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May 6, 2008
File No. 09204072.03

Jaclynne Drummond, Hydrogeologist
Environmental Compliance
Solid Waste Section
North Carolina Department of Environment and Natural Resources
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

RECEIVED
MAY 14
SOLID WASTE SECTION

Subject: Leachate Spill Assessment
Buncombe County Subtitle D Landfill, Permit #11-07

Dear Jackie:

This response addresses issues noted in the department's letter dated March 6, 2008, concerning the information associated with the groundwater monitoring well MW-2 at the Buncombe County Landfill. In accordance with that letter the County arranged for the re-sampling of the well and those results are included herein for your information. As you will note the chromium and lead are not shown as exceeding the 2L standards in the current results.

As we previously discussed, the test results dating back to the original development of the landfill site have consistently shown the presence of metals either as a detection or exceedance. We have previously conducted re-development of some of the site wells to see if this might reduce the metals level, but that effort did not result a reduction. We also tried filtered sampling to see if that might help. Again, the results reflected that the metals were in solution.

In addition to the latest test results, I have included the historical records on MW-2 showing detections including exceedances. I have also included the same information on the background well MW-1 as a demonstration of the naturally occurring metals content of the groundwater at this site. Based on this information MW-2 does not appear to be impacted by the leachate spill.

If you have any questions, please feel free to give me a call.

