

LAKES LAY MONITORING PROGRAM

LAY MONITOR DATA SHEET (2023)

SID: _____
ID: _____

MONITOR #1 NAME: _____

MONITOR #2 NAME: _____

MONITOR #3 NAME: _____

LAKE NAME: _____

SITE NAME: _____

AIR TEMP: _____ °C

DATE: _____

SAMPLING TIME: Start _____ Finish _____

SITE DEPTH: _____

SECCHI DISK TRANSPARENCY _____ meters

Weather (circle the best descriptor)

Sky	Clear	Hazy	Cloudy	Overcast
Lake	Calm	Ripples	Waves	White Caps
Wind	Calm	Breezy	Gusty	Windy

Precipitation (Circle the best descriptor below)

None	Past 12 hrs	Past 24 hrs	Past 48 hrs	Past 72 hrs
------	----------------	----------------	----------------	----------------

Temperature Profile

Depth (m)	Temp (°C)	Depth (m)	Temp (°C)
0.1 (Surface)		9.5	
0.5		10.0	
1.0		10.5	
1.5		11.0	
2.0		11.5	
2.5		12.0	
3.0		12.5	
3.5		13.0	
4.0		13.5	
4.5		14.0	
5.0		14.5	
5.5		15.0	
6.0		15.5	
6.5		16.0	
7.0		17.0	
7.5		18.0	
8.0		19.0	
8.5		20.0	
9.0		21.0	

Comments/Observations (see reverse):

LAKE EUTROPHICATION PUBLIC PERCEPTION SURVEY

IF YOU CIRCLE MORE THAN ONE CHOICE FOR A AND/OR B, WE CANNOT USE THE SURVEY DATA THAT WEEK.

A. Please circle the one number that best describes the physical condition of the lake water today.

1. Crystal clear water.
2. Not quite crystal clear, a little algae visible.
3. Definite algae greenness, yellowness or brownest apparent.
4. High algae levels with limited clarity and/or mild odor apparent.
5. Severely high algae levels with one or more of the following:
 massive floating scums on lake washed up on shore
 strong foul odor
 fish kill.

B. Please circle the one number that best describes your opinion on how suitable the lake water is for recreation and aesthetic enjoyment today.

1. Beautiful, could not be any nicer.
2. Very minor aesthetic problems; excellent for swimming, boating, enjoyment.
3. Swimming & aesthetic enjoyment slightly impaired because of algae levels.
4. Desire to swim & level of enjoyment of the lake substantially reduced because of algae levels.
5. Swimming and aesthetic enjoyment of the lake nearly impossible because of algae levels.

View Scope Comparison Study

We invite interested persons to take part in a study assessing the usefulness of the View Scope when collecting water clarity (Secchi Disk) data. In addition to the weekly water clarity readings that you collect (using the view scope), we are interested in obtaining monthly water clarity data using the four methods described below. Make sure you report weather or lake conditions on front page. **Please take 2 readings under each condition (Sunny/Shady Side, With/Without View Scope) and record each value.**

Take Secchi Disk reading from the <u>shady side</u> of the boat without the view scope	Secchi Disk Depth 1) _____ meters 2) _____ meters
Take the Secchi Disk reading from the <u>sunny side</u> of the boat without the view scope	Secchi Disk Depth 1) _____ meters 2) _____ meters
Take the Secchi Disk reading from the <u>shady side</u> of the boat with the view scope	Secchi Disk Depth 1) _____ meters 2) _____ meters
Take the Secchi Disk reading from the <u>sunny side</u> of the boat with the view scope	Secchi Disk Depth 1) _____ meters 2) _____ meters
Take the <u>Black Disk</u> reading from the <u>sunny side</u> of the boat with the view scope	Secchi Disk Depth 1) _____ meters 2) _____ meters

Comments/Observations
(Continued From Front of Page):

Turner Trilogy Results (if measured):

Sampling Depth: _____ (meters)
 Phycocyanin: _____ (RFU)
 Phycocyanin: _____ (ug/l)
 Chlorophyll *a*: _____ (RFU)
 Chlorophyll *a*: _____ (ug/l)

Turner Aquafluor Results (if measured):

Sampling Depth: _____ (meters)
 Phycocyanin: _____ (ug/l)
 Phycoerythrin: _____ (ug/l)
 Chlorophyll *a*: _____ (ug/l)

FluoroQuik Fluorometer Results (if measured):

Sampling Depth: _____ (meters)
Dual Channel FluoroQuik: PC/PE
 Phycocyanin: _____ (ug/l)
 Phycoerythrin: _____ (ug/l)
Dual Channel FluoroQuik: Chl/PC
 Chlorophyll *a*: _____ (ug/l)
 Phycocyanin: _____ (ug/l)

Return to: Attn: Bob Craycraft
 University of New Hampshire
 239 Spaulding Life Sciences
 38 Academic Way
 Durham NH 03824-3544
 Voice: (603) 862-3696
 Email: bob.craycraft@unh.edu

Revised 07/07/2023

Time: Start _____ Finish _____ Date: _____	* Denotes For CFB Use
¹ Integrated chlorophyll samples: Chlorophyll Filter Lakewater volume filtered: _____ ml Filter drying time: _____ hrs Depth sampled: Surface - _____ meters	* _____ * _____
² Point chlorophyll samples: Chlorophyll Filter (if taken) Lakewater volume filtered: _____ ml Filter drying time: _____ hrs Depth sampled: _____ meters	* _____ * _____
¹ Integrated color sample: 60 ml bottle of filtered water _____ YES _____ NO	* _____ * _____
² Point color sample: 60 ml bottle of filtered water (if taken) _____ YES _____ NO	* _____ * _____
Specific Conductivity sample: 60 ml bottle (if taken) Depth of sample: _____ meters	* _____ * _____
Alkalinity Sample Results: Depth sampled: 0- _____ meters Gray endpoint: _____ ml Pink endpoint: _____ ml (estimate to the nearest 0.1ml)	* _____ * _____
pH Sample (if taken) Depth sampled: _____ pH Value _____	* _____ * _____
Optional Samples	
¹ Integrated Total Phosphorus: 250ml acid washed bottle _____ YES _____ NO	* _____ * _____
² Point Total Phosphorus: 250 ml Acid Washed bottle _____ YES _____ NO _____ Depth	* _____ * _____
¹ Sample collected in the surface waters using the integrated sampler (weighted garden hose). ² Sample collected using the point sampling bottle.. Samples are collected at the request of the CFB.	

Integrated Sample		Point Sample	
Chl <i>a</i> 663	_____ / _____	Chl <i>a</i> 663	_____ / _____
Chl <i>a</i> 664	_____ / _____	Chl <i>a</i> 664	_____ / _____
Chl <i>a</i> 665	_____ / _____	Chl <i>a</i> 665	_____ / _____
Chl <i>a</i> 750	_____ / _____	Chl <i>a</i> 750	_____ / _____
Diss. Color 440	_____	Diss. Color 440	_____
Diss. Color 460	_____	Diss. Color 460	_____
Diss. Color 493	_____	Diss. Color 493	_____
Diss. Color 750	_____	Diss. Color 750	_____
Diss. Color 880	_____	Diss. Color 880	_____

Volunteer Monitor Signature: _____