

# 2019 TOTAL WATER QUALITY COMPOSITE

Analyte	Matrix	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	AVG
Alkalinity [mg/l]	Raw	95	102	80	97	99	84	68	65	72	75	76	80	83
Alkalinity [mg/l]	Finished	83	89	70	84	80	70	52	51	57	60	63	66	69
Chloride [mg/l]	Finished		0.8			1.1			0.8					0.9
Chlorine (free) [mg/l]	Finished	2.13	2.09	2.12	1.95	1.95	2.00	1.97	2.02	2.02	1.99	1.99	2.15	2.03
Chlorine (total) [mg/l]	Storage	2.06	2.06	2.02	1.94	1.92	1.94	1.87	1.84	1.86	1.82	1.78	2.02	1.93
Copper [mg/l]	Raw	0.010	0.020	0.080	0.170	0.010	0.050	0.070	0.010	0.120	0.040	0.080	0.060	0.060
Copper [mg/l]	Finished	0.010	0.030	0.010	0.010	0.010	0.020	0.010	0.020	0.020	0.030	0.010	0.030	0.018
Dissolved Oxygen [mg/l]	Raw	9.2	8.7	12.4	6.8						7.8			9.0
Dissolved Oxygen [mg/l]	Finished	10.4	9.1	13.4	7.3						8.4			9.7
Fluoride [mg/l]	Finished								0.17	0.31	0.18	0.17	0.26	0.22
Hardness [mg/l]	Raw	156	145	142	145	130	109	93	93	104	109	117	129	123
Hardness [mg/l]	Finished	155	145	137	144	129	109	92	93	104	109	117	130	122
Hardness, Calcium [mg/l]	Finished	118	116	116	108	99	83	79	82	85	77	82	94	95
Hardness, Magnesium [mg/l]	Finished	37	29	21	37	30	26	13	11	19	32	35	36	27
Iron, Total [mg/l]	Raw	0.090	0.330	0.260	0.290	0.140	0.310	0.280	0.160	0.110	0.140	0.360	0.190	0.222
Iron, Total [mg/l]	Finished	0.030	0.180	0.030	0.010	0.010	0.010	0.010	0.030	0.020	0.010	0.010	0.010	0.030
Monochloramine [mg/l]	Storage	1.68	1.69	1.69	1.76	1.56	1.82	1.52	1.48	1.51	1.44	1.35	1.54	1.59
Nitrate[mg/l]	Raw	0.5	1.3		0.1	0.7	0.4		0.4	0.4	0.4	0.5	0.4	0.5
Nitrate[mg/l]	Finished	1.2	0.7		1.1	1.3	1.5		1.5	1.4	1.4	1.4	1.4	1.3
Nitrite [mg/l]	Raw	0.001	0.003	0.008	0.007	0.005	0.005	0.003	0.004	0.008	0.003	0.007	0.004	0.005
Nitrite [mg/l]	Finished	0.001	0.001	0.008	0.004	0.005	0.004	0.005	0.003	0.004	0.005	0.004	0.003	0.004
pH	Raw	8.2	8.3	8.3	8.0	8.2	8.1	7.9	7.9	8.1	8.1	7.9	8.0	8.1
pH	Finished	7.3	7.3	7.3	7.1	7.2	7.0	6.9	6.9	7.0	7.0	6.9	7.0	7.1
Phosphorus	Raw	0.18	0.18	1.34	0.13	0.11	0.11	0.17	0.18	0.10	0.23	0.08	0.08	0.24
Phosphorus	Finished	2.05	0.13	0.04	0.06	0.07	0.09	0.07	0.16	0.03	0.04	0.04	0.01	0.23
Silicates	Raw	11.0	12.3	14.5	14.7	14.8	17.3	13.2	18.9	17.5	20.9	10.4	13.8	14.9
Silicates	Finished	8.4	11.0	10.2	11.0	13.4	14.5	15.2	16.2	16.6	19.4	10.4	11.4	13.1
Sulfate	Raw	45.0	41.0	49.0	46.0	36.0	25.0	16.0	20.0	21.0	21.0	20.0	41.0	31.8
Sulfate	Finished	60.0	57.0	65.0	64.0	47.0	44.0	33.0	32.0	36.0	34.0	37.0	54.0	46.9
Temperature [C]	Raw	5	3	5	8	10	13	15	15	14	10	6	4	9
Total Dissolved Solids	Raw	184	196	198	199	167	140	119	123	130	143	120	120	153
Total Dissolved Solids	Finished	191	200	205	205	175	146	134	131	139	146	125	124	160
Turbidity (NTU)	Raw	13	17	28	16	20	14	22	21	13	9	12	17	17
Turbidity (NTU)	Clarifier	0.78	0.75	1.10	0.88	1.01	0.98	0.90	0.74	0.82	0.70	0.93	1.23	0.90
Turbidity (NTU)	Finished	0.048	0.046	0.049	0.047	0.067	0.056	0.059	0.060	0.063	0.062	0.060	0.067	0.057