Very truly yours,

C. Ed Hilton, Jr. P.E.
Vice President
SCS ENGINEERS

Raymond J. Dever, P.E., BCEE
Vice President
SCS ENGINEERS

Attachments

BUNCOMBE COUNTY LANDFILL GROUNDWATER RESULTS FOR MW-2 - SPRING 2008

6-May-08

FACILITY	WELL ID	CAS Numl	SWS ID	PARAMET	RESULT	UNITS	QUALIFIEI	METHOD	MDL	SWSL	DILUTION	ANALYSIS DATE
11-07	MW-2	630-20-6	190	1,1,1,2-Tetrachloroeth		ug/L	U	EPA 8260	0.33	5	1	03/28/2008
11-07	MW-2	71-55-6	200	1,1,1-Trichloroethane		ug/L	U	EPA 8260	0.48	1	1	03/28/2008
11-07	MW-2	79-34-5	191	1,1,2,2-Tetrachloroeth		ug/L	U	EPA 8260	0.4	3	1	03/28/2008
11-07	MW-2	79-00-5	202	1,1,2-Trichloroethane		ug/L	U	EPA 8260	0.29	1	1	03/28/2008
11-07	MW-2	75-34-3	75	1,1-Dichloroethane		ug/L	U	EPA 8260	0.32	5	1	03/28/2008
11-07	MW-2	75-35-4	77	1,1-Dichloroethene		ug/L	U	EPA 8260	0.56	5	1	03/28/2008
11-07	MW-2	96-18-4	206	1,2,3-Trichloropropane		ug/L	U	EPA 8260	0.41	1	1	03/28/2008
11-07	MW-2	96-12-8	67	1,2-Dibromo-3-chlorop		ug/L	U	EPA 8260	2.5	13	1	03/28/2008
11-07	MW-2	106-93-4	68	1,2-Dibromoethane (E		ug/L	U	EPA 8260	0.27	1	1	03/28/2008
11-07	MW-2	95-50-1	69	1,2-Dichlorobenzene		ug/L	U	EPA 8260	0.3	5	1	03/28/2008
11-07	MW-2	107-06-2	76	1,2-Dichloroethane		ug/L	U	EPA 8260	0.12	1	1	03/28/2008
11-07	MW-2	78-87-5	82	1,2-Dichloropropane		ug/L	U	EPA 8260	0.27	1	1	03/28/2008
11-07	MW-2	106-46-7	71	1,4-Dichlorobenzene		ug/L	U	EPA 8260	0.33	1	1	03/28/2008
11-07	MW-2	78-93-3	141	2-Butanone (MEK)		ug/L	U	EPA 8260	0.96	100	1	03/28/2008
11-07	MW-2	591-78-6	124	2-Hexanone		ug/L	U	EPA 8260	0.46	50	1	03/28/2008
11-07	MW-2	108-10-1	147	4-Methyl-2-pentanone		ug/L	U	EPA 8260	0.33	100	1	03/28/2008
11-07	MW-2	67-64-1	3	Acetone		ug/L	U	EPA 8260	2.2	100	1	03/28/2008
11-07	MW-2	107-13-1	8	Acrylonitrile		ug/L	U	EPA 8260	1.9	200	1	03/28/2008
11-07	MW-2	7440-36-0	13	Antimony		ug/L	U	EPA 6010	2.6	6	1	03/29/2008
11-07	MW-2	7440-38-2	14	Arsenic		ug/L	U	EPA 6010	2.7	10	1	03/29/2008
11-07	MW-2	7440-39-3	15	Barium	61.0	ug/L		EPA 6010	0.2	100	1	03/29/2008
11-07	MW-2	71-43-2	16	Benzene		ug/L	U	EPA 8260	0.25	1	1	03/28/2008
11-07	MW-2	7440-41-7	23	Beryllium		ug/L	U	EPA 6010	0.1	1	1	03/29/2008
11-07	MW-2	74-97-5	28	Bromochloromethane		ug/L	U	EPA 8260	0.17	3	1	03/28/2008
11-07	MW-2	75-27-4	29	Bromodichloromethan		ug/L	U	EPA 8260	0.18	1	1	03/28/2008
11-07	MW-2	75-25-2	30	Bromoform		ug/L	U	EPA 8260	0.26	3	1	03/28/2008
11-07	MW-2	74-83-9	136	Bromomethane		ug/L	U	EPA 8260	0.29	10	1	03/28/2008
11-07	MW-2	7440-43-9	34	Cadmium		ug/L	U	EPA 6010	0.5	1	1	03/29/2008
11-07	MW-2	75-15-0	35	Carbon disulfide		ug/L	U	EPA 8260	1.2	100	1	03/28/2008
11-07	MW-2	56-23-5	36	Carbon tetrachloride		ug/L	U	EPA 8260	0.25	1	1	03/28/2008
11-07	MW-2	108-90-7	39	Chlorobenzene		ug/L	U	EPA 8260	0.23	3	1	03/28/2008
11-07	MW-2	75-00-3	41	Chloroethane		ug/L	U	EPA 8260	0.54	10	1	03/28/2008
11-07	MW-2	67-66-3	44	Chloroform		ug/L	U	EPA 8260	0.14	5	1	03/28/2008
11-07	MW-2	74-87-3	137	Chloromethane		ug/L	U	EPA 8260	0.11	1	1	03/28/2008

