

# DMWW Water Quality Report for Industrial/Commercial Applications

Annual Average Values for the month of September-17

Corrosion Control		Fleur	Maffitt	Saylorville	Units
	pH	9.42	9.21	8.68	NA
	Total Alkalinity *	51	65	125	mg/l
	Calcium Hardness *	86	70	95	mg/l
	Magnesium Hardness *	20	47	51	mg/l
	Total Hardness *	106	127	146	mg/l
	Total Hardness grains/gallon**	6.2	7.4	8.6	gpg
	CCPP	16.21	11.92	12.85	mg/l
	TDS	206	259	243	mg/l
	Conductivity	332	369	347	us
	Silica $\tau$	12	12	4	mg/l
	TOC	1.03	1.29	0.86	mg/l
	Chlorine, Free: Distribution	0.66	0.66	$\beta$	mg/L
	Chlorine, Total: Distribution	0.78	0.78	$\beta$	mg/l
Chlorine, Free: Leaving Plant	1.21	1.30	0.96	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	25	16	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	3.14	3.31	1.04	mg/l

Physical		Fleur	Maffitt	Saylorville	Units
	Turbidity On-Line	0.10	0.04	0.05	NTU
	Temperature	75	70	68	°F

Inorganics		Fleur	Maffitt	Saylorville	Units
	Fluoride	0.70	0.73	0.73	mg/l
	Chloride	35	32	14	mg/l
	Nitrite-N	<0.1	<0.1	<0.1	mg/l
	Bromide	<0.1	<0.1	<0.1	mg/l
	Nitrate-N	0.4	0.4	0.1	mg/l
	Phosphate-P	<0.1	<0.1	<0.1	mg/l
Sulfate	51	71	36	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).