

Samples from waste pits at UIC class 2 sites in West Virginia

Substance	47-085-09669 2013	47-019-00460 2009	MCL/SMCL
pH	6.09	7.03	
Chloride	78,976 mg/l	36,200 mg/l	250 mg/l
TDS	127,566 mg/l	52,700 mg/l	
TSS	778 mg/l		
Surfactants	12.8 mg/l		
Aluminum	0.85 mg/l		0.05 to 0.2 mg/l
Arsenic	0.78 mg/l		0.01 mg/l
Barium	553 mg/l	223 mg/l	2 mg/l
Cadmium	ND		0.005 mg/l
Chromium	ND		0.1 mg/l
Iron	113 mg/l	47.1 mg/l	0.3 mg/l
Lead	ND		0.015 mg/l
Manganese	6.87 mg/l	5.43 mg/l	0.05 mg/l ^a
Sodium	26,900 mg/l	15,000 mg/l	^b
Total Sulfates	250 mg/l		
Organics			
TPH GRO	23.7 mg/l	15.6 mg/l	
TPH DRO	ND	ND	
TPH ORO	20.9 mg/l	ND	
Benzene	0.1421 mg/l	0.0263 mg/l	0.005 mg/l
Ethylbenzene	0.0297 mg/l	0.061 mg/l	0.7 mg/l
Toluene	0.3129 mg/l	0.248 mg/l	1 mg/l
Xylene	0.4075 mg/l	0.316 mg/l	10 mg/l
Isotopes			
Radium 226	3,054 ± 358 pCi/l		Radium 226 and 228 combined 5 pCi/l
Radium 228	284 ± 51.6 pCi/l		

^a The EPA's health advisory concentration for manganese is 0.300 mg/l. Manganese in drinking water is tied to severe IQ deficits for children.

^b The EPA's health advisory concentration for sodium is 20 mg/l because some people with heart conditions require low sodium diets.