11-07	MW-2	7440-47-3	51	Chromium		ug/L	U	EPA 6010	0.4	10	1	03/29/2008
11-07	MW-2	156-59-2	78	cis-1,2-Dichloroethene		ug/L	U	EPA 8260	0.19	5	1	03/28/2008
11-07	MW-2	10061-01-5	86	cis-1,3-Dichloroproper		ug/L	U	EPA 8260	0.13	1	1	03/28/2008
11-07	MW-2	7440-48-4	53	Cobalt		ug/L	U	EPA 6010	0.6	10	1	03/29/2008
11-07	MW-2	7440-50-8	54	Copper		ug/L	U	EPA 6010	0.3	10	1	03/29/2008
11-07	MW-2	124-48-1	66	Dibromochloromethan		ug/L	U	EPA 8260	0.21	3	1	03/28/2008
11-07	MW-2	74-95-3	139	Dibromomethane		ug/L	U	EPA 8260	0.21	10	1	03/28/2008
11-07	MW-2	100-41-4	110	Ethylbenzene		ug/L	U	EPA 8260	0.3	1	1	03/28/2008
11-07	MW-2	SW320	320	Field pH	6.54	Std. Units				NE	1	04/09/2008
11-07	MW-2	SW323	323	Field Speci	182	umhos/cm				NE	1	04/09/2008
11-07	MW-2	SW325	325	Field Temp	10.9	deg C				NE	1	04/09/2008
11-07	MW-2	74-88-4	142	Iodomethane		ug/L	U	EPA 8260	0.32	10	1	03/28/2008
11-07	MW-2	7439-92-1	131	Lead		ug/L	U	EPA 6010	4	10	1	03/29/2008
11-07	MW-2	1330-20-7	346	m&p-Xylene		ug/L	U	EPA 8260	0.66	5	1	03/28/2008
11-07	MW-2	75-09-2	140	Methylene Chloride		ug/L	U	EPA 8260	0.97	1	1	03/28/2008
11-07	MW-2	7440-02-0	152	Nickel		ug/L	U	EPA 6010	1.7	50	1	03/29/2008
11-07	MW-2	96-47-6	408	o-Xylene		ug/L	U	EPA 8260	0.23	NE	1	03/28/2008
11-07	MW-2	7782-49-2	183	Selenium		ug/L	U	EPA 6010	3.8	10	1	03/29/2008
11-07	MW-2	7440-22-4	184	Silver		ug/L	U	EPA 6010	0.1	10	1	03/29/2008
11-07	MW-2	SW318	318	Static Wate	8.06	feet				NE	1	04/09/2008
11-07	MW-2	100-42-5	186	Styrene		ug/L	U	EPA 8260	0.26	1	1	03/28/2008
11-07	MW-2	127-18-4	192	Tetrachloroethene		ug/L	U	EPA 8260	0.46	1	1	03/28/2008
11-07	MW-2	7440-28-0	194	Thallium		ug/L	U	EPA 6010	3	5.5	1	03/29/2008
11-07	MW-2	108-88-3	196	Toluene		ug/L	U	EPA 8260	0.26	1	1	03/28/2008
11-07	MW-2	156-60-5	79	trans-1,2-Dichloroethe		ug/L	U	EPA 8260	0.49	5	1	03/28/2008
11-07	MW-2	10061-02-6	87	trans-1,3-Dichloroprop		ug/L	U	EPA 8260	0.26	1	1	03/28/2008
11-07	MW-2	110-57-6	73	trans-1,4-Dichloro-2-bu		ug/L	U	EPA 8260	1	100	1	03/28/2008
11-07	MW-2	79-01-6	201	Trichloroethene		ug/L	U	EPA 8260	0.47	1	1	03/28/2008
11-07	MW-2	75-69-4	203	Trichlorofluoromethan		ug/L	U	EPA 8260	0.2	1	1	03/28/2008
11-07	MW-2	SW330	330	Turbidity	2.13	NTU				NE	1	04/09/2008
11-07	MW-2	7440-62-2	209	Vanadium		ug/L	U	EPA 6010	0.2	25	1	03/29/2008
11-07	MW-2	108-05-4	210	Vinyl acetate		ug/L	U	EPA 8260	0.35	50	1	03/28/2008
11-07	MW-2	75-01-4	211	Vinyl chloride		ug/L	U	EPA 8260	0.62	1	1	03/28/2008
11-07	MW-2	1330-20-7	346	Xylene (Total)		ug/L	U	EPA 8260	0.66	5	1	03/28/2008

Detections by Site ID

MW-2

Facility Name	Analyte		SampleDate	Result
Buncombe County New Facility				
	Antimony			
	DENR WQS:	*ug/l*		
			10/28/2002	13 ug/l
	Arsenic			
	DENR WQS:	10 *ug/l*		
			10/28/2002	5.5 ug/l
			3/23/2006	6.3 ug/l
	Barium			
	DENR WQS:	2000 *ug/l*		
			4/15/1998	527 ug/L
			11/11/1998	441 ug/L
			4/27/1999	91 ug/L
			11/2/1999	240 ug/L
			4/4/2000	213 ug/l
			11/6/2000	210 ug/l
			4/30/2001	140 ug/l
			10/22/2001	680 ug/l
			4/29/2002	1100 ug/l
			3/24/2003	120 ug/l
			9/29/2003	410 ug/l
			3/29/2004	280 ug/l
			9/27/2004	1100 ug/l
			4/11/2005	1000 ug/l
			9/26/2005	610 ug/l
			3/23/2006	970 ug/l
			9/28/2006	300 ug/l
			9/28/2007	1080 ug/L

