5.00	<5.00
17. Chloroform	<5.00	<5.00	<5.00	<5.00	<5.00
18. 1,1,1-Trichloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
19. Carbon Tetrachloride	<10.00	<10.00	<10.00	<10.00	<10.00
20. Benzene	<5.00	<5.00	<5.00	<5.00	<5.00
21. 1,2-Dichloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
22. Trichloroethene	<5.00	<5.00	<5.00	<5.00	<5.00
23. 1,2-Dichloropropane	<5.00	<5.00	<5.00	<5.00	<5.00
24. Bromodichloromethane	<5.00	<5.00	<5.00	<5.00	<5.00
25. Cis-1,3-Dichloropropene	<10.00	<10.00	<10.00	<10.00	<10.00
26. 4-Methyl-2-Pentanone	<100.00	<100.00	<100.00	<100.00	<100.00
27. Toluene	<5.00	<5.00	<5.00	<5.00	<5.00
28. trans-1,3-Dichloropropene	<10.00	<10.00	<10.00	<10.00	<10.00
29. 1,1,2-Trichloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
30. Tetrachloroethene	<5.00	<5.00	<5.00	<5.00	<5.00
31. 2-Hexanone	<50.00	<50.00	<50.00	<50.00	<50.00
32. Dibromochloromethane	<5.00	<5.00	<5.00	<5.00	<5.00
33. 1,2-Dibromoethane	<5.00	<5.00	<5.00	<5.00	<5.00
34. Chlorobenzene	<5.00	<5.00	<5.00	<5.00	<5.00
35. 1,1,1,2-Tetrachloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
36. Ethylbenzene	<5.00	<5.00	<5.00	<5.00	<5.00
37. Xylenes	<5.00	<5.00	<5.00	<5.00	<5.00
38. Dibromomethane	<10.00	<10.00	<10.00	<10.00	<10.00
39. Styrene	<10.00	<10.00	<10.00	<10.00	<10.00
40. Bromoform	<5.00	<5.00	<5.00	<5.00	<5.00
41. 1,1,2,2-Tetrachloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
42. 1,2,3-Trichloropropane	<15.00	<15.00	<15.00	<15.00	<15.00
43. 1,4-Dichlorobenzene	<5.00	<5.00	<5.00	<5.00	<5.00
44. 1,2-Dichlorobenzene	<5.00	<5.00	<5.00	<5.00	<5.00
45. 1,2-Dibromo-3-Chloropropane	<25.00	<25.00	<25.00	<25.00	<25.00
46. Acrylonitrile	<200.00	<200.00	<200.00	<200.00	<200.00
47. trans-1,4-Dichloro-2-Butene	<100.00	<100.00	<100.00	<100.00	<100.00

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
5105 HARBOUR TOWNE DRIVE
RALEIGH, NC 27604

CLIENT ID: 6003

ANALYST: MAO
DATE COLLECTED: 11/02/06
DATE ANALYZED: 11/14/06
DATE REPORTED: 11/24/06

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	Well #9 Shallow
1. Chloromethane	<10.00
2. Vinyl Chloride	<10.00
3. Bromomethane	<10.00
4. Chloroethane	<10.00
5. Trichlorofluoromethane	<5.00
6. 1,1-Dichloroethene	<5.00
7. Acetone	<100.00
8. Iodomethane	<10.00
9. Carbon Disulfide	<100.00
10. Methylene Chloride	<10.00
11. trans-1,2-Dichloroethene	<5.00
12. 1,1-Dichloroethane	<5.00
13. Vinyl Acetate	<50.00
14. Cis-1,2-Dichloroethene	<5.00
15. 2-Butanone	<100.00
16. Bromochloromethane	<5.00
17. Chloroform	<5.00
18. 1,1,1-Trichloroethane	<5.00
19. Carbon Tetrachloride	<10.00
20. Benzene	<5.00
21. 1,2-Dichloroethane	<5.00
22. Trichloroethene	<5.00
23. 1,2-Dichloropropane	<5.00
24. Bromodichloromethane	<5.00
25. Cis-1,3-Dichloropropene	<10.00
26. 4-Methyl-2-Pentanone	<100.00
27. Toluene	<5.00
28. trans-1,3-Dichloropropene	<10.00
29. 1,1,2-Trichloroethane	<5.00
30. Tetrachloroethene	<5.00
31. 2-Hexanone	<50.00
32. Dibromochloromethane	<5.00
33. 1,2-Dibromoethane	<5.00
34. Chlorobenzene	<5.00
35. 1,1,1,2-Tetrachloroethane	<5.00
36. Ethylbenzene	<5.00
37. Xylenes	<5.00
38. Dibromomethane	<10.00
39. Styrene	<10.00
40. Bromoform	<5.00
41. 1,1,2,2-Tetrachloroethane	<5.00
42. 1,2,3-Trichloropropane	<15.00
43. 1,4-Dichlorobenzene	<5.00
44. 1,2-Dichlorobenzene	<5.00
45. 1,2-Dibromo-3-Chloropropane	<25.00
46. Acrylonitrile	<200.00
47. trans-1,4-Dichloro-2-Butene	<100.00

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6003 **Week:** 46

JUDSON WHITEHURST (C&D LANDFILL)
C/O MR DAVID GARRETT
5105 HARBOUR TOWNE DRIVE
RALEIGH NC 27604

(919) 231-1818

DISINFECTION
- ☐ CHLORINE
- ☐ UV
- ☐ NONE
- ☐ _____

CHLORINE NEUTRALIZED AT COLLECTION																			
pH CHECK (LAB)																			
CONTAINER TYPE, P/G																			
CHEMICAL PRESERVATION																			
PARAMETERS																			