

SUBSTANCES FREQUENTLY MONITORED BY						
WEST DES MOINES WATER WORKS						
RAW WATER (BEFORE TREATMENT)						
December 2017						
Substance	Test Frequency	Concentration		Low		
Calcium Hardness	1/week	262 mg/l	280 mg/l	242 mg/l		
Copper	1/week	0.05 mg/l	0.07 mg/l	0.03 mg/l		
Fluoride	1/week	1.7 mg/l	1.8 mg/l	1.5 mg/l		
Iron	1/week	0.17 mg/l	0.20 mg/l	0.15 mg/l		
Magnesium Hardness	1/week	87 mg/l	108 mg/l	72 mg/l		
Manganese	1/week	0.12 mg/l	0.13 mg/l	0.11 mg/l		
Nitrate as Nitrogen	1/week	0.29 mg/l	0.38 mg/l	0.26 mg/l		
Orthophosphate	1/week	0.09 mg/l	0.10 mg/l	0.08 mg/l		
Phenolphthalein						
Alkalinity as CaCO3	1/week	0	0	0		
pH (pH units)	1/week	7.2	7.4	7.1		
Sulfate	1/week	296 mg/l	335 mg/l	250 mg/l		
Temperature	1/week	21 ° C	22 ° C	21 ° C		
Total Alkalinity/CaCO3	1/week	276	282	268		
Total Dissolved Solids	1/week	681 mg/l	747 mg/l	631 mg/l		
Total Hardness	1/week	349 mg/l	368 mg/l	336 mg/l		
FINISHED WATER (AFTER TREATMENT)						
(INCLUDES PURCHASED WATER)						
Substance	Test Frequency	Concentration		Low		
Calcium Hardness	6/day	71 mg/l	92 mg/l	60 mg/l		
Copper	1/week	0.02 mg/l	0.02 mg/l	0.01 mg/l		
Fluoride	1/day	1.2 mg/l	1.4 mg/l	1 mg/l		
Free Chlorine *	6/day	1.0 mg/l	1.4 mg/l	0.6 mg/l		
Iron	1/week	0.05 mg/l	0.09 mg/l	0.01 mg/l		
Magnesium Hardness	1/week	64 mg/l	77 mg/l	42 mg/l		
Manganese	1/week	0.004 mg/l	0.005 mg/l	0.002 mg/l		
Nitrate as Nitrogen	1/week	0.71 mg/l	0.89 mg/l	0.57 mg/l		
Orthophosphate	1/week	0.2 mg/l	0.2 mg/l	0.1 mg/l		
Phenolphthalein						
Alkalinity as CaCO3	6/day	18	26	12		
pH (pH units)	6/day	9.4	9.6	9.2		
Polyphosphate	1/week	0.2 mg/l	0.3 mg/l	0.1 mg/l		
Sulfate	1/week	284 mg/l	305 mg/l	250 mg/l		
Temperature	1/week	20 ° C	22 ° C	19 ° C		
Total Alkalinity/CaCO3	6/day	63	80	55		
Total Chlorine	6/day	1.13 mg/l	1.82 mg/l	0.85 mg/l		
Total Dissolved Solids	2/day	532 mg/l	611 mg/l	489 mg/l		
Total Hardness	6/day	135 mg/l	152 mg/l	126 mg/l		
* at Water Treatment Plant						
Prepared by West Des Moines Water Works		Mitch Pinkerton				
January 10, 2018		Water Production Manager				

SUMMARY OF WATER QUALITY REPORT
December, 2017

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
January 10, 2018