Facility Name	Analyte		SampleDate	Result
	Beryllium			
	DENR WQS:	*ug/l*		
			4/15/1998	2 ug/L I
			11/11/1998	1 ug/L I
			11/6/2000	2.8 ug/l
			10/22/2001	3.2 ug/l
			4/29/2002	5.7 ug/l
			9/27/2004	2.5 ug/l
			4/11/2005	4.5 ug/l
			9/26/2005	3 ug/l
			3/23/2006	4 ug/l
	Cadmium			
	DENR WQS:	5 *ug/l*		
			4/15/1998	2 ug/L I
			10/22/2001	6.3 ug/l
			4/29/2002	10 ug/l
	Carbon disulfide			
	DENR WQS:	700 *ug/l*		
			9/27/2004	2.9 ug/l
	Chromium			
	DENR WQS:	50 *ug/l*		
			4/15/1998	40 ug/L I
			11/11/1998	38 ug/L
			4/27/1999	7 ug/L
			11/2/1999	19 ug/L
			4/4/2000	16 ug/l
			11/6/2000	7 ug/l
			10/22/2001	55 ug/l
			4/29/2002	68 ug/l
			3/24/2003	7 ug/l
			9/29/2003	26 ug/l
			3/29/2004	18 ug/l
			9/27/2004	57 ug/l
			4/11/2005	83 ug/l
			9/26/2005	46 ug/l
			3/23/2006	85 ug/l
			9/28/2006	21. ug/l
			9/28/2007	59.1 ug/L

Facility Name	Analyte		SampleDate	Result
	Cobalt			
	DENR WQS:	*ug/l*		
			4/15/1998	42 ug/L
			11/11/1998	31 ug/L
			11/2/1999	17 ug/L I
			4/4/2000	13 ug/l I
			10/22/2001	44 ug/l
			4/29/2002	68 ug/l
			3/24/2003	5.4 ug/l
			9/29/2003	27 ug/l
			3/29/2004	19 ug/l
			9/27/2004	75 ug/l
			4/11/2005	87 ug/l
			9/26/2005	46 ug/l
			3/23/2006	81 ug/l
			9/28/2006	19. ug/l
			9/28/2007	49.9 ug/L
	Copper			
	DENR WQS:	1000 *ug/l*		
			4/15/1998	28 ug/L
			11/11/1998	23 ug/L
			4/27/1999	5 ug/L
			11/2/1999	10 ug/L I
			4/4/2000	10 ug/l I
			10/22/2001	34 ug/l
			4/29/2002	50 ug/l
			3/24/2003	4 ug/l
			9/29/2003	20 ug/l
			3/29/2004	13 ug/l
			9/27/2004	46 ug/l
			4/11/2005	61 ug/l
			9/26/2005	28 ug/l
			3/23/2006	63 ug/l
			9/28/2006	13. ug/l
			9/28/2007	50.9 ug/L
	1,2-Dichlorobenzene			
	DENR WQS:	620 *ug/l*		
			3/27/2007	1.8 ug/l

