

**Bridgeton Landfill and West Lake Landfill
Updated Analytical Results for Storm Water
(Includes Radium-226 and Radium-228)
February 26, 2016**

Following the historic rainfall that occurred in the St. Louis area, the department responded to concerns of excess surface water flowing along the northeastern boundary of the West Lake Landfill by assessing the situation and collecting storm water samples for analyses. The sample was sent to the department's contract laboratory and analyzed for gross alpha, gross beta, isotopic Uranium, Radium-226 and Radium-228.

Due to the stringent standards for drinking water, the department chose to compare the storm water sample results with state drinking water standards. Results indicate gross alpha, gross beta, total computed Uranium, and combined Radium were below drinking water Maximum Contaminant Levels or screening values. The table below has been updated with laboratory results for Radium-226 and Radium-228. All data has been shared with the EPA.

Bridgeton Landfill / West Lake Landfill Analytical Results for Radionuclides in Storm Water Sampled on December 28, 2015					
Radionuclide	MCL	Result	Error	MDA	Units
Gross Alpha	15	7.94 J	3.85	6.46	pCi/L
Gross Beta	50 ^A	12.40	3.73	6.58	pCi/L
Total Uranium^B	30	4.1	1.8	1.0	µg/L
Uranium-234	-	1.47	0.65	0.32	pCi/L
Uranium-235	-	0.22 U	0.29	0.40	pCi/L
Uranium-238	-	1.34	0.61	0.28	pCi/L
Radium-226	5 ^C	-0.40 U	0.48	1.63	pCi/L
Radium-228		0.96 U	1.68	3.49	pCi/L
^A Screening Level for additional testing ^B Total Uranium was computed from Isotopic Uranium analysis ^C MCL is for combined Ra-226 + 228 pCi/L = Pico Curies per Liter mg/L = Milligram per Liter MDA = Minimum Detectable Activity MCL = Drinking Water Maximum Contaminant Level U = Laboratory Data Qualifier: Radionuclide was not detected above the MDA J = Laboratory Data Qualifier: Value is estimated					