

Table 1. Newcastle Demolition Landfill March 2009 Groundwater Monitoring Results

Analyte	Units	GWQS	MCL	MW-1 3/4/2009	MW-2 3/4/2009	MW-2D 3/4/2009	MW-3 3/4/2009	SW-6 3/4/2009	SW-7 3/4/2009
Field Parameters									
Temperature (C)	C			10.09	10.53	--	13.23	11.76	8.28
pH	s.u.	6.5-8.5 **		7.07	7.10	--	7.33	7.50	8.31
Specific Conductivity	µmhos/cm		700 **	905	956	--	791	944	381
Dissolved Oxygen	mg/L			1.81	0.59	--	0.78	9.71	10.40
Conventional Parameters									
Ammonia-N	mg/L			0.059	0.563	0.538	0.285	0.118	0.066
COD	mg/L	250 **	250 **	5.00 U	6.78	7.43	10.4	5.00 U	5.00 U
Chloride	mg/L			3.3	17.3	17.4	6.8	4.6	7.3
Hardness	mg/L			520	410	400	110	330	130
Nitrate-N	mg/L	10 *	10 *	0.044	0.108	0.110	0.058	0.069	0.836
Nitrate-Nitrite	mg/L			0.044	0.108	0.110	0.058	0.069	0.836
Nitrite-N	mg/L		1 *	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Sulfate	mg/L	250 **	250 **	259	25.4	25.3	27.9	158	60.0
TDS	mg/L	500 **	500 **	649	549	551	457	587	222
TOC	mg/L			1.50 U	3.85	3.82	3.24	1.50 U	2.58
Dissolved Metals									
Calcium	mg/L			138	99.3	97.7	22.1	65.9	29.4
Iron	mg/L	0.3 **	0.3 **	1.14	0.89	0.88	0.99	0.05 U	0.10
Magnesium	mg/L			42.6	39.1	38.7	12.1	39.0	14.1
Manganese	mg/L	0.05 **	0.05 **	0.089	0.144	0.143	0.019	0.283	0.041
Zinc	mg/L	5 **	5 **	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