Facility Name	Analyte		SampleDate	Result
	Lead			
	DENR WQS:	15 *ug/l*		
			4/15/1998	20 ug/L
			11/11/1998	19 ug/L
			11/2/1999	5 ug/L I
			4/4/2000	4 ug/l I
			10/22/2001	22 ug/l
			4/29/2002	33 ug/l
			9/29/2003	12 ug/l
			3/29/2004	11 ug/l
			9/27/2004	31 ug/l
			4/11/2005	47 ug/l
			9/26/2005	22 ug/l
			3/23/2006	45 ug/l
			9/28/2006	8.0 ug/l
			9/28/2007	27.8 ug/L
	Nickel			
	DENR WQS:	100 *ug/l*		
			4/15/1998	49 ug/L
			11/11/1998	40 ug/L
			4/27/1999	5 ug/L I
			11/2/1999	18 ug/L I
			4/4/2000	16 ug/l I
			11/6/2000	6.5 ug/l
			10/22/2001	61 ug/l
			4/29/2002	92 ug/l
			3/24/2003	6.7 ug/l
			9/29/2003	32 ug/l
			3/29/2004	21 ug/l
			9/27/2004	66 ug/l
			4/11/2005	97 ug/l
			9/26/2005	54 ug/l
			3/23/2006	92 ug/l
			9/28/2006	23. ug/l
			9/28/2007	80.6 ug/L
	Thallium			
	DENR WQS:	*ug/l*		
			9/28/2007	5.7 ug/L

Facility Name	Analyte		SampleDate	Result
	Vanadium			
	DENR WQS:	*ug/l*		
			4/15/1998	47 ug/L
			11/11/1998	36 ug/L
			11/2/1999	16 ug/L I
			4/4/2000	14 ug/l I
			11/6/2000	7.8 ug/l
			10/22/2001	77 ug/l
			4/29/2002	87 ug/l
			3/24/2003	6.8 ug/l
			9/29/2003	30 ug/l
			3/29/2004	23 ug/l
			9/27/2004	74 ug/l
			4/11/2005	98 ug/l
			9/26/2005	59 ug/l
			3/23/2006	92 ug/l
			9/28/2006	23. ug/l
			9/28/2007	76.1 ug/L
	Zinc			
	DENR WQS:	2100 *ug/l*		
			4/15/1998	190 ug/L
			11/11/1998	145 ug/L
			4/27/1999	31 ug/L I
			11/2/1999	70 ug/L I
			4/4/2000	61 ug/l I
			11/6/2000	25 ug/l
			4/30/2001	22 ug/l
			10/22/2001	230 ug/l
			4/29/2002	360 ug/l
			3/24/2003	23 ug/l
			9/29/2003	120 ug/l
			3/29/2004	78 ug/l
			9/27/2004	260 ug/l
			4/11/2005	330 ug/l
			9/26/2005	190 ug/l
			3/23/2006	330 ug/l
			9/28/2006	85. ug/l
			9/28/2007	311 ug/L

Detections by Site ID

MW-1

Facility Name	Analyte		SampleDate	Result
Buncombe County New Facility				
	Antimony			
	DENR WQS:	*ug/l*		
			4/12/2005	6.6 ug/l
	Barium			
	DENR WQS:	2000 *ug/l*		
			4/14/1998	528 ug/L
			11/9/1998	709 ug/L
			4/27/1999	419 ug/L
			11/2/1999	240 ug/L
			4/4/2000	108 ug/l
			11/6/2000	610 ug/l
			5/1/2001	570 ug/l
			10/23/2001	430 ug/l
			4/30/2002	280 ug/l
			10/28/2002	350 ug/l
			3/25/2003	190 ug/l
			9/29/2003	290 ug/l
			3/30/2004	130 ug/l
			9/27/2004	190 ug/l
			4/12/2005	150 ug/l
			10/10/2005	180 ug/l
			3/23/2006	260 ug/l
			9/27/2006	390 ug/l
			3/27/2007	220 ug/l
			9/27/2007	314 ug/L
	Beryllium			
	DENR WQS:	*ug/l*		
			11/6/2000	2.1 ug/l
			4/30/2002	2 ug/l
	Cadmium			
	DENR WQS:	5 *ug/l*		
			10/23/2001	3.1 ug/l
			4/30/2002	1.4 ug/l
			10/28/2002	2.7 ug/l

