

DMWW Water Quality Report for Industrial/Commercial Applications

Average Values for the Month of Aug-2016

Corrosion Control		Fleur	Maffitt	Saylorville	Units
	pH	9.59	9.57	8.46	NA
	Total Alkalinity *	45	67	125	mg/l
	Calcium Hardness *	91	86	95	mg/l
	Magnesium Hardness *	21	37	52	mg/l
	Total Hardness *	112	123	147	mg/l
	Total Hardness grains/gallon**	6.5	7.2	8.6	gpg
	CCPP	18.3	24.1	8.9	mg/l
	TDS	199	215	209	mg/l
	Conductivity	332	359	349	us
	Silica τ	12	12	4	mg/l
	TOC	0.83	0.95	0.68	mg/l
	Chlorine, Free: Distribution	0.80	0.80	β	mg/L
Chlorine, Total: Distribution	0.93	0.93	β	mg/l	
Chlorine, Free: Leaving Plant	1.24	1.14	1.00	mg/l	

* Expressed in CaCO₃ equivalents **Hardness as grains per gallon, units common for water softeners

τ Silica is not routinely monitored but historically has remained constant

β Water supplied to the City of Ankeny distribution system

Metals		Fleur	Maffitt	Saylorville	Units
	Sodium	14	18	14	mg/l
	Lead	<0.006	<0.006	<0.006	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	2.74	2.85	1.15	mg/l

Physical		Fleur	Maffitt	Saylorville	Units
	Turbidity On-Line	0.05	0.03	0.07	NTU
	Temperature	78	74	71	°F

Inorganics		Fleur	Maffitt	Saylorville	Units
	Fluoride	0.73	0.81	0.63	mg/l
	Chloride	30	31	14	mg/l
	Nitrite-N	<0.1	<0.1	<0.1	mg/l
	Bromide	<0.1	<0.1	<0.1	mg/l
	Nitrate-N	4.3	3.6	0.9	mg/l
	Phosphate-P	<0.1	<0.1	<0.1	mg/l
Sulfate	43	50	32	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.