

Summary of selected water-quality data from ground-water samples collected from June 1997 through November 2010 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), 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	161	13.6	125.1	64.9	66.7	100	97.5	100
Sulfate, dissolved (mg/L)	250 mg/L (SDWR) ^a	160	19.3	462.3	94.7	56.1	100	9.38	16.7
Chloride, dissolved (mg/L)	250 mg/L (SDWR) ^a	161	4.53	156	48.5	56.0	98.8	0	0
Nitrite plus nitrate as nitrogen, dissolved (mg/L)	10 mg/L (MCL) ^a	161	0.01	15.27	3.06 ^b	0.190 ^b	82.0	14.9	17.4
Arsenic, dissolved (µg/L)	10 µg/L (MCL) ^a	114	0.758	29.4	3.72 ^b	2.52 ^b	76.3	6.14	10.0
Iron, dissolved (µg/L)	300 µg/L (SDWR) ^a	161	<5	23,110	673 ^b	7.18 ^b	39.8	13.0	27.8
Manganese, dissolved (µg/L)	50 µg/L (SDWR) ^a	161	<5	1,220	177 ^b	175 ^b	86.3	59.0	50.0
Total coliform bacteria (cols/100 mL)	0 cols/100 mL (MCLG) ^a	132	<1	196	2.53 ^b	0.037 ^b	17.4	17.4	33.3
Fecal coliform bacteria ^c (cols/100 mL)	200 cols/100mL (MCLG) ^d	126	<1	14	<1	<1	5.56	0	0
	2,000 cols/100mL (MCLG) ^d	61	<1	<1	<1	<1	0	0	0
<i>Escherichia coli</i> ^e (cols/100 mL)	262 cols/100mL (MCLG) ^f	29	<1	2	<1	<1	3.45	0	0
	2,358 cols/100mL (MCLG) ^f	26	<1	<1	<1	<1	0	0	0
Atrazine herbicide	3 µg/L as an annual average ^a (MCL)	83	<0.001	0.43	0.08	<0.05	54.2	0	0
Triazine herbicide screen, dissolved (µg/L as Atrazine)	3 µg/L as an annual average ^a (MCL)	157	<0.1	0.57	<0.1	<0.1	19.1	0	0
Alachlor (µg/L)	2 µg/L (MCL) ^a	83	<0.002	0.0341	0.013	<0.008	3.61	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)