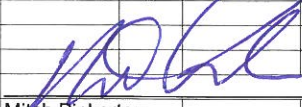


| SUBSTANCES FREQUENTLY MONITORED BY | | | | | | |
|---|----------------|-----------------------|---|-------|------|------------|
| WEST DES MOINES WATER WORKS | | | | | | |
| RAW WATER (BEFORE TREATMENT) | | | | | | |
| June 2018 | | | | | | |
| Substance | Test Frequency | Concentration Average | | High | Low | |
| Calcium Hardness | 1/week | 256 | mg/l | 272 | mg/l | 240 mg/l |
| Copper | 1/week | 0.05 | mg/l | 0.06 | mg/l | 0.04 mg/l |
| Fluoride | 1/week | 2.1 | mg/l | 2.2 | mg/l | 1.8 mg/l |
| Iron | 1/week | 0.23 | mg/l | 0.36 | mg/l | 0.17 mg/l |
| Magnesium Hardness | 1/week | 103 | mg/l | 120 | mg/l | 76 mg/l |
| Manganese | 1/week | 0.13 | mg/l | 0.67 | mg/l | 0.10 mg/l |
| Nitrate as Nitrogen | 1/week | 0.16 | mg/l | 0.21 | mg/l | 0.13 mg/l |
| Orthophosphate | 1/week | 0.12 | mg/l | 0.16 | mg/l | 0.09 mg/l |
| Phenolphthalein | | | | | | |
| Alkalinity as CaCO ₃ | 1/week | 0 | | 0 | | 0 |
| pH (pH units) | 1/week | 7.3 | | 7.4 | | 7.2 |
| Sulfate | 1/week | 371 | mg/l | 420 | mg/l | 280 mg/l |
| Temperature | 1/week | 23 | ° C | 23 | ° C | 22 ° C |
| Total Alkalinity/CaCO ₃ | 1/week | 266 | | 272 | | 256 |
| Total Dissolved Solids | 1/week | 746 | mg/l | 772 | mg/l | 715 mg/l |
| Total Hardness | 1/week | 359 | mg/l | 388 | mg/l | 324 mg/l |
| FINISHED WATER (AFTER TREATMENT) | | | | | | |
| (INCLUDES PURCHASED WATER) | | | | | | |
| Substance | Test Frequency | Concentration Average | | High | Low | |
| Calcium Hardness | 6/day | 95 | mg/l | 108 | mg/l | 82 mg/l |
| Copper | 1/week | 0.02 | mg/l | 0.02 | mg/l | 0.01 mg/l |
| Fluoride | 1/day | 1.3 | mg/l | 1.5 | mg/l | 1.1 mg/l |
| Free Chlorine * | 6/day | 1.1 | mg/l | 1.5 | mg/l | 0.4 mg/l |
| Iron | 1/week | 0.03 | mg/l | 0.06 | mg/l | 0.01 mg/l |
| Magnesium Hardness | 1/week | 61 | mg/l | 71 | mg/l | 47 mg/l |
| Manganese | 1/week | 0.008 | mg/l | 0.017 | mg/l | 0.002 mg/l |
| Nitrate as Nitrogen | 1/week | 0.64 | mg/l | 0.87 | mg/l | 0.44 mg/l |
| Orthophosphate | 1/week | 0.19 | mg/l | 0.22 | mg/l | 0.14 mg/l |
| Phenolphthalein | | | | | | |
| Alkalinity as CaCO ₃ | 6/day | 15 | | 20 | | 10 |
| pH (pH units) | 6/day | 9.3 | | 9.5 | | 9.2 |
| Polyphosphate | 1/week | 0.19 | mg/l | 0.28 | mg/l | 0.14 mg/l |
| Sulfate | 1/week | 366 | mg/l | 385 | mg/l | 350 mg/l |
| Temperature | 1/week | 23 | ° C | 24 | ° C | 21 ° C |
| Total Alkalinity/CaCO ₃ | 6/day | 60 | | 68 | | 52 |
| Total Chlorine | 6/day | 1.33 | mg/l | 2.09 | mg/l | 0.43 mg/l |
| Total Dissolved Solids | 2/day | 626 | mg/l | 689 | mg/l | 564 mg/l |
| Total Hardness | 6/day | 156 | mg/l | 169 | mg/l | 139 mg/l |
| * at Water Treatment Plant | | | | | | |
| Prepared by West Des Moines Water Works | | | | | | |
| July 6, 2018 | | | | | | |
| | | |  Mitch Pinkerton Water Production Manager | | | |

SUMMARY OF WATER QUALITY REPORT
June, 2018

Summary Statement

To West Des Moines Water Works, the quality of water provided to its customers is of vital importance. Therefore, monitoring is conducted at least as often as required by rules of the U.S. Environmental Protection Agency and the Iowa Department of Natural Resources. For many substances, West Des Moines Water Works voluntarily monitors more frequently than is required by the governmental rules.

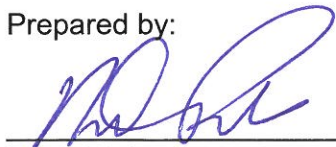
All U.S. Environmental Protection Agency and the Iowa Department of Natural Resources requirements are being met at this time.

For a complete list of all sampling results, please contact the West Des Moines Water Works Treatment Plant at (515) 222-3465.

New Test Results Received Since the Last Report

Water samples received during this month met or exceeded water quality standards.

Prepared by:



Mitch Pinkerton
Water Production Manager

WEST DES MOINES WATER WORKS
July 6, 2018