

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]

Areal assessment index wells (shallow monitoring wells)

Wells: IW-01A through IW-38A

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	570	11.1	330	83.9	61.0	100	94.4	97.0
Sulfate, dissolved (mg/L)	250 mg/L (SDWR) ^a	562	<5	770	153	101	98.4	18.7	27
Chloride, dissolved (mg/L)	250 mg/L (SDWR) ^a	568	<5	773	69.4 ^b	36 ^b	94.7	5.63	18
Nitrite plus nitrate as nitrogen, dissolved (mg/L)	10 mg/L (MCL) ^a	568	0.01	24	3.86 ^b	0.68 ^b	71.8	15.7	24.3
Arsenic, dissolved (µg/L)	10 µg/L (MCL) ^a	563	<0.1	55	3.85 ^b	1.58 ^b	55.4	11.9	18
Iron, dissolved (µg/L)	300 µg/L (SDWR) ^a	570	0.3	40,700	2363 ^b	70.0 ^b	52.6	37.2	38
Manganese, dissolved (µg/L)	50 µg/L (SDWR) ^a	570	0.371	1,487	267 ^b	82.0 ^b	68.1	54.6	63
Total coliform bacteria (cols/100 mL)	0 cols/100 mL (MCLG) ^a	441	<1	368	6.40 ^b	0.116 ^b	24.7	24.7	25
Fecal coliform bacteria ^c (cols/100 mL)	200 cols/100mL (MCLG) ^d	475	<1	116	<1	<1	2.95	0	0
	2,000 cols/100mL (MCLG) ^d	90	<1	24	<1	<1	5.6	0	0
<i>Escherichia coli</i> ^e (cols/100 mL)	262 cols/100mL (MCLG) ^f	114	<1	37	<1	<1	2.63	0	0
	2,358 cols/100mL (MCLG) ^f	2	<1	<1	<1	<1	0	0	0
Atrazine herbicide	3 µg/L as an annual average ^a (MCL)	207	0.0029	1.37	0.06	0.0216	57.0	0	0
Triazine herbicide screen, dissolved (µg/L as Atrazine)	3 µg/L as an annual average ^a (MCL)	554	<0.1	<10	0.09	<0.1	13.7	0	0
Alachlor (µg/L)	2 µg/L (MCL) ^a	201	0.0043	<0.05	0.010	<0.008	3.0	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)