

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]

Local Well Field near Wichita, KS

374217097214801 MW-1, 374218097212501 MW-2, 374218097212001 MW-2 Test Well, 374346097214501 MW-4, 374353097225301 MW-3, 374432097222301 MW-5, 374448097215001 MW-6, 374448097215002 MW-6 Test Well, 374628097214601 MW-8, 374655097224701 MW-7

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	43	66.9	335.0	215.3	249.0	100.0	100.0	100.0
Sulfate, dissolved (mg/L)	250 mg/L (SDWR) ^a	43	20.0	383.0	158.3	162.0	100.0	4.7	0.0
Chloride, dissolved (mg/L)	250 mg/L (SDWR) ^a	43	87.6	531.0	310.8	332.0	100.0	65.1	60.0
Nitrite plus nitrate as nitrogen, dissolved (mg/L)	10 mg/L (MCL) ^a	43	0.0	3.0	0.606*	*0.070	79.1	0.0	0.0
Arsenic, dissolved (µg/L)	10 µg/L (MCL) ^a	12	0.0	0.5	0.5	0.5	0.0	0.0	0.0
Iron, dissolved (µg/L)	300 µg/L (SDWR) ^a	43	2.5	3600.0	376.128*	*34.987	48.8	20.9	40.0
Manganese, dissolved (µg/L)	50 µg/L (SDWR) ^a	43	2.5	1980.0	312.896*	*86.500	90.7	69.8	80.0
Total coliform bacteria (cols/100 mL)	0 cols/100 mL (MCLG) ^a	41	0.5	3.0	0.357*	*0.152	12.2	12.2	0.0
Fecal coliform bacteria ^c (cols/100 mL)	200 cols/100mL (MCLG) ^d	27	0.5	1.0	0.5	0.5	0.0	0.0	0.0
	2,000 cols/100mL (MCLG) ^d	14	0.5	0.5	0.5	0.5	0.0	0.0	0.0
<i>Escherichia coli</i> ^e (cols/100 mL)	262 cols/100mL (MCLG) ^f	NA	NA	NA	NA	NA	NA	NA	NA
	2,358 cols/100mL (MCLG) ^f	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine herbicide	3 µg/L as an annual average ^a (MCL)	19	0.0	1.5	0.2	0.1	100.0	0.0	0.0
Triazine herbicide screen, dissolved (µg/L as Atrazine)	3 µg/L as an annual average ^a (MCL)	43	0.1	1.9	0.2	0.1	55.8	0.0	0.0
Alachlor (µg/L)	2 µg/L (MCL) ^a	19	0.0	0.0	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)