

Inventory of Certified Reference Waters for Major Ions & Nutrients

	BATTLE-02		BIGMOOSE-02		BURTAP-05		CRANBERRY-05		ION-915	
	River Water		Lake Water		Drinking Water		Lake Water		Natural Lake Water	
	lot 0412		lot 0412		lot 0313		lot 0313		lot 1109	
	Value	±2σ	Value	±2σ	Value	±2σ	Value	±2σ	Value	±2σ
Alkalinity, Gran (as CaCO ₃)			1.00	0.412						
Alkalinity, Total (as CaCO ₃)	297	14.3			81.6	3.9	40.0	2.60	43.2	2.82
Aluminum			0.117	0.019					0.02*	
Ammonia (as N)			0.0263	0.009						
Boron	0.263	0.031			0.026	0.006	0.01*			
Calcium	25.1	2.4	2.00	0.20	36.0	2.1	13.0	1.0	13.7	0.909
Chloride	42.4	2.7	0.453	0.053	29.5	1.6	35.4	2.01	1.42	0.214
Colour (Hazen Units)	20.5	6.2	12.9	3.55			19.1	6.3	2*	
Conductivity (µS/cm, 25°C)	962	35.5	21.2	1.32	348	14.8	218	6.76	98.9	4.44
Dissolved Inorganic Carbon (DIC)	69.1	5.8	0.488	0.265	19.2	1.3	9.35	0.85	10.2	1.01
Dissolved Organic Carbon (DOC)	8.2*		3.89	0.37	1.54	0.57	3.57	0.55	1.37	0.41
Fluoride	0.194	0.05	0.065	0.017	0.55	0.08	0.068	0.025	0.03*	
Hardness, Total (as CaCO ₃)	152	11.4	8.5*		128	7.7	55.6	3.50	46.4	3.43
Magnesium	21.7	1.9	0.327	0.027	8.92	0.63	5.65	0.42	2.88	0.217
Nitrate + Nitrite (as N)	0.09*		0.179	0.017	0.44	0.05	0.158	0.023	0.352	0.034
pH	8.54	0.16	8.01	0.233	8.05	0.21	7.71	0.32	7.79	0.315
Potassium	5.53	0.58	0.326	0.035	1.75	0.14	0.70	0.08	0.509	0.063
Silica (as Si)	0.255	0.045	1.76	0.15	0.31	0.04	2.70	0.26	1.18	0.134
Sodium	163	13.0	0.731	0.058	18.8	1.3	20.1	1.76	1.39	0.132
Sulfate (as SO ₄)	149	9.9	5.08	0.28	42.0	2.2	8.86	0.70	3.42	0.430
Total Kjeldahl Nitrogen (TKN)	0.53	0.11	0.17*		0.12*		0.210	0.07	0.10*	
Total Nitrogen	0.57	0.17	0.349	0.052	0.55	0.07	0.346	0.073	0.44	0.053
Turbidity (JTU/NTU)	0.157	0.08	0.12*				0.171	0.068	0.03*	

	HAMIL-20.2		KEJIM-02		MAURI-09		MISSISSIPPI-03		PERADE-09	
	Harbour Water		Soft Lake Water		Soft Lake Water		River Water		River Water	
	lot 1012		lot 0313		lot 0313		lot 0313		lot 0313	
	Value	±2σ	Value	±2σ	Value	±2σ	Value	±2σ	Value	±2σ
Alkalinity, Gran (as CaCO ₃)					7.03	1.1			9.74	0.89
Alkalinity, Total (as CaCO ₃)	110	5.5					142	6		
Aluminum			0.161	0.021	0.08	0.01			0.076	0.018
Ammonia (as N)							0.0251	0.004		
Boron	0.05*									
Calcium	46.1	3.8	0.848	0.088	2.95	0.30	44.9	3.47	4.18	0.38
Chloride	72.1	3.4	5.80	0.41	1.47	0.14	17.3	1.24	1.98	0.13
Colour (Hazen Units)	5.05	3.0	71.1	18.5	46	10	21.0	5.59	23.3	4.7
Conductivity (µS/cm, 25°C)	550	15	32.3	1.9	32.3	2.0	404	14.5	40.0	2.2
Dissolved Inorganic Carbon (DIC)	25.9	2.4	0.368	0.52	1.7*		33.6	3.0	2.41	0.48
Dissolved Organic Carbon (DOC)	3.04	0.6	7.21	0.84	6.07	0.67	6.19	0.97	3.65	0.40
Fluoride	0.29	0.04	0.62*		0.04*		0.148	0.04	0.04*	
Hardness, Total (as CaCO ₃)	167	16	4.6*		11*		188	9.8		
Magnesium	12.6	1.1	0.465	0.040	0.75	0.06	19.1	1.09	0.818	0.056
Nitrate + Nitrite (as N)	1.59	0.18			0.13	0.02	2.43	0.243	0.350	0.028
pH	8.13	0.21	5.30	0.17	6.91	0.29	8.16	0.209	7.07	0.34
Potassium	3.98	0.35	0.225	0.033	0.41	0.03	2.60	0.243	0.507	0.051
Silica (as Si)	0.876	0.10	0.737	0.089	2.53	0.23	0.51	0.086	3.10	0.21
Sodium	42.6	4.0	3.78	0.32	2.20	0.01	10.0	0.78	2.14	0.14
Sulfate (as SO ₄)	43.7	3.6	2.43	0.32	3.78	0.21	32.9	2.28	3.85	0.23
Total Kjeldahl Nitrogen (TKN)	0.28*						0.523	0.20		
Total Nitrogen	2.23	0.24	0.214	0.042	0.30	0.06	2.81	0.36	0.455	0.06
Turbidity (JTU/NTU)			0.2*				0.141	0.066		

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DATE: 2/1/11