

WATER QUALITY AND TREATMENT DIVISION
TABLE 5 - MILLER PLANT WATER QUALITY FY2020 (Jul 2019 - Jun 2020)
(mg/L, except as noted)

	FY 2020			PRIOR 5 YEARS		
	AVERAGE	MAXIMUM	MINIMUM	AVERAGE	MAXIMUM	MINIMUM
RAW WATER						
Turbidity (NTU)	38	176	3.9	51	541	2.4
Total Alkalinity (as CaCO ₃)	73	100	46	71	97	44
Total Hardness (as CaCO ₃)	113	160	78	123	182	76
Calcium (as Ca) ^a	32	44	23	38	46	27
Magnesium (as Mg) ^a	7	12	3.8	7.2	16	0.5
pH (Units)	7.8	8.3	7.5	8	9	7
Chloride	21	38	9.8	28	46	12
Fluoride ^b	0.13	0.22	0.08	0.13	0.30	0.07
Sulfate	55	94	34	59	98	36
Nitrate (as NO ₃ - N)	0.83	1.20	0.51	0.78	1.66	0.40
Iron (as total Fe)	1.47	1.47	1.47	1.12	1.60	0.55
Manganese (as total Mn)	0.08	0.08	0.08	0.20	0.68	0.03
Sodium	30	86	10	17	27	10
Total Solids	243	292	191	264	1391	134
Total Dissolved Solids	197	270	142	213	316	132
Total Organic Carbon	3.23	4.21	1.87	2.92	5.38	1.69
FINISHED WATER						
Turbidity (NTU)	0.06	0.09	0.03	0.07	0.13	0.03
Total Alkalinity (as CaCO ₃)	80	117	51	76	107	43
Total Hardness (as CaCO ₃)	117	167	86	124	172	90
Calcium (as Ca) ^a	33	44	26	38	48	24
Magnesium (as Mg) ^a	8	12	5	7.1	19	1.7
pH (Units)	8.9	9.2	8.8	8.8	9.1	7.4
Chloride	22	40	10	29	47	12
Fluoride	0.85	0.98	0.68	0.87	1.10	0.68
Sulfate	56	89	42	64	95	47
Nitrate (as NO ₃ - N)	0.86	1.30	0.50	0.79	1.43	0.40
Iron (as total Fe)	0.08	0.08	0.08	< 0.04	< 0.04	< 0.04
Manganese (as total Mn)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001
Sodium	25	41	16	28	43	17
Total Solids ^c	207	304	140	222	306	148
Total Dissolved Solids	207	304	140	222	306	148
Total Organic Carbon	0.82	1.25	0.48	0.76	1.44	0.36
Phosphate (as PO ₄ - P)	0.18	0.22	0.14	0.16	0.24	0.04
Chlorine Residual, Free	1.38	1.66	1.16	1.23	1.54	0.95
Chlorine Residual, Total	1.45	1.76	1.19	1.29	1.60	1.01

(a) Calcium and Magnesium values are calculated from hardness data.

(b) Fluoride samples were collected from west seal well. It is assumed that fluoride levels were similar at raw and west seal well.

(c) The concentration of total solids at CW1E is expected to be similar to that of TDS since turbidity level is very low for finished water (< 0.15 NTU).