

## 2021 Water Quality Composite

Analyte	Matrix	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.
Total Alkalinity (mg/L)	Raw	89	90	92	93	93	91	89	89	84	92	95	97	91
Total Alkalinity (mg/L)	Finished	76	74	78	79	80	78	76	75	72	79	82	82	78
Total Hardness (mg/L)	Raw	144	144	128	126	123	121	119	120	122	128	146	154	131
Total Hardness (mg/L)	Finished	144	143	129	126	122	121	119	119	122	129	146	154	131
Magnesium Hardness (mg/L)	Finished	40	38	30	33	31	31	30	29	32	35	39	43	34
Calcium Hardness (mg/L)	Finished	104	105	99	92	91	90	89	90	90	93	107	111	97
pH	Raw	8.1	8.2	8.2	8.1	8.0	8.1	8.0	8.1	8.2	8.2	8.2	8.2	8.1
pH	Finished	7.3	7.3	7.3	7.2	7.3	7.3	7.2	7.2	7.4	7.4	7.3	7.5	7.3
Turb (NTU)	Raw	7.8	11.7	15.2	14.6	10.9	12.2	17.7	15.4	11.1	7.2	7.8	12.3	12.0
Turb (NTU)	Clarafier	0.81	0.63	0.59	0.79	0.59	0.50	0.43	0.39	0.36	0.37	0.41	0.61	0.54
Turb (NTU)	Finished	0.046	0.047	0.049	0.049	0.046	0.050	0.045	0.048	0.049	0.052	0.046	0.052	0.048
Chlorine residual -free (mg/L)	Finished (DCB eff)	2.01	2.00	1.97	1.83	1.80	1.81	1.80	1.83	1.80	1.81	1.98	2.01	1.89
Chlorine residual -total (mg/L)	Finished/Storage	2.04	2.00	2.00	1.94	1.99	1.98	1.92	1.90	1.84	1.81	2.02	2.05	1.96
Monochloramine (mg/L)	Finished/Storage	1.69	1.66	1.48	1.61	1.66	1.59	1.59	1.63	1.58	1.50	1.79	1.64	1.62
Free Ammonia (as N) (mg/L)	Finished/Storage	0.07	0.03	0.01	0.00	0.01	0.02	0.01	0.01	0.02	0.00	0.00	0.03	0.02
% of residual as Monochloramine	Finished/Storage	81%	84%	75%	84%	89%	83%	85%	88%	87%	83%	88%	85%	84%
Total Ammonia (mg/L)	Finished/Storage	0.52	0.41	0.52	0.45	0.49	0.44	0.48	0.45	0.44	0.42	0.52	0.48	0.47
Color (color units)	Raw	87	123	146	143	92	109	173	144	105	67	74	146	117
Total Dissolved Solids (mg/L)	Raw	130	139	127	118	113	111	110	109	111	117	136	145	122
Total Dissolved Solids (mg/L)	Finished	138	144	130	123	117	115	114	113	115	122	140	149	127
Iron (mg/L)	Raw	0.181	0.15	0.28	0.52	0.33	0.17	0.33	0.48	0.57	0.16	0.12	0.16	0.29
Iron (mg/L)	Finished/Storage	BDL	BDL	BDL	0.01	BDL	0.01	0.01	0.02	BDL	BDL	BDL	BDL	0.01
Copper (ug/L)	Raw	8	BDL	9	BDL	7	5	1	9	9	5	BDL	BDL	7
Copper (ug/L)	Finished/Storage	5	BDL	BDL	BDL	BDL	2	2	1	1	BDL	BDL	BDL	2
Phosphorus (mg/L)	Raw	0.02	0.04	0.04	0.03	0.06	0.08	0.12	0.04	0.06	0.1	0.08	0.05	0.06
Phosphorus (mg/L)	Finished/Storage	0.01	0.01	0.02	0.01	BDL	0.02	0.02	0.02	BDL	0.01	BDL	0.02	0.02
Sulfate (mg/L)	Raw	40.8	50.8	39.8	29.8	21.8	20.8	21.8	18.8	29.8	50	44.2	48.3	34.7
Sulfate (mg/L)	Finished/Storage	54.8	68.8	53.8	43.8	35.8	33.8	34.8	36.8	43.8	72	52.7	62.1	49.4
Fluoride (mg/L)	Raw	0.11	0.14	0.09	0.1	0.13	0.04	0.13	0.14	0.18	0.16	0.32	0.26	0.15
Fluoride (mg/L)	Finished/Storage	0.11	0.19	0.2	BDL	0.09	0.15	0.1	0.22	0.25	0.15	0.29	0.23	0.18