

# 2009 Total Water Quality Composite

Analyte		Jan.	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AVERAGE
Turbidity (NTU)	Raw	9	9	17	15	25	17	22	20	14	12	12	8	14.9
	Clara	0.8	0.7	0.8	0.9	1.7	1.4	1.1	0.9	0.6	0.9	1.2	1.2	1.01
	Fin	0.06	0.06	0.07	0.07	0.08	0.06	0.06	0.06	0.06	0.06	0.07	0.06	0.06
pH	Raw	8.2	8.3	8.2	8.1	8.0	8.1	8.0	8.0	8.1	8.1	8.1	8.1	8.1
	Fin	7.2	7.2	7.2	7.1	7.3	7.3	7.1	7.0	7.1	7.1	7.2	7.2	7.2
Alkalinity [mg/l]	Raw	114	110	113	110	96	91	97	92	78	81	87	86	96
	Fin	92	90	92	91	77	73	77	74	64	66	73	73	78
Hardness [mg/l]	Raw	120	115	119	110	90	85	85	81	85	93	110	119	101
	Fin	120	114	119	110	88	84	85	80	83	93	110	119	100
Ca. Hardness [mg/l]	Fin	103	99	103	94	77	74	78	70	76	76	93	103	87
Mg. Hardness [mg/l]	Fin	17	15	16	16	12	9	7	10	7	17	17	16	13
H <sub>2</sub> O Temp (C)	Fin	6	6	9	11	14	16	15	15	15	11	7	4	11
Particle Count (#/L)	Clara	4041	3912	4915	7950	3462	1297	888	947	595	852	931	971	2563
	Fin	23.5	27.2	66.3	60.3	41.4	34.0	30.3	38.2	40.3	32.7	33.6	36.4	39
Cl <sub>2</sub> (free) [mg/l]	DCB	1.34	1.30	1.46	1.60	1.60	1.53	1.53	1.53	1.55	1.54	1.54	1.73	1.52
Cl <sub>2</sub> (total) [mg/l]	Storage	1.10	1.10	1.22	1.30	1.43	1.50	1.44	1.34	1.40	1.30	1.43	1.67	1.35
Monochloramine [mg/l]	Storage	0.78	0.79	0.88	0.91	0.92	0.99	0.80	1.02	0.86	0.86	0.93	0.92	0.89
Fluoride [mg/l]	Raw	0.23	0.23	0.27	0.31	0.12	0.02			0.21	0.22	0.24	0.19	0.20
	Fin	0.95	0.95	0.95	0.93	0.95								0.95
Specific Conductance [umhos/cm]	Raw	101	104	110	94	125	152	162	144	142	146	170	165	135
	Fin	111	113	120	104	133	161	173	153	152	156	183	173	144
Total Dissolved Solids [mg/l]	Raw	181	164	175	150	128	132	132	123	138	126	196	154	150
	Fin	194	174	173	164	137	139	130	130	144	115	205	180	157
Ammonia (as N) [mg/l]	Raw	0.028	0.033	0.033	BDL	0.017	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.028
Chloride [mg/l]	Raw	1.830		2.877				5.150			0.930			2.697
	Fin	4.540		4.190				3.732			3.930			4.098
Copper [mg/l]	Raw	0.028	0.066	BDL	BDL	BDL	0.039	BDL	0.025	0.045	0.084	BDL	BDL	0.048
	Fin	0.052	0.037	BDL	BDL	BDL	BDL	BDL	0.022	0.028	0.050	BDL	BDL	0.038
Iron [mg/l]	Raw	0.053	0.057	0.076	0.075	0.015	0.141	0.124	0.127	0.105	0.076	0.049	0.045	0.079
	Fin	BDL	BDL	BDL	0.050	0.310	0.012	BDL	BDL	BDL	0.104	BDL	BDL	0.119
Nitrate [mg/l]	Raw	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	Fin	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.4	0.3	0.3
Nitrite [mg/l]	Raw	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	Fin	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dissolved Oxygen [mg/l]	Raw	9.4	9.6	8.2	8.6	6.4	6.5	7.1	6.6	7.5	6.4	8.5	10.6	8.0
	Fin	10.3	9.8	9.1	8.8	8.1	7.4	8.3	7.6	8.0	6.5	10.1	10.3	8.7
Phosphorus [mg/l]	Raw	BDL	BDL	0.073	BDL		0.057	BDL	0.064	BDL	BDL	BDL	BDL	0.065
	Fin	BDL	BDL	BDL	BDL	BDL	BDL	0.063	BDL	BDL	BDL	BDL	BDL	0.063
Silicate [mg/l]	Raw	10.6		10.8				12.7	9.1		7.0			10.0
	Fin	10.7		7.9				8.4	9.1		5.4			8.3
Sulfate [mg/l]	Raw	62.3	56.0	67.6		28.1	33.1	30.7	30.8	30.9	33.2	63.6	53.7	44.5
	Fin	76.5	76.3	78.3		46.8	46.9	45.6	46.0	48.1	50.0	79.7	0.0	54.0