

Summary of selected water-quality data from ground-water samples collected from February 1995 through December 2013 as a part of the *Equus* Beds Ground-Water Recharge Project.

[mg/L, milligrams per liter; DWA, drinking water advisory; SDWR, secondary drinking water regulation; <, less than; MCL, maximum contaminant level; µg/L, micrograms per liter; cols/100 mL, colonies per 100 milliliters; MCLG, maximum contaminant level goal]

Aquifer Storage and Recovery (ASR) Phase 1 Deep Sites

Compound or fecal indicator bacteria	Water-quality criteria	Number of Samples	Minimum	Maximum	Mean	Median	Percentage of Samples Detected	Percentage of Samples Exceeding Criteria	Percentage of Replicate Samples Exceeding Criteria
Sodium, dissolved (mg/L)	20 mg/L (DWA) ^a	341	19.4	86	37.9	34.7	100.0	98.8	100.0
Sulfate, dissolved (mg/L)	250 mg/L (SDWR) ^a	341	5	188	27.8	21.5	99.4	0.0	0.0
Chloride, dissolved (mg/L)	250 mg/L (SDWR) ^a	341	--	218	32.869*	*10.400	84.5	0.0	0.0
Nitrite plus nitrate as nitrogen, dissolved (mg/L)	10 mg/L (MCL) ^a	341	--	6	0.282*	*0.022	43.4	0.0	0.0
Arsenic, dissolved (µg/L)	10 µg/L (MCL) ^a	341	--	20	6.465*	*5.430	92.7	17.6	7.1
Iron, dissolved (µg/L)	300 µg/L (SDWR) ^a	341	--	3030	414.681*	*129.986	48.7	32.6	35.7
Manganese, dissolved (µg/L)	50 µg/L (SDWR) ^a	341	5	768	276.1	263.0	99.1	91.5	100.0
Total coliform bacteria (cols/100 mL)	0 cols/100 mL (MCLG) ^a	255	--	24	0.817*	*0.063	14.9	14.9	13.6
Fecal coliform bacteria ^c (cols/100 mL)	200 cols/100mL (MCLG) ^d	248	0.5	11	0.6	0.5	3.2	0.0	0.0
	2,000 cols/100mL (MCLG) ^d	111	0.5	16	0.7	0.5	1.8	0.0	0.0
<i>Escherichia coli</i> ^e (cols/100 mL)	262 cols/100mL (MCLG) ^f	92	0.5	13	0.7	0.5	5.4	0.0	0.0
	2,358 cols/100mL (MCLG) ^f	11	0.5	1	0.5	0.5	0.0	0.0	0.0
Atrazine herbicide	3 µg/L as an annual average ^a (MCL)	151	0.0007	2	0.0	0.0	31.8	0.0	0.0
Triazine herbicide screen, dissolved (µg/L as Atrazine)	3 µg/L as an annual average ^a (MCL)	340	0.05	1	0.1	0.1	4.7	0.0	0.0
Alachlor (µg/L)	2 µg/L (MCL) ^a	150	0.0025	0	0.0	0.0	0.0	0.0	0.0

^a U.S. Environmental Protection Agency (2006)

^b Value is estimated by using a log-probability regression to predict the values of data below the detection limit.

^c For fecal coliform bacteria, the primary contact recreation surface-water criterion of 200 cols/100mL was used from April 1 - October 31 (when most water-contact recreation occurs); from November 1 - March 31, the criterion of 2,358 cols/100mL was used.

^d Kansas Department of Health and Environment (2001)

^e For *Escherichia coli*, the primary contact recreation surface-water quality criterion of 262 cols/100mL was used from April 1 - October 31 for Class B (public access) stream segments; from November 1 - March 31, the criterion of 2,358 cols/100mL was used.

^f Kansas Department of Health and Environment (2004)