Facility Name	Analyte		SampleDate	Result
	Chromium			
	DENR WQS:	50 *ug/l*		
			4/14/1998	60 ug/L
			11/9/1998	176 ug/L
			4/27/1999	47 ug/L
			11/2/1999	22 ug/L
			4/4/2000	1 ug/l I
			11/6/2000	9.9 ug/l
			10/23/2001	34 ug/l
			4/30/2002	23 ug/l
			10/28/2002	42 ug/l
			3/25/2003	5.1 ug/l
			9/29/2003	20 ug/l
			3/30/2004	2.9 ug/l
			9/27/2004	6.4 ug/l
			3/23/2006	15 ug/l
			9/27/2006	28. ug/l
			9/27/2007	12.9 ug/L
	Cobalt			
	DENR WQS:	*ug/l*		
			4/14/1998	29 ug/L
			11/9/1998	37 ug/L
			4/27/1999	19 ug/L I
			11/2/1999	12 ug/L I
			11/6/2000	34 ug/l
			5/1/2001	30 ug/l
			10/23/2001	17 ug/l
			4/30/2002	11 ug/l
			10/28/2002	15 ug/l
			9/29/2003	9 ug/l
			10/10/2005	6.1 ug/l
			3/23/2006	6.5 ug/l
			9/27/2006	12. ug/l

Facility Name	Analyte		SampleDate	Result
	Copper			
	DENR WQS:	1000 *ug/l*		
			4/14/1998	56 ug/L
			11/9/1998	76 ug/L
			4/27/1999	43 ug/L
			11/2/1999	16 ug/L I
			11/6/2000	21 ug/l
			5/1/2001	14 ug/l
			10/23/2001	48 ug/l
			4/30/2002	23 ug/l
			10/28/2002	44 ug/l
			3/25/2003	8.3 ug/l
			9/29/2003	24 ug/l
			3/30/2004	5 ug/l
			9/27/2004	11 ug/l
			4/12/2005	2.8 ug/l
			3/23/2006	15 ug/l
			9/27/2006	32. ug/l
			3/27/2007	13. ug/l
			9/27/2007	23.0 ug/L
	Lead			
	DENR WQS:	15 *ug/l*		
			11/9/1998	10 ug/L I
			4/27/1999	6 ug/L I
	Nickel			
	DENR WQS:	100 *ug/l*		
			4/14/1998	40 ug/L
			11/9/1998	120 ug/L
			4/27/1999	33 ug/L
			11/2/1999	16 ug/L I
			11/6/2000	21 ug/l
			5/1/2001	13 ug/l
			10/23/2001	30 ug/l
			4/30/2002	18 ug/l
			10/28/2002	30 ug/l
			3/25/2003	5.3 ug/l
			9/29/2003	15 ug/l
			3/23/2006	10 ug/l
			9/27/2006	20. ug/l
			9/27/2007	13.2 ug/L

Facility Name	Analyte		SampleDate	Result
	Thallium			
	DENR WQS:	*ug/l*		
			9/27/2007	6.0 ug/L
	Vanadium			
	DENR WQS:	*ug/l*		
			4/14/1998	105 ug/L
			11/9/1998	131 ug/L
			4/27/1999	72 ug/L
			11/2/1999	34 ug/L
			11/6/2000	33 ug/l
			5/1/2001	17 ug/l
			10/23/2001	75 ug/l
			4/30/2002	41 ug/l
			10/28/2002	71 ug/l
			3/25/2003	13 ug/l
			9/29/2003	39 ug/l
			3/30/2004	9.1 ug/l
			9/27/2004	18 ug/l
			4/12/2005	6.6 ug/l
			3/23/2006	28 ug/l
			9/27/2006	59. ug/l
			3/27/2007	25. ug/l
			9/27/2007	40.2 ug/L
	Zinc			
	DENR WQS:	2100 *ug/l*		
			4/14/1998	90 ug/L
			11/9/1998	102 ug/L
			4/27/1999	55 ug/L |
			11/2/1999	34 ug/L |
			11/6/2000	200 ug/l
			5/1/2001	37 ug/l
			10/23/2001	51 ug/l
			4/30/2002	28 ug/l
			10/28/2002	48 ug/l
			9/29/2003	31 ug/l
			4/12/2005	16 ug/l
			3/23/2006	34 ug/l
			9/27/2006	37. ug/l
			3/27/2007	19. ug/l
			9/27/2007	38.3 ug/L