

# DMWW Water Quality Report for Industrial/Commercial Applications

Average Values for 2018

Corrosion Control		Fleur	McMullen (Maffitt)	Saylorville	Units
	pH	9.44	9.46	8.54	NA
	Total Alkalinity *	57	59	132	mg/L
	Calcium Hardness *	90	73	94	mg/L
	Magnesium Hardness *	41	52	52	mg/L
	Total Hardness *	131	124	146	mg/L
	Total Hardness grains/gallon**	7.7	7.3	8.5	gpg
	CCPP	12.8	13.5	10.6	mg/L
	TDS	235	207	213	mg/L
	Conductivity	391	346	355	uS
	Silica $\tau$	12	12	4	mg/L
	TOC	1.23	1.39	0.99	mg/L
	Chlorine, Free: Distribution	0.85	0.85	$\beta$	mg/L
	Chlorine, Total: Distribution	1.06	1.06	$\beta$	mg/L
Chlorine, Free: Leaving Plant	1.39	1.28	1.02	mg/L	

\* Expressed in CaCO<sub>3</sub> equivalents \*\*Hardness as grains per gallon, units common for water softeners

$\tau$  Silica is not routinely monitored but historically has remained constant

$\beta$  Water supplied to the City of Ankeny distribution system

Metals		Fleur	McMullen (Maffitt)	Saylorville	Units
	Sodium	18	14	15	mg/L
	Lead	<0.005	< 0.005	<0.005	mg/L
	Copper	<0.02	<0.02	<0.02	mg/L
	Iron	<0.05	<0.05	<0.05	mg/L
	Manganese	<0.02	<0.02	<0.02	mg/L
	Potassium	3.11	2.98	1.18	mg/L

Physical		Fleur	McMullen (Maffitt)	Saylorville	Units
	Turbidity On-Line	0.06	0.05	0.05	NTU
	Temperature	59	57	59	°F

Inorganics		Fleur	McMullen (Maffitt)	Saylorville	Units
	Fluoride	0.63	0.67	0.67	mg/L
	Chloride	38	31	12	mg/L
	Nitrite-N	<0.1	<0.1	<0.1	mg/L
	Bromide	<0.1	<0.1	<0.1	mg/L
	Nitrate-N	5.1	4.8	1.0	mg/L
	Phosphate-P	<0.1	<0.1	<0.1	mg/L
Sulfate	45	38	26	mg/L	

**Abbreviations:**

C.C.P.P. (Calcium Carbonate Precipitation Potention) is the amount of hardness that can come out of the water at ambient temperatures to form protective scale on plumbing surfaces.

TDS (Total Dissolved Solids) is the total concentration of dissolved minerals in the water. TDS greater than 500 mg/l can cause problems to some industrial users.

TOC (Total Organic Carbon) is a potential source of food for bacteria and a precursor to disinfection by-products

For more information about the Des Moines Water Works, its treatment processes, and on-line drinking water quality information, visit our website at [www.dmww.com](http://www.dmww.com).