

06922850 BIG BUFFALO CREEK AT BIG BUFFALO WILDLIFE AREA
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 38°20'06", long 93°05'05", SE 1/4 NW 1/4 sec. 12, T.41 N., R.19 W., Morgan County, Hydrologic Unit 10290109. Sampling site is reached by taking Highway FF to the end, turn right onto dirt road and travel about 2 mi.

DRAINAGE AREA.--24.5 mi².

PERIOD OF RECORD.--November 1993 to current year.

REMARKS.--Ambient water-quality monitoring network station since November 1993.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPERATURE WATER (DEG C) (00010)	SPECIFIC CONDUCTANCE (µS/CM) (00095)	PH WATER FIELD (STANDARD UNITS) (00400)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DEMAND, CHEMICAL (PERCENT (HIGH LEVEL)) (MG/L) (00301)	OXYGEN, DEMAND, CHEMICAL (PERCENT (HIGH LEVEL)) (MG/L) (00340)	COLIFORMS, 0.7 µM-MF (COLS./100 ML) (31625)	STREPTOCOCCI, KF AGAR PER (100 ML) (31673)	ALKALINITY WAT WH TOT FET FIELD (MG/L AS CaCO ₃) (00410)
NOV 16...	0900	23	9.5	333	8.25	9.6	83	--	K1	45	164
JAN 25...	1100	13	1.5	334	7.48	14.0	97	<10	K5	500	184
MAR 28...	0800	10	10.0	373	7.94	10.4	90	--	K1	K1	207
APR 25...	1300	48	13.5	244	7.74	10.4	99	--	K18	23	124
JUN 23...	1030	20	22.0	354	7.63	8.5	96	<10	M	170	199
JUL 19...	0820	4	22.5	422	7.77	6.5	76	--	K4	42	210
AUG 30...	1005	3	26.0	456	7.68	6.3	79	--	31	35	234

DATE	BICARBONATE WATER FIELD (MG/L AS HCO ₃) (00450)	CARBONATE WATER FIELD (MG/L AS CO ₃) (00447)	NITROGEN, NO ₂ +NO ₃ TOTAL (MG/L AS N) (00630)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	HARDNESS TOTAL (MG/L AS CaCO ₃) (00900)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)
NOV 16...	200	0	0.080	<0.010	<0.030	<0.20	0.090	0.090	--	--
JAN 25...	225	0	0.070	<0.010	0.010	<0.20	<0.020	<0.010	170	34
MAR 28...	245	0	0.070	<0.010	0.020	0.25	<0.020	<0.010	--	--
APR 25...	154	0	0.020	<0.010	0.030	<0.20	<0.020	0.010	--	--
JUN 23...	244	0	0.090	<0.010	0.030	<0.20	<0.020	<0.010	200	41
JUL 19...	258	0	0.100	0.010	0.020	<0.20	<0.020	<0.010	--	--
AUG 30...	290	0	0.090	0.010	0.010	0.20	0.020	0.010	--	--

DATE	MAGNESIUM DIS-SOLVED (MG/L AS Mg) (00925)	SODIUM DIS-SOLVED (MG/L AS Na) (00930)	POTASSIUM DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO ₄) (00945)	CHLORIDE DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE DIS-SOLVED (MG/L AS F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	ALUMINUM TOTAL RECOVERABLE (µG/L AS AL) (01105)	ALUMINUM DIS-SOLVED (µG/L AS AL) (01106)
JAN 25...	20	2.0	0.80	8.1	2.2	<0.10	174	2	30	<20
JUN 23...	24	2.3	1.30	6.3	1.9	<0.10	190	4	60	30

DATE	CADMIUM TOTAL RECOVERABLE (µG/L AS Cd) (01027)	CADMIUM DIS-SOLVED (µG/L AS Cd) (01025)	COPPER DIS-SOLVED (µG/L AS Cu) (01040)	IRON DIS-SOLVED (µG/L AS Fe) (01046)	LEAD, TOTAL RECOVERABLE (µG/L AS Pb) (01051)	LEAD DIS-SOLVED (µG/L AS Pb) (01049)	MANGANESE DIS-SOLVED (µG/L AS Mn) (01056)	MERCURY TOTAL RECOVERABLE (µG/L AS Hg) (71900)	ZINC, TOTAL RECOVERABLE (µG/L AS Zn) (01092)	ZINC, DIS-SOLVED (µG/L AS Zn) (01090)
JAN 25...	<1	<1.0	<1	3	<1	<1	2	0.20	<4	<4
JUN 23...	1	1.0	<1	3	1	1	5	0.20	8	5

K--Results based on colony count outside the acceptable range (non-ideal colony count).

M--Result compromised due to contaminated bacteria media.