

07010500 MARAMEC SPRING NEAR ST. JAMES, MO
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 37°57'20", long 91°31'57", NW 1/4 SE 1/4 sec.1, T.37 N., R.6 W., Phelps County, Hydrologic Unit 07140102. Site is at Maramec Spring Park, about 5 mi east of St. James on Highway 8.

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 DEMAND, CHEM-ICAL (PER-CENT (HIGH LEVEL) (mg/L) (00340)	COLI-FORM, FECAL, 0.7 µm-MF (COLS./100 mL) (31625)	STREP-TOCOCCI, KF AGAR (COLS. PER 100 mL) (31673)	ALKA-LINITY WAT WH TOT FET (mg/L as CaCO ₃) (00410)	
NOV 21...	0930	125	13.5	352	7.4	8.1	79	--	K16	20	158
JAN 18...	1052	167	13.0	347	7.3	9.3	88	<10	K10	28	162
MAR 05...	1445	55	13.5	306	7.6	9.0	86	--	K7	K8	151
APR 10...	1230	163	13.0	235	7.6	8.9	83	--	41	42	106
JUN 25...	1130	170	14.0	248	7.1	9.6	94	<10	30	34	113
AUG 20...	1040	123	14.0	316	7.6	8.5	82	--	K8	31	150

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 (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...	194	0	0.790	<0.010	0.020	<0.20	<0.020	0.020	--	--
JAN 18...	197	0	0.840	<0.010	0.050	<0.20	<0.020	0.020	140	29
MAR 05...	185	0	0.770	<0.010	0.060	<0.20	0.180	0.210	--	--
APR 10...	129	0	0.770	<0.010	0.030	<0.20	0.040	0.030	--	--
JUN 25...	142	0	0.800	<0.010	0.010	<0.20	0.030	0.010	120	26
AUG 20...	184	0	0.720	<0.010	<0.010	<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 (mg/L) (70300)	RESIDUE AT 105 DEG. C, DIS-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 18...	17	5.1	1.2	5.8	9.6	<0.10	188	<1	30	<20
JUN 25...	14	2.5	1.4	5.5	4.2	<0.10	162	<1	60	15

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 18...	<1	<1.0	<1.0	4.0	<1	<1.0	<1.0	<0.10	5	<4.0
JUN 25...	<1	<1.0	<1.0	10	<1	<1.0	0.60	<0.10	1	<1.0

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