

07069200 MAMMOTH SPRING AT MAMMOTH SPRING, AR
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION: Lat 36°29'43", long 91°32'05", in NE 1/4 NW 1/4 sec.8, T.21 N., R.5 W., Clinton County, Hydrologic Unit 11010010. Spring is located in park.

PERIOD OF RECORD: November 1993 to present.

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 (DEG C) (00010) | SPECIFIC CONDUCTANCE (µS/CM) (00095) | PH WATER WHOLE FIELD (STANDARD UNITS) (00400) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN DEMAND, CHEMICAL (PERCENT (HIGH LEVEL) (MG/L) ATION) (00301) | OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) (00340) | COLIFORMS, FECALE, 0.7 µM-MF (COLS./100 ML) (31625) | STREPTOCOCCI, FECALE, KF AGAR PER (100 ML) (31673) | ALKALINITY WAT WH TOT FET (MG/L AS CaCO ₃) (00410) |
|-----------|------|-------------------------------------------------|-----------------------------|--------------------------------------|-----------------------------------------------|-----------------------------------|---------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|----------------------------------------------------|----------------------------------------------------------------|
| NOV 08... | 1600 | 481 | 15.0 | 383 | 7.27 | 7.4 | 72 | -- | K2 | 1000 | 200 |
| JAN 25... | 1000 | 435 | 14.0 | 351 | 7.41 | 7.5 | 73 | <10 | 150 | 170 | 169 |
| MAR 15... | 1630 | 485 | 16.5 | 366 | 7.37 | 8.0 | 80 | -- | K350 | 450 | 221 |
| APR 19... | 1545 | 439 | 14.5 | 392 | 7.22 | 7.4 | 71 | -- | K560 | 220 | 203 |
| JUN 20... | 1600 | 412 | 15.5 | 378 | 7.42 | 6.5 | 64 | <10 | M | 500 | 192 |
| JUL 12... | 1545 | 357 | 15.0 | 399 | 7.36 | 6.3 | 63 | -- | 170 | 170 | 207 |
| AUG 08... | 1515 | 318 | 15.5 | 436 | 7.49 | 7.4 | 75 | -- | 300 | 330 | 221 |

| DATE | BICARBONATE WATER WH IT FIELD (MG/L AS HCO ₃) (00450) | CARBONATE WATER WH IT FIELD (MG/L AS CO ₃) (00447) | NITROGEN, NO ₂ +NO ₃ (MG/L AS N) (00630) | NITROGEN, NITRITE (MG/L AS N) (00615) | NITROGEN, AMMONIA (MG/L AS N) (00610) | NITROGEN, AMMONIA + ORGANIC (MG/L AS N) (00625) | PHOSPHORUS, PHOSPHORUS (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 08... | 244 | 0 | 0.830 | <0.010 | <0.010 | <0.20 | 0.070 | 0.050 | -- | -- |
| JAN 25... | 204 | 0 | 1.30 | <0.010 | <0.010 | <0.20 | 0.050 | 0.030 | 190 | 38 |
| MAR 15... | 274 | 0 | 1.20 | <0.010 | 0.010 | <0.20 | 0.030 | 0.040 | -- | -- |
| APR 19... | 246 | 0 | 1.10 | <0.010 | 0.020 | <0.20 | <0.020 | 0.020 | -- | -- |
| JUN 20... | 233 | 0 | 1.00 | <0.010 | 0.010 | <0.20 | 0.030 | 0.020 | 220 | 45 |
| JUL 12... | 255 | 0 | 0.920 | <0.010 | 0.010 | <0.20 | <0.020 | 0.020 | -- | -- |
| AUG 08... | 269 | 0 | 0.930 | <0.010 | 0.010 | 0.20 | 0.020 | 0.020 | -- | -- |

| 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 (MG/L) (70300) | RESIDUE, TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530) | ALUMINUM, TOTAL RECOVERABLE (µG/L AS AL) (01105) | ALUMINUM, DIS-SOLVED (µG/L AS AL) (01106) |
|-----------|--------------------------------------------|-----------------------------------------|-------------------------------------------|--------------------------------------------------------|-------------------------------------------|------------------------------------------|----------------------------------------------|--------------------------------------------------------|--------------------------------------------------|-------------------------------------------|
| JAN 25... | 22 | 2.0 | 1.7 | 3.6 | 5.0 | <0.10 | 188 | 4 | 120 | 30 |
| JUN 20... | 26 | 2.0 | 0.70 | 3.3 | 4.0 | <0.10 | 206 | 18 | 120 | 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 | 21 | 3 | <1 | <1 | 0.10 | 7 | <4 |
| JUN 20... | <1 | <1.0 | <1 | 26 | 3 | 1 | 3 | 0.20 | 6 | 6 |

K--Results based on colony count outside the acceptable range (non-ideal colony count).
M--Result compromised due to contaminated bacteria media.