

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 (Deep Monitoring Wells)

Wells: IW-01C through IW-38C

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) <sup>a</sup>	574	16.89	409	93.34	82.8	100	95.8	97.4
Sulfate, dissolved (mg/L)	250 mg/L (SDWR) <sup>a</sup>	565	<5	717.9	108	68	98.1	12.9	11.5
Chloride, dissolved (mg/L)	250 mg/L (SDWR) <sup>a</sup>	568	<5	1,458	116 <sup>b</sup>	65.0 <sup>b</sup>	94.2	7.39	30.8
Nitrite plus nitrate as nitrogen, dissolved (mg/L)	10 mg/L (MCL) <sup>a</sup>	574	0.01	11.31	0.454 <sup>b</sup>	0.030 <sup>b</sup>	50.9	0.174	2.44
Arsenic, dissolved (µg/L)	10 µg/L (MCL) <sup>a</sup>	563	<0.3	23.9	7.42 <sup>b</sup>	5.87 <sup>b</sup>	84.4	34.6	25.0
Iron, dissolved (µg/L)	300 µg/L (SDWR) <sup>a</sup>	574	4.079	17,900	1,429 <sup>b</sup>	117 <sup>b</sup>	63.4	44.6	42.3
Manganese, dissolved (µg/L)	50 µg/L (SDWR) <sup>a</sup>	574	0.114	1,480	433	307	98.4	91.8	75.6
Total coliform bacteria (cols/100 mL)	0 cols/100 mL (MCLG) <sup>a</sup>	443	<1	84	1.16 <sup>b</sup>	0.031 <sup>b</sup>	12.4	12.4	0
Fecal coliform bacteria <sup>c</sup> (cols/100 mL)	200 cols/100mL (MCLG) <sup>d</sup>	479	<1	39	<1	<1	1.25	0	0
	2,000 cols/100mL (MCLG) <sup>d</sup>	89	<1	21	<1	<1	4.5	0	0
<i>Escherichia coli</i> <sup>e</sup> (cols/100 mL)	262 cols/100mL (MCLG) <sup>f</sup>	113	<1	<1	<1	<1	0	0	0
	2,358 cols/100mL (MCLG) <sup>f</sup>	2	<1	<1	<1	<1	0	0	0
Atrazine herbicide	3 µg/L as an annual average <sup>a</sup> (MCL)	127	0.0035	0.09	0.01	0.004	26.0	0	0
Triazine herbicide screen, dissolved (µg/L as Atrazine)	3 µg/L as an annual average <sup>a</sup> (MCL)	559	<0.1	0.53	<0.1	<0.1	2.0	0	0
Alachlor (µg/L)	2 µg/L (MCL) <sup>a</sup>	116	<0.0045	<0.05	<0.008	<0.0045	1.7	0	0

<sup>a</sup> U.S. Environmental Protection Agency (2006)

<sup>b</sup> Value is estimated by using a log-probability regression to predict the values of data below the detection limit

<sup>c</sup> 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.

<sup>d</sup> Kansas Department of Health and Environment (2001)

<sup>e</sup> 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.

<sup>f</sup> Kansas Department of Health and Environment (2004)