

Library Reference 7.6.5

Comparison of South and North data, November 17, 2009.

Parameter	Units	Upper Mixed Layer		Lower Water Layer	
		South	North	South	North
Secchi Disc Depth	meters	2.9	*3.6		
pH	Std Units	*7.893	*7.95	*7.863	*7.78
Temperature	°C	*10.247	*10.197	*10.145	*10.055
Specific conductance	umHos/cm	*1948.667	*1939.333	*1951.25	*1984.5
Dissolved oxygen	mg/L	*10.217	*10.087	*10.12	*8.775
5-day BOD	mg/L	<2	<2	<2	<2
Total Alkalinity	mg/L	180	170	170	170
Total Organic Carbon	mg/L	*3.37	*3.255	*3.353	3.17
TOC Filtered	mg/L	*3.15	*3.045	*3.133	3.01
Total Inorganic Carbon	mg/L	*46.2	*46.1	*46.267	50
Total Kjeldahl Nitrogen	mg/L	*0.628	*0.633	*0.619	*0.644
TKN Filtered	mg/L	*0.45	*0.45	*0.514	*0.496
Organic Nitrogen	mg/L	*0.424	*0.428	*0.408	*0.414
Ammonia-N	mg/L	*0.204	*0.205	*0.211	*0.229
Nitrite-N	mg/L	0.064	0.061	0.062	0.061
Nitrate-N	mg/L	1.98	1.76	1.93	1.72
Total Phosphorus	mg/L	*0.046	*0.048	*0.043	*0.072
Soluble Reactive Phosphorus	mg/L	*0.007	*0.007	*0.007	*0.011
Silica (dissolved)	mg/L	*2.725	*2.945	*2.84	3.77
Calcium	mg/L	138	140	138	141
Sodium	mg/L	236	232	240	236
Potassium	mg/L	4.49	4.63	4.6	4.54
Sulfate	mg/L	152	152	155	146
Chloride	mg/L	449	444	449	434
Total Solids	mg/L	*1227	*1218	*1219.333	1244
Total Volatile Solids	mg/L	NA	NA	NA	NA
Total Suspended Solids	mg/L	*2.5	*2	*2.333	4
Volatile Suspended Solids	mg/L	NA	NA	NA	NA
Total Dissolved Solids	mg/L	*1131	*1123	*1104	1160
Turbidity	NTU	*2.12	*1.635		
Arsenic	mg/L	<0.002	<0.002	<0.002	<0.002
Iron	mg/L	0.0792	0.0673	0.098	0.0703
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	7.02	2.71	12.6	4.4
Methyl mercury	ng/l	0.325	0.616	0.491	4.44
Lead	mg/L	<0.002	<0.002	<0.002	<0.002
Magnesium	mg/L	23.7	23.9	24	24.3
Manganese	mg/L	<0.0200	<0.0200	<0.0200	<0.0200
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	0.0059	0.0057	0.0058	0.0057
Phaeophytin-a	mg/m3	0.53	0.43		
Chlorophyll-a	mg/m3	14.42	16.02		
Fecal Coliforms	count/100	50	12		
E. Coli	count/100	30	7		

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 October 8, 2009