

# PHYSICO-CHEMICAL LIMNOLOGY DATA

Lake Name NAR Personnel BP BJ White Date 03/20/18

Military Time 1010 Station 125 0709803 4151341 Max Depth at Station 19.7 m

Secchi (m): 1st: 1.35 2nd: 1.38 Mean: \_\_\_\_\_ (shaded side of boat, no sunglasses)

Conductivity 293  $\mu\text{S/cm}$  Turbidity 4.91 NTU Weather 50% cloud, calm 30°  
TDS 212 SALINITY 167 NO PH

Depth (m)	Temp (°C)	D.O. (mg/L)	
Surface	<u>4.4</u>	<u>10.81</u>	
1	<u>4.5</u>	<u>10.53</u>	
2	<u>4.5</u>	<u>10.42</u>	
3	<u>4.5</u>	<u>10.39</u>	
4	<u>4.5</u>	<u>10.35</u>	
5	<u>4.5</u>	<u>10.31</u>	
6	<u>4.5</u>	<u>10.27</u>	
7	<u>4.5</u>	<u>10.24</u>	
8	<u>4.5</u>	<u>10.22</u>	
9	<u>4.5</u>	<u>10.20</u>	
10	<u>4.5</u>	<u>10.18</u>	
11	<u>4.5</u>	<u>10.17</u>	
12	<u>4.5</u>	<u>10.14</u>	
13	<u>4.4</u>	<u>10.12</u>	
14	<u>4.4</u>	<u>10.10</u>	
15	<u>4.4</u>	<u>10.09</u>	
16	<u>4.4</u>	<u>10.07</u>	
17	<u>4.4</u>	<u>10.05</u>	
18	<u>4.4</u>	<u>10.03</u>	
19	<u>4.4</u>	<u>9.93</u>	
20			

Depth (m)	Temp (°C)	D.O. (mg/L)	
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
35			
40			
45			
50			
55			
60			
65			
70			
75			

Comments: Deepest spot is off ramp, due west a few 100 yds out (channel)  
I don't trust pH meter - changes constantly, never equalizes for long time

# ZOOPLANKTON SAMPLING DATA

Lake Name NAR Personnel BP BJ JM Date 03/20/18  
 Gear: Wisc. net Clarke-Bumpus Other: Small net Mesh (µm): 153 Other \_\_\_\_\_  
 Station Name mid reservoir Station Number 2 Max Depth at Station 15 m  
 Comments North of station 1 ~ 0.4 miles?  
12S 0709999 4151788

Field data		Counts by Aliquot	Zooplankton Taxa									
Sample no.			<i>Daphnia pulex</i>	<i>Daphnia galeata</i>	Unknown <i>Daphnia</i>	Cyclopoid copepod	Calanoid copepod					
Stratum (m)												
Mil. time												
Final revs												
Start revs												
Total revs												
Liters sampled		Aliq. 1										
Dilution (ml)		Aliq. 2										
Conc. factor		Aliq. 3										

Field data		Counts by Aliquot	Zooplankton Taxa									
Sample no.			<i>Daphnia pulex</i>	<i>Daphnia galeata</i>	Unknown <i>Daphnia</i>	Cyclopoid copepod	Calanoid copepod					
Stratum (m)												
Mil. time												
Final revs												
Start revs												
Total revs												
Liters sampled		Aliq. 1										
Dilution (ml)		Aliq. 2										
Conc. factor		Aliq. 3										

COMMENTS:

# ZOOPLANKTON SAMPLING DATA

Lake Name NAR Personnel BP RJ JW Date 03/20/18  
 Gear: Wisc. net Clarke-Bumpus Other: (small) Mesh ( $\mu$ m): 453 Other \_\_\_\_\_  
 Station Name deep hole Station Number 7 Max Depth at Station 19.5 m  
 Comments very cold (4.5°C) so not expecting much - got some Daphnia  
NOTE - label was mislabeled - "depth stratum" was 10m, depth was 19

Field data		Counts by Aliquot	Zooplankton Taxa									
Sample no.												
Stratum (m)												
Mil. time												
Final revs												
Start revs												
Total revs												
Liters sampled		Aliq. 1										
Dilution (ml)		Aliq. 2										
Conc. factor		Aliq. 3										

Field data		Counts by Aliquot	Zooplankton Taxa									
Sample no.												
Stratum (m)												
Mil. time												
Final revs												
Start revs												
Total revs												
Liters sampled		Aliq. 1										
Dilution (ml)		Aliq. 2										
Conc. factor		Aliq. 3										

COMMENTS:

# PHYSICO-CHEMICAL LIMNOLOGY DATA

Lake Name NAR Personnel BP MM LF Date 3/27/19

Military Time 1448 Station \_\_\_\_\_ Max Depth at Station 16.5 m

Secchi (m): 1st: .75 2nd: .765 Mean: \_\_\_\_\_ Weather \_\_\_\_\_

Conductivity 397 (uS/cm) Turbidity 12.2 (NTU) pH 8.47  
TDS 281 Salt 211

Depth (m)	Temp (°C)	D.O. (mg/L)	Light
Surface	5.1	8.60	
1	5.1	8.62	
2	5.1	8.63	
3	5.0	8.67	
4	5.0	8.65	
5	4.9	8.63	
6	4.8	8.64	
7	4.7	8.64	
8	4.6	8.65	
9	4.6	8.64	
10	4.6	8.64	
11	4.5	8.62	
12	4.4	8.61	
13	4.3	8.61	
14	4.3	8.58	
15	4.2	8.38	
16	4.4	4.43	
17			
18			
19			
20			

Depth (m)	Temp (°C)	D.O. (mg/L)	Light
21			
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26			
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29			
30			
35			
40			
45			
50			
55			
60			

Note: in lakes >35 m deep record by 5-m increments starting at 30, else by 1-m

Comments:

Turbidimeter - passed calibration

VTM 125 0709987 4151460

Temp buoy coordinates - 125 0700031 4151488  
Zoop Tow 1 @ Temp

# PHYSICO-CHEMICAL LIMNOLOGY DATA

Lake Name NAR Personnel CF BP AH Date 6/13/19  
 Military Time 16:31 Station NAR Logger Max Depth at Station 20.3 m  
 Secchi (m): 1st: 3.5 2nd: 3.25 Mean: 3.325 Weather light breeze, sunny  
 Conductivity 366 (uS/cm) Turbidity 2.53 (NTU) pH 8.91

Depth (m)	Temp (°C)	D.O. (mg/L)	Light
Surface	18.6	7.86	
1	18.5	7.88	
2	18.4	7.89	
3	17.1	8.06	
4	17.0	8.09	
5	16.8	8.14	
6	16.5	8.09	
7	14.0	7.72	
8	13.1	7.31	
9	12.6	7.04	
10	12.4	6.97	
11	12.1	6.85	
12	11.9	6.62	
13	11.6	6.32	
14	11.5	6.04	
15	11.5	5.98	
16	11.4	5.86	
17	11.4	5.65	
18	11.3	5.53	
19	11.3	5.49	
20	11.2	5.37	

Depth (m)	Temp (°C)	D.O. (mg/L)	Light
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
35			
40			
45			
50			
55			
60			

Note: in lakes >35 m deep record by 5-m increments starting at 30, else by 1-m

Comments: TDS 260 ppm  
Sal 210 ppm