07014200 COURTOIS CREEK AT BERRYMAN, MO

Lower Mississippi Basin
Meramec Subbasin

LOCATION.--Lat 37°55′05″, long 91°06′04″ referenced to North American Datum of 1927, in NE ¼ SW ¼ SW ¼ sec.13, T.37 N., R.2 W., Crawford County, MO, Hydrologic Unit 07140102, at bridge on State Highway 8, approximately 13 mi east of Steelville.

DRAINAGE AREA.--173 mi².

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 1 of 6

[%, percent; ANC, acid neutralizing capacity; CaCO3, calcium carbonate; MF, membrane filter; N, nitrogen; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft³/s, cubic feet per second; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated; M, presence verified but not quantified]

Date	Sample start time	Medium name	Sample type	Temperature, air, °C (00020)	Discharge, instantaneous, ft³/s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, µS/cm at 25 °C (00095)	Temperature, water, °C (00010)
10-27-2009	1220	Surface water	Regular	13.0	228	9.8	96	7.4	254	12.9
01-20-2010	1020	Surface water	Regular	11.6	109	12.2	105	7.5	344	7.2
03-24-2010	0915	Surface water	Regular	10.0	78	10.9	97	8.5	275	8.9
05-24-2010	1110	Surface water	Regular	25.5	181	8.8	97	7.6	338	18.8
07-14-2010	1055	Surface water	Regular	27.0	58	8.0	101	8.1	396	24.9
09-07-2010	1215	Surface water	Regular	24.6	36	7.7	93	7.3	416	23.3

07014200 COURTOIS CREEK AT BERRYMAN, MO—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
Part 2 of 6
[%, percent; ANC, acid neutralizing capacity; CaCO3, calcium carbonate; MF, membrane filter; N, nitrogen; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft³/s, cubic feet per second; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated; M, presence verified but not quantified]

Date	Dissolved solids dried at 180 °C, water, filtered, mg/L (70300)	Hardness, water, mg/L as CaCO3 (00900)	Suspended solids, water, unfiltered, mg/L (00530)	Calcium, water, filtered, mg/L (00915)	Magne-sium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)	Sodium, water, filtered, mg/L (00930)	ANC, water, unfiltered, inflection-point, incremental titration method, field, mg/L as CaCO3 (00419)	Bi-carbonate, water, unfiltered, inflection-point, incremental titration method, field, mg/L (00450)
10-27-2009	148	141	< 15	29.2	16.6	1.02	1.71	122	148
01-20-2010	--	--	< 15	--	--	--	--	--	--
03-24-2010	--	--	< 15	--	--	--	--	--	--
05-24-2010	180	182	< 15	38.2	21.0	.88	1.70	160	194
07-14-2010	--	--	< 15	--	--	--	--	--	--
09-07-2010	--	--	< 15	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
Part 3 of 6
[%, percent; ANC, acid neutralizing capacity; CaCO3, calcium carbonate; MF, membrane filter; N, nitrogen; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft³/s, cubic feet per second; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated; M, presence verified but not quantified]

Date	Carbonate, water, unfiltered, inflection-point, incre-mental titration method, field, mg/L (00447)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Sulfate, water, filtered, mg/L (00945)	Ammonia plus organic nitrogen, water, unfiltered, mg/L as N (00625)	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Nitrite, water, filtered, mg/L as N (00613)	Orthophos-phate, water, filtered, mg/L as P (00671)
10-27-2009	.2	1.78	< .08	9.98	.12	< .020	.19	< .002	E .006
01-20-2010	--	--	--	--	E .06	< .020	.06	< .002	< .008
03-24-2010	--	--	--	--	E .09	< .020	.07	< .002	E .006
05-24-2010	.5	1.93	E .08	12.9	E .08	< .020	.10	< .002	< .008
07-14-2010	--	--	--	--	E .06	E .013	.13	E .002	.009
09-07-2010	--	--	--	--	E .06	< .020	.10	E .001	.026

07014200 COURTOIS CREEK AT BERRYMAN, MO—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 4 of 6

[%, percent; ANC, acid neutralizing capacity; CaCO3, calcium carbonate; MF, membrane filter; N, nitrogen; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft³/s, cubic feet per second; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated; M, presence verified but not quantified

Microbiology results with a remark code of E are based on non-ideal colony counts.]

Date	Phosphorus, water, filtered, mg/L as P (00666)	Phosphorus, water, unfiltered, mg/L as P (00665)	Escherichia coli, modified m-TEC MF method, water, col/100 mL (90902)	Fecal coliform, M-FC MF (0.7 micron) method, water, col/100 mL (31625)	Aluminum, water, filtered, µg/L (01106)	Aluminum, water, unfiltered, recoverable, µg/L (01105)	Cadmium, water, filtered, µg/L (01025)	Cadmium, water, unfiltered, µg/L (01027)	Copper, water, filtered, µg/L (01040)	Iron, water, filtered, µg/L (01046)
10-27-2009	< .04	< .04	E 8	E 120	5.3	40	E .01	< .04	< 1.0	10
01-20-2010	< .04	E .04	30	23	--	--	--	--	--	--
03-24-2010	< .04	< .04	E 12	24	--	--	--	--	--	--
05-24-2010	< .04	E .03	47	42	E 1.8	24	.02	< .04	< 1.0	E 3
07-14-2010	< .04	< .04	E 19	E 21	--	--	--	--	--	--
09-07-2010	< .04	< .04	E 8	20	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 5 of 6

[%, percent; ANC, acid neutralizing capacity; CaCO3, calcium carbonate; MF, membrane filter; N, nitrogen; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft³/s, cubic feet per second; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated; M, presence verified but not quantified]

Date	Lead, water, filtered, µg/L (01049)	Lead, water, unfiltered, recoverable, µg/L (01051)	Lithium, water, filtered, µg/L (01130)	Manganese, water, filtered, µg/L (01056)	Mercury, water, unfiltered, recoverable, µg/L (71900)	Strontium, water, filtered, µg/L (01080)	Zinc, water, filtered, µg/L (01090)	Zinc, water, unfiltered, recoverable, µg/L (01092)	Arsenic, water, filtered, µg/L (01000)	Boron, water, filtered, µg/L (01020)
10-27-2009	.05	.29	M	5.7	< .010	30.8	2.9	3.3	.21	9.2
01-20-2010	--	--	--	--	--	--	--	--	--	--
03-24-2010	--	--	--	--	--	--	--	--	--	--
05-24-2010	.04	.26	M	5.4	< .010	32.0	3.6	4.0	.24	9.6
07-14-2010	--	--	--	--	--	--	--	--	--	--
09-07-2010	--	--	--	--	--	--	--	--	--	--

07014200 COURTOIS CREEK AT BERRYMAN, MO—Continued

WATER-QUALITY DATA WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 6 of 6

[%, percent; ANC, acid neutralizing capacity; CaCO3, calcium carbonate; MF, membrane filter; N, nitrogen; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft^3/s, cubic feet per second; mg/L, milligrams per liter; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated; M, presence verified but not quantified]

Date	Selenium, water, filtered, µg/L (01145)
10-27-2009	.09
01-20-2010	--
03-24-2010	--
05-24-2010	.09
07-14-2010	--
09-07-2010	--