

# DMWW Water Quality Report for Industrial/Commercial Applications

Average Values for April-18

Corrosion Control		Fleur	Maffitt	Saylorville	Units
	pH	9.51	9.42	8.50	NA
	Total Alkalinity *	60	55	119	mg/L
	Calcium Hardness *	103	69	84	mg/L
	Magnesium Hardness *	41	61	48	mg/L
	Total Hardness *	143	130	129	mg/L
	Total Hardness grains/gallon**	8.4	7.6	7.6	gpg
	CCPP	14.44	10.35	6.70	mg/L
	TDS	242	204	198	mg/L
	Conductivity	405	344	329	uS
	Silica $\tau$	12	12	4	mg/L
	TOC	1.25	1.61	0.97	mg/L
	Chlorine, Free: Distribution	1.05	1.05	$\beta$	mg/L
	Chlorine, Total: Distribution	1.21	1.21	$\beta$	mg/L
	Chlorine, Free: Leaving Plant	1.38	1.25	1.01	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	17	13	14	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	2.69	3.50	0.93	mg/L

Physical		Fleur	Maffitt	Saylorville	Units
	Turbidity On-Line	0.06	0.05	0.05	NTU
	Temperature	48	48	49	°F

Inorganics		Fleur	Maffitt	Saylorville	Units
	Fluoride	0.61	0.65	0.65	mg/L
	Chloride	41	34	13	mg/L
	Nitrite-N	<0.1	<0.1	<0.1	mg/L
	Bromide	<0.1	<0.1	<0.1	mg/L
	Nitrate-N	6.5	5.9	1.3	mg/L
	Phosphate-P	<0.1	<0.1	<0.1	mg/L
Sulfate	41	38	27	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).