

# DMWW Water Quality Report for Industrial/Commercial Applications

Average Values for September-18

Corrosion Control		Fleur	Maffitt	Saylorville	Units
	pH	9.27	9.67	8.55	NA
	Total Alkalinity *	50	59	137	mg/L
	Calcium Hardness *	80	89	93	mg/L
	Magnesium Hardness *	25	35	50	mg/L
	Total Hardness *	105	124	142	mg/L
	Total Hardness grains/gallon**	6.1	7.2	8.3	gpg
	CCPP	11.40	23.83	13.72	mg/L
	TDS	187	215	214	mg/L
	Conductivity	311	359	357	uS
	Silica $\tau$	12	12	4	mg/L
	TOC	1.06	1.24	1.14	mg/L
	Chlorine, Free: Distribution	0.82	0.82	$\beta$	mg/L
	Chlorine, Total: Distribution	0.96	0.96	$\beta$	mg/L
Chlorine, Free: Leaving Plant	1.37	1.33	1.05	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	Maffitt	Saylorville	Units
	Sodium	13	16	13	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	3.07	3.24	1.39	mg/L

Physical		Fleur	Maffitt	Saylorville	Units
	Turbidity On-Line	0.04	0.03	0.03	NTU
	Temperature	75	70	69	°F

Inorganics		Fleur	Maffitt	Saylorville	Units
	Fluoride	0.60	0.69	0.71	mg/L
	Chloride	28	28	11	mg/L
	Nitrite-N	<0.1	<0.1	<0.1	mg/L
	Bromide	<0.1	<0.1	<0.1	mg/L
	Nitrate-N	4.2	4.6	1.0	mg/L
	Phosphate-P	<0.1	<0.1	<0.1	mg/L
Sulfate	32	41	20	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.

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).