

Table 1. Newcastle Demolition Landfill March 2009 Groundwater Monitoring Results

Analyte	Units	GWQS	MCL	MW-1 2/19/2008	MW-2 2/19/2008	MW-2D 2/19/2008	MW-3 2/13/2008	MW-5 2/13/2008	SW-6 2/13/2008	SW-7 2/13/2008
Field Parameters										
pH	s.u.	6.5-8.5 **		7.08	7.21	--	7.47	6.63	7.64	8.29
Specific Conductivity	µmhos/cm		700 **	915	896	--	820	630	920	280
Temperature (C)	C			9.65	10.51	--	8.74	11.17	11.52	6.82
Dissolved Oxygen	mg/L			0.53	0.28	--	0.61	0.44	10.46	12.49
Conventional Parameters										
Ammonia-N	mg/L			0.102	0.804	0.811	0.438	0.055	0.172	0.014
Chloride	mg/L	250 **	250 **	3.1	15.2	15.1	6.9	5.7	5.1	5.3
COD	mg/L			5.00 U	8.53	9.82	8.21	5.95	5.00 U	15.3
Hardness	mg/L			490	310	300	100	300	320	92
Nitrate-N	mg/L	10 *	10 *	0.018	0.033	0.047	0.042	0.017	0.109	1.54
Nitrate-Nitrite	mg/L			0.018	0.033	0.047	0.042	0.017	0.109	1.55
Nitrite-N	mg/L		1 *	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010
Sulfate	mg/L	250 **	250 **	287	27.8	28.0	31.9	95.2	147	39.0
TDS	mg/L	500 **	500 **	712	564	563	504	403	595	174
TOC	mg/L			1.50 U	3.91	3.41	3.49	2.24	1.58	3.32
Dissolved Metals										
Calcium	mg/L			132	76.9	74.3	22.0	68.9	63.4	21.2
Iron	mg/L	0.3 **	0.3 **	1.07	0.95	0.79	1.15	4.23	1.17	0.07
Magnesium	mg/L			39.9	29.2	27.5	12.1	31.0	38.9	9.43
Manganese	mg/L	0.05 **	0.05 **	0.092	0.183	0.149	0.026	0.519	0.293	0.036
Zinc	mg/L	5 **	5 **	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U

Notes:

GWQS = Water Quality Standards for Ground Waters of the State of Washington (173-200 WAC)

MCL = Maximum Contaminant Level, Washington State Drinking Water Regulations (Chapter 246-290 WAC)

* = Primary contaminant criteria

** = Secondary contaminant criteria

*** = Carcinogenic contaminant criteria

█ = Exceeds GWQS or MCL

U = Compound undetected at the specified reporting limit

-- = Not analyzed

