

Table 11
Comparison of Proposed Landfill Groundwater Monitoring Results to Screening Levels – November 2013 Sampling Event (a)
Labadie Energy Center, Franklin County, MO
Ameren Missouri

Monitoring Well ID	Well Depth (feet, btor)	pH	Chloride	Fluoride	Sulfate	TDS	Aluminum	Antimony	Arsenic	Boron	Barium	Beryllium	Cadmium	Cobalt	Chromium	Copper	Iron	Manganese	Mercury	Molybdenum	Nickel	Lead	Selenium	Silver	Thallium	Zinc	
		S.U.	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L		
		MCL/SMCL (b)	NA	250	4	250	500	50	6	10	NA	2000	0.004	5	NA	100	1300	300	50	2	NA	NA	15	50	100	2	500
	RSL (c)	NA	NA	0.62	NA	NA	16000	6	0.045	10	3100	2900	0.016	6.9	4.7	16000	620	11000	320	4.3	78	0.3	NA	78	71	0.16	470
MW-1	27.76	6.63	6	0.2	24	602				103.0	349			2.8			192	425			0.0076		62.5				
MW-2	26.35	6.66	5	0.17	44	616			1.8	116.0	196						1090	32			0.0042		35.1				
MW-3	25.15	6.77	5	0.14	75	558			1.0	81.3	313			3.1			1020	1840			0.0071					3.2	
MW-4	25.54	6.87	6	0.15	25	506			0.9	83.5	213						21.1	33.1			0.0039		36			4.5	
MW-5	24.68	6.82	3	0.18	18	476			0.8	65.4	240						8.6	6.7					27				
MW-6	23.1	6.78	3	0.16	20	536			0.8	69.1	221						7.1	1.6			0.0047						
MW-7	21.94	6.83	3	0.17	40	568			2.2	60.6	296			3.9			855	1060			0.0046		76.9				
MW-8	21.82	6.76	3	0.24	22	434			1.1	53.7	276						389	556			0.0055		33.8				
MW-9	20.18	7.00	3	0.22	21	382			1.5	49.9	225						447	712					50.4				
MW-10	21.45	6.82	3	0.16	33	502			0.9	63.6	255						640						53.1				
MW-11	20.95	6.76	3	0.14	51	542				69.0	191						18	35.7			0.0062		39.1				
MW-12	20.48	6.79	3	0.14	43	516			1.3	63.4	194						20.4	8.1			0.0042		44.6				
MW-13	20.4	6.79	3	0.15	61	538			1.2	76.8	173						9	1.6			0.0064		92.5			2.5	
MW-14	19.79	6.74	3	0.17	41	496			3.1	64.2	202			3.2			460	156			0.0070		66.5				
MW-15	17.91	6.74	3	0.17	23	464			1.0	59.2	229							26.7			0.0050					2.2	
MW-16	18.5	6.69	3	0.16	49	580			1.0	88.0	270						103	772			0.0122		32.5				
MW-17	19.72	6.77	3	0.19	33	502			0.8	68.2	218						17	4.9			0.0036						
MW-18	18.24	6.87	3	0.25	32	470			1.3	142.0	210						99.8	1110			0.0033						
MW-19	18.19	6.82	3	0.2	55	470			1.3	76.6	230						407	806			0.0063						
MW-20	17.62	6.87	3	0.25	36	404			1.1	61.2	174						7.1	3.3			0.0039		33.8				
MW-21	17.71	6.96	4	0.29	25	330			4.4	86.0	155		0.7				1930	536		3.4	0.0033					8.3	
MW-22	17.92	6.89	4	0.25	37	528			49.9	169.0	315						23500	1720				0.5					
MW-23	19.65	6.82	6	0.23	9	620	62.4		26.2	209.0	274						18300	467									
MW-24	19.99	6.87	4	0.2	36	438				58.7	193						21.1	4.6			0.0034		40.4			3	
MW-25	20.84	6.97	4	0.14	32	464				148.0	481						174	762			0.0043						
MW-26	23	6.93	4	0.18	30	446				59.7	212						15	131									
MW-27	25.91	6.65	16	0.18	43	606				104.0	242						129	149			0.0092	0.4	37.6			2.2	
MW-28	27.06	6.64	9	0.18	24	542				92.1	249						29.9	12.7			0.0069		41.9			4.8	
TMW-1	21.58	6.89	5	0.25	85	576			6.1	99.5	283			3.2			784	3620			0.0043						

Notes:

Blank data cells indicate a non-detect value.

btor - below top of riser.

MCL - Maximum Contaminant Level.

mg/L - Milligrams per liter.

NA - Not available.

RSL - Regional Screening Level.

SMCL - Secondary Maximum Contaminant Level. Value used if no MCL available.

S.U. - Standard Units.

TDS - Total Dissolved Solids.

ug/L - Micrograms per liter.

USEPA - United States Environmental Protection Agency.

(a) - Numerical values were obtained from the Ameren Missouri Labadie Energy Center Utility Waste Landfill, Solid Waste Disposal Area, Franklin County, Missouri,

Groundwater Detection Monitoring Wells Installation Report prepared by Reitz & Jens, Inc., Samples collected on 11/19/2013.

(b) - USEPA 2012 Edition of the Drinking Water Standards and Health Advisories. Spring 2012. <http://water.epa.gov/drink/contaminants/index.cfm>; adopted as Missouri state values at 10 CSR 60-4.

(c) - USEPA Regional Screening Levels (November 2013). Values for tapwater.

http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm

greater than MCL
greater than MCL and RSL
greater than RSL

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