



# New Hampshire Volunteer Lake Assessment Program Field Data Sheet 2011 Sampling Season



Lake Name: \_\_\_\_\_

Town: \_\_\_\_\_

Field Monitors: \_\_\_\_\_

Date Sampled: \_\_\_\_\_

Time Sampled: \_\_\_\_\_

Bottom Depth at deep spot: \_\_\_\_\_ m

**WEATHER CONDITIONS** (Circle one for each):

<u>Cloud Cover</u>	<u>Air Temperature</u>	<u>Wind Conditions</u>	<u>Water Surface</u>	<u>Lake Level</u>
clear	<40° cold	calm	calm	high
hazy	41°-60° cool	breezy	ripples	normal
partly cloudy	61°-80° warm	strong	small waves	low
overcast	>80° hot	gusty	moderate waves	
			white caps	

**PRECIPITATION CONDITIONS** (Check off all that apply):

Raining while sampling: \_\_\_\_\_ Rain in previous 24 hrs: \_\_\_\_\_ Rain in previous 24 - 72 hrs: \_\_\_\_\_

Indicate how much rain: \_\_\_\_\_ **OR** No rain for past \_\_\_\_\_ days

**SAMPLING REMINDERS**

1. Bring your VLAP Monitors field manual for reference.
2. Bring your a clipboard to secure field data sheets and references.
3. Bring your aquatic plant ID references. Compare plants in the lake to the drawings of the plants reference. Submit samples of suspicious looking plants to lab for identification.
4. **Indicate all new sampling locations (including new *E.coli* sampling locations) on a map and fill out a station identification form!** Submit information with samples.
5. Before filling the deep spot bottles, make sure there is no sediment in the Kemmerer bottle.
6. Rinse the big white and big brown bottles with sample water. **Do not rinse the small brown bottle or sterile *E.coli* bottle!**
7. Fill all sample bottles up to the neck of the bottle.
8. Bring a cooler with ice into the field and keep samples on ice.
9. Return samples on ice to the lab within 24-hours of sample collection.
10. Notify the lab when you will be returning samples. (DES Limno Center = 271-2658)

**DEEP SPOT SAMPLES** (One Large White **and** One Small Brown Bottle (with acid) **at each depth**, collected with Kemmerer bottle):

Sample Depths (**meters**): \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

**CHLOROPHYLL-A SAMPLE** (One Large Brown Bottle, does not contain acid):

**Method:** Composite  Integrated Tube

**Starting Sample Depth:** \_\_\_\_\_ m

**Note:** In lakes with 3 thermal layers, start at the mid-point of the middle layer & collect sample at each meter up to 1 meter. In other lakes, start at 2/3 of the depth and collect at every meter up to 1m.

**SECCHI DISK TRANSPARENCY**

**Without ViewScope (required)**

Please take reading on **SHADY** side of boat.

Reading 1 \_\_\_\_\_ m Disk visible on bottom?

Reading 2 \_\_\_\_\_ m \_\_\_\_\_ yes \_\_\_\_\_ no

Average: \_\_\_\_\_ m

**With ViewScope (optional)**

Please take reading on **SUNNY** side of boat.

Reading 1 \_\_\_\_\_ m Disk visible on bottom?

Reading 2 \_\_\_\_\_ m \_\_\_\_\_ yes \_\_\_\_\_ no

Average: \_\_\_\_\_ m

**OVER →**

**TRIBUTARY SAMPLES COLLECTED** (One large white **and** one small brown (with acid) at each station. **Optional:** one small white (*E. coli*). Please list station names & check off samples collected.

Station Name	Big white bottle (pH, turb., cond., chloride)	Sm. brown bottle (phosphorus)	Sm. white bottle ( <i>E.coli</i> )	If <i>E.coli</i> sample, indicate if tributary or in-lake sample

**MONITOR TRAINING QUALIFICATIONS:**

Did one monitor who sampled today attend the VLAP Refresher Workshop this spring? **YES NO**  
 If “NO”: Did at least one monitor who sampled today already sample with the DES Biologist this year during the annual visit? (circle one) **YES NO**  
 If “NO”: Were you trained by another experienced volunteer this season? **YES NO**  
 If “YES”, please list name of volunteer who trained you: \_\_\_\_\_  
 If you answered “NO” to the above three questions, please briefly describe your sample collection training:

**NEW SAMPLING LOCATION:**

Did you sample at a new location this sampling event? (Circle one) **YES NO**  
**If “Yes”, provide a map with station location and fill out a station identification form and submit to lab with samples.** Contact the VLAP Coordinator for a station identification form or print out a form from the DES website at:  
[www.des.nh.gov/organizations/divisions/water/wmb/sampling.htm](http://www.des.nh.gov/organizations/divisions/water/wmb/sampling.htm)

**If you do not have a station identification form, provide the following information:**

**Station Name:** \_\_\_\_\_  
**Type of Station** (specify in-lake, inlet, outlet): \_\_\_\_\_  
**Station Location:** (Please provide one of the following pieces of information)  
 1. **Latitude/Longitude Coordinates:** GPS coordinates: \_\_\_\_\_°N Lat, \_\_\_\_\_°W Long  
 Specify make and model of GPS: \_\_\_\_\_  
 2. **A map indicating the approximate location of station and station name.**

**FIELD OBSERVATIONS** (Please note tributary flow, tributaries that have dried up, recent storms/droughts, algal blooms, suspicious looking plants, wildlife observed, sampling problems, equipment problems, and areas of concern):

Please check and leave phone # if VLAP Coordinator should note immediately.