

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D
September 2023

| CONSTITUENTS | UNITS | SOURCE WATERS | | | | | | | | TREATMENT PLANT EFFLUENTS | | | | |
|---|-------|---------------|--------------------|--------------|--------------|-------------------|-------------|---------------------|--------------|---------------------------|--------|--------|---------|-------|
| | | LAKE HAVASU | SAN JACINTO TUNNEL | LAKE MATHEWS | CASTAIC LAKE | SILVER- WOOD LAKE | LAKE PERRIS | DIAMOND VALLEY LAKE | LAKE SKINNER | WEY- MOUTH | DIEMER | JENSEN | SKINNER | MILLS |
| SILICA | mg/L | 8.1 | 7.4 | 8.5 | 16.4 | 9.9 | 1.7 | 7.7 | 8.3 | 9.2 | 8.3 | 16.3 | 8.6 | 7.5 |
| CALCIUM | mg/L | 78 | 76 | 71 | 41 | 14 | 28 | 22 | 39 | 28 | 53 | 41 | 38 | 19 |
| MAGNESIUM | mg/L | 27 | 27 | 27 | 12 | 7 | 14 | 11 | 15 | 12 | 21 | 12 | 15 | 9 |
| SODIUM | mg/L | 108 | 110 | 103 | 53 | 23 | 64 | 45 | 60 | 53 | 90 | 61 | 66 | 45 |
| POTASSIUM | mg/L | 5.2 | 5.2 | 4.9 | 2.6 | 2.1 | 3.8 | 3.2 | 3.5 | 2.9 | 4.1 | 2.5 | 3.5 | 2.6 |
| ALKALINITY, CARBONATE AS CO ₃ | mg/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 2 | 1 | 5 |
| ALKALINITY, BICARBONATE AS HCO ₃ | mg/L | 167 | 162 | 162 | 112 | 65 | 132 | 95 | 111 | 87 | 118 | 120 | 101 | 72 |
| SULFATE | mg/L | 232 | 240 | 223 | 105 | 17 | 45 | 41 | 103 | 91 | 192 | 109 | 120 | 39 |
| CHLORIDE | mg/L | 104 | 110 | 104 | 53 | 29 | 81 | 58 | 64 | 59 | 96 | 57 | 76 | 57 |
| NITRATE | mg/L | 1.4 | 1.3 | 1.2 | 4.4 | 1.3 | <0.1 | 1.0 | 0.5 | 1.0 | 0.8 | 4.4 | 0.4 | 1.0 |
| FLUORIDE | mg/L | 0.3 | 0.3 | 0.3 | 0.3 | <0.1 | 0.1 | 0.1 | 0.2 | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 |
| TOTAL DISSOLVED SOLIDS (TDS) | mg/L | 647 | 658 | 624 | 344 | 136 | 304 | 236 | 349 | 302 | 529 | 366 | 380 | 222 |
| TOTAL HARDNESS AS CaCO ₃ | mg/L | 312 | 305 | 291 | 149 | 60 | 127 | 92 | 159 | 123 | 220 | 151 | 155 | 82 |
| TOTAL ALKALINITY AS CaCO ₃ | mg/L | 137 | 133 | 133 | 92 | 53 | 108 | 78 | 91 | 75 | 103 | 102 | 85 | 67 |
| FREE CARBON DIOXIDE | mg/L | 3.9 | 1.5 | 3.1 | 6.2 | 1.5 | 1.3 | 4.3 | 1.1 | 0.4 | 0.6 | 0.5 | 0.7 | 0.3 |
| pH | pH | 7.85 | 8.26 | 7.94 | 7.48 | 7.87 | 8.22 | 7.57 | 8.22 | 8.61 | 8.54 | 8.61 | 8.41 | 8.73 |
| SPECIFIC CONDUCTANCE | µS/cm | 1060 | 1060 | 998 | 545 | 237 | 562 | 423 | 590 | 505 | 829 | 577 | 624 | 384 |
| COLOR | CU | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TURBIDITY | NTU | 1.0 | 0.64 | 1.2 | 0.86 | 1.9 | 0.89 | 0.30 | 0.95 | 0.05 | 0.03 | 0.04 | 0.05 | 0.05 |
| TEMPERATURE | °C | 26 | 27 | 20 | 13 | 24 | 25 | 18 | 27 | 24 | 25 | 19 | 28 | 27 |
| BROMIDE | mg/L | 0.09 | 0.10 | 0.08 | 0.18 | 0.09 | 0.26 | 0.18 | 0.11 | -- | -- | -- | -- | -- |
| TOTAL ORGANIC CARBON | mg/L | 3.16 | 3.29 | 3.06 | 3.25 | 3.58 | 4.99 | 3.05 | 3.82 | -- | -- | -- | -- | -- |
| SATURATION INDEX | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.51 | 0.88 | 0.79 | 0.60 | 0.55 |
| STATE PROJECT WATER | % | 0 | 0 | 0 | 100 | 100 | 100 | 100 | 59 | 76 | 36 | 100 | 62 | 100 |