

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]

Diverted Water at the Diversion Well, sites near Halstead, KS

TH-04-95 (380031097311001), and Diverted Water Halstead Recharge Site (380051097335501)

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	150	51.2	74.5	63.3	63.8	100.0	100.0	100.0
Sulfate, dissolved (mg/L)	250 mg/L (SDWR) ^a	148	5.0	111.0	58.1	65.2	98.6	0.0	0.0
Chloride, dissolved (mg/L)	250 mg/L (SDWR) ^a	313	22.0	77.8	56.5	59.6	100.0	0.0	0.0
Nitrite plus nitrate as nitrogen, dissolved (mg/L)	10 mg/L (MCL) ^a	111	0.0	0.8	0.018*	*0.007	8.1	0.0	0.0
Arsenic, dissolved (µg/L)	10 µg/L (MCL) ^a	35	15.7	24.4	20.1	20.0	100.0	100.0	100.0
Iron, dissolved (µg/L)	300 µg/L (SDWR) ^a	150	30.7	1150.0	414.5	433.0	100.0	77.3	50.0
Manganese, dissolved (µg/L)	50 µg/L (SDWR) ^a	150	448.0	831.0	684.7	728.5	100.0	100.0	100.0
Total coliform bacteria (cols/100 mL)	0 cols/100 mL (MCLG) ^a	111	0.5	21.0	0.628*	*0.114	13.5	13.5	12.5
Fecal coliform bacteria ^c (cols/100 mL)	200 cols/100mL (MCLG) ^d	65	0.5	50.0	2.0	0.5	4.6	0.0	0.0
	2,000 cols/100mL (MCLG) ^d	46	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)	100	0.0	0.1	0.1	0.1	83.0	0.0	0.0
Triazine herbicide screen, dissolved (µg/L as Atrazine)	3 µg/L as an annual average ^a (MCL)	282	0.1	0.2	0.1	0.1	16.7	0.0	0.0
Alachlor (µg/L)	2 µg/L (MCL) ^a	100	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)