07014200 COURTOIS CREEK AT BERRYMAN, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 37°55'05", long 91°06'04", in SW 1/4 NE 1/4 sec.13, T.37 N., R.1 W., Crawford County, Hydrologic Unit 07140102. Take Highway 8 until you cross Courtois Creek, about 13 mi east of Steelville.

DRAINAGE AREA.--173 $mi^2$.

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

| DATE | TIME | DIS-CHARGE, INST. (CUBIC FEET PER SECOND) (00061) | TEMPER-ATURE WATER (DEG C) (00010) | SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | OXYGEN, DIS-SOLVED (mg/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301) | OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (mg/L) (00340) | COLI-FORM, FECAL, 0.7 µm-MF (COLS./ 100 mL) (31625) | STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 mL) (31673) | ALKA-LINITY WAT WH TOT FET FIELD (mg/L as $CaCO_3$) (00410) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NOV | | | | | | | | | | | |
| 21... | 1500 | 49 | 10.0 | 381 | 8.0 | 11.7 | 105 | -- | K8 | K7 | 195 |
| JAN | | | | | | | | | | | |
| 17... | 1300 | 62 | 9.5 | 347 | 7.9 | 12.5 | 108 | <10 | K13 | K6 | 57 |
| MAR | | | | | | | | | | | |
| 05... | 0900 | 69 | 8.5 | 380 | 8.1 | 11.9 | 101 | -- | K18 | 26 | 187 |
| APR | | | | | | | | | | | |
| 09... | 1200 | 140 | 10.0 | 294 | 7.8 | 12.1 | 106 | -- | K10 | K2 | 138 |
| JUN | | | | | | | | | | | |
| 24... | 1240 | 47 | 25.0 | 324 | 7.4 | 8.0 | 98 | <10 | 42 | 71 | 162 |
| AUG | | | | | | | | | | | |
| 19... | 1205 | 48 | 23.5 | 377 | 7.9 | 8.2 | 95 | -- | 190 | 210 | 179 |

| DATE | BICAR-BONATE WATER WH IT FIELD (mg/L as $HCO_3$) (00450) | CAR-BONATE WATER WH IT FIELD (mg/L as $CO_3$) (00447) | NITRO-GEN, $NO_2+NO_3$ TOTAL (mg/L as N) (00630) | NITRO-GEN, NITRITE TOTAL (mg/L as N) (00615) | NITRO-GEN, AMMONIA TOTAL (mg/L as N) (00610) | NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625) | PHOS-PHORUS TOTAL (mg/L as P) (00665) | PHOS-PHORUS ORTHO TOTAL (mg/L as P) (70507) | HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900) | CALCIUM DIS-SOLVED (mg/L as Ca) (00915) |
|---|---|---|---|---|---|---|---|---|---|---|
| NOV | | | | | | | | | | |
| 21... | 238 | 0 | 0.050 | <0.010 | 0.010 | <0.20 | <0.020 | <0.010 | -- | -- |
| JAN | | | | | | | | | | |
| 17... | 70 | 0 | -- | -- | -- | <0.20 | <0.020 | -- | 160 | 32 |
| MAR | | | | | | | | | | |
| 05... | 225 | 0 | 0.110 | <0.010 | 0.030 | <0.20 | <0.020 | <0.010 | -- | -- |
| APR | | | | | | | | | | |
| 09... | 169 | 0 | 0.160 | <0.010 | 0.010 | <0.20 | 0.020 | <0.010 | -- | -- |
| JUN | | | | | | | | | | |
| 24... | 204 | 0 | 0.280 | <0.010 | 0.010 | 0.24 | 0.020 | <0.010 | 170 | 37 |
| AUG | | | | | | | | | | |
| 19... | 220 | 0 | 0.110 | <0.010 | 0.020 | <0.20 | <0.020 | <0.010 | -- | -- |

| DATE | MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925) | SODIUM, DIS-SOLVED (mg/L as Na) (00930) | POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935) | SULFATE DIS-SOLVED (mg/L as $SO_4$) (00945) | CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940) | FLUO-RIDE, DIS-SOLVED (mg/L as F) (00950) | SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300) | RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530) | ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105) | ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106) |
|---|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | | |
| 17... | 20 | 2.4 | 0.80 | 16 | 3.2 | <0.10 | 202 | 1 | <20 | <20 |
| JUN | | | | | | | | | | |
| 24... | 20 | 2.7 | 1.0 | 9.4 | 2.9 | <0.10 | 226 | <1 | 20 | 4.0 |

| DATE | CADMIUM TOTAL RECOV-ERABLE (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 RECOV-ERABLE (µg/L as Pb) (01051) | LEAD, DIS-SOLVED (µg/L as Pb) (01049) | MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056) | MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900) | ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092) | ZINC, DIS-SOLVED (µg/L as Zn) (01090) |
|---|---|---|---|---|---|---|---|---|---|---|
| JAN | | | | | | | | | | |
| 17... | <1 | <1.0 | <1.0 | <3.0 | <1 | <1.0 | 8.2 | <0.10 | <4 | <4.0 |
| JUN | | | | | | | | | | |
| 24... | <1 | <1.0 | <1.0 | 9.0 | <1 | <1.0 | 12 | <0.10 | 4 | 1.2 |

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