

Library Reference 7.6.3

Comparison of South and North data, June 16, 2009.

Parameter	Units	Upper Mixed Layer		Lower Water Layer	
		South	North	South	North
Secchi Disc Depth	meters	2.2	*2		
pH	Std Units	*7.813	*7.943	*7.463	*7.49
Temperature	°C	*19.883	*20.63	*13.813	*13.727
Specific conductance	umHos/cm	*1877	*1857.333	*2012.667	*2012.333
Dissolved oxygen	mg/L	*9.277	*9.94	*3.647	*3.26
5-day BOD	mg/L	<2	<2	<2	<2
Total Alkalinity	mg/L	150	160	180	180
Total Organic Carbon	mg/L	*3.095	*3.175	*2.635	*2.765
TOC Filtered	mg/L	*3	*3.1	*2.51	*2.655
Total Inorganic Carbon	mg/L	*42.85	*41.6	*49.05	*49.55
Total Kjeldahl Nitrogen	mg/L	*0.604	*0.602	*0.649	*0.688
TKN Filtered	mg/L	*0.433	*0.366	*0.493	*0.551
Organic Nitrogen	mg/L	*0.475	*0.573	*0.371	*0.389
Ammonia-N	mg/L	*0.042	*0.029	*0.278	*0.299
Nitrite-N	mg/L	0.029	0.03	0.062	0.043
Nitrate-N	mg/L	2.14	2.06	1.69	1.73
Total Phosphorus	mg/L	*0.02	*0.018	*0.013	*0.013
Soluble Reactive Phosphorus	mg/L	*0.001	*0.001	*0.002	*0.003
Silica (dissolved)	mg/L	*1.6	*1.685	*3.005	*3.52
Calcium	mg/L	128	123	141	137
Sodium	mg/L	233	217	261	246
Potassium	mg/L	4.28	4.14	4.26	4.2
Sulfate	mg/L	126	129	134	136
Chloride	mg/L	405	406	458	456
Total Solids	mg/L	*1245	*1292	*1355	*1326
Total Volatile Solids	mg/L	*208	*296	*242	*237
Total Suspended Solids	mg/L	*2	*2	*2	*2
Volatile Suspended Solids	mg/L	*2	*2	*2	*2
Total Dissolved Solids	mg/L	*1190	*1146	*1233	*1181
Turbidity	NTU	*3.72	*4.085		
Arsenic	mg/L	<0.002	<0.002	<0.002	<0.002
Iron	mg/L	0.111	0.131	0.051	0.0711
Copper	mg/L	<0.0025	<0.0025	<0.0025	<0.0025
Chromium	mg/L	<0.0020	<0.0020	<0.0020	<0.0020
Cadmium	mg/L	<0.0008	<0.0008	<0.0008	<0.0008
Mercury	ng/l	3.25	1.95	3.27	2.15
Methyl mercury	ng/l	0.085	0.063	<0.05	<0.05
Lead	mg/L	<0.002	<0.002	<0.002	<0.002
Magnesium	mg/L	22.6	22.6	23.2	23.7
Manganese	mg/L	<0.0200	<0.0200	0.118	0.0598
Nickel	mg/L	<0.0038	<0.0038	<0.0038	<0.0038
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002
Zinc	mg/L	0.0091	0.0077	0.0078	0.0073
Phaeophytin-a	mg/m3	0.27	1.44		
Chlorophyll-a	mg/m3	5.34	2.67		
Fecal Coliforms	count/100	30	48		
E. Coli	count/100	21	23		

Notes: * indicates the data were averaged over several depths: UML = 0m, 3m and 6m; LWL = 12m, 15m, 18m

The averages are based on concentration data, and are not volume-averages. Phaeophytin-a and Chlorophyll-a were collected as Tube Composites. Averages were calculated using the laboratory reported limit of detection when an observation was reported at below that limit. NA: Not Analyzed.

Ultra low-level mercury and methyl mercury data were collected on June 29, 2009.