

Summary of selected water-quality data from ground-water samples collected from February 1995 through December 2012 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]

Phase II Sites

Sites: MW-1 Shallow, MW-1 Deep, MW-2 Shallow, MW-2 Deep, MW-3 Shallow, MW-3 Deep, MW-4 Shallow, MW-4 Deep, MW-5 Shallow, MW-5 Deep, MW-6 Shallow, MW-6 Deep, SMW-S11 (MW-7 Shallow), DMW-S10 (MW-7 Deep), SMW-S13 (MW-8 Shallow), DMW-S14 (MW-8 Deep), ADR-P2 Diversion

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	313	13.6	126	62.3	63.4	100	98.1	100
Sulfate, dissolved (mg/L)	250 mg/L (SDWR) ^a	312	19.3	462	93.7	57.8	100	7.69	24.2
Chloride, dissolved (mg/L)	250 mg/L (SDWR) ^a	312	4.53	156	43.5	38.9	99	0	0
Nitrite plus nitrate as nitrogen, dissolved (mg/L)	10 mg/L (MCL) ^a	313	0.01	24	3.73 ^b	1.66 ^b	90.1	14.4	11.6
Arsenic, dissolved (µg/L)	10 µg/L (MCL) ^a	225	0.71	59.1	4.02 ^b	2.66 ^b	75.6	6.7	15.8
Iron, dissolved (µg/L)	300 µg/L (SDWR) ^a	313	<5	23,110	605 ^b	0.769 ^b	26.2	10.5	33.3
Manganese, dissolved (µg/L)	50 µg/L (SDWR) ^a	313	<1	1,274	156 ^b	133 ^b	74.4	55.9	54.5
Total coliform bacteria (cols/100 mL)	0 cols/100 mL (MCLG) ^a	231	<1	196	2.16 ^b	0.088 ^b	19.9	19.9	16.7
Fecal coliform bacteria ^c (cols/100 mL)	200 cols/100mL (MCLG) ^d	248	<1	65	1.29	<1	5.65	0	0
	2,000 cols/100mL (MCLG) ^d	93	<1	<1	<1	<1	0	0	0
<i>Escherichia coli</i> ^e (cols/100 mL)	262 cols/100mL (MCLG) ^f	70	<1	2	<1	<1	1.43	0	0
	2,358 cols/100mL (MCLG) ^f	40	<1	<1	<1	<1	0	0	0
Atrazine herbicide	3 µg/L as an annual average ^a (MCL)	175	<0.001	0.43	0.05	0.0227	50.9	0	0
Triazine herbicide screen, dissolved (µg/L as Atrazine)	3 µg/L as an annual average ^a (MCL)	309	<0.1	0.57	0.07	<0.1	12.6	0	0
Alachlor (µg/L)	2 µg/L (MCL) ^a	175	<0.002	<0.05	<0.05	<0.008	2.9	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)