# CITIZEN LAKE MONITORING NETWORK REFRESHER TRAINING



- Chemistry Procedures
   Review
- Mailing Overview

# SAMPLE COLLECTION

First total phosphorus sample is collected within 2 weeks of ice off

Total phosphorus and chlorophyll-s samples are collected the last two weeks of June, July and August

State of Wisconsin Department of Natural Resources

#### Wisconsin Citizen Lake Monitoring Network – Secchi & Chem Form 3200-099 (R 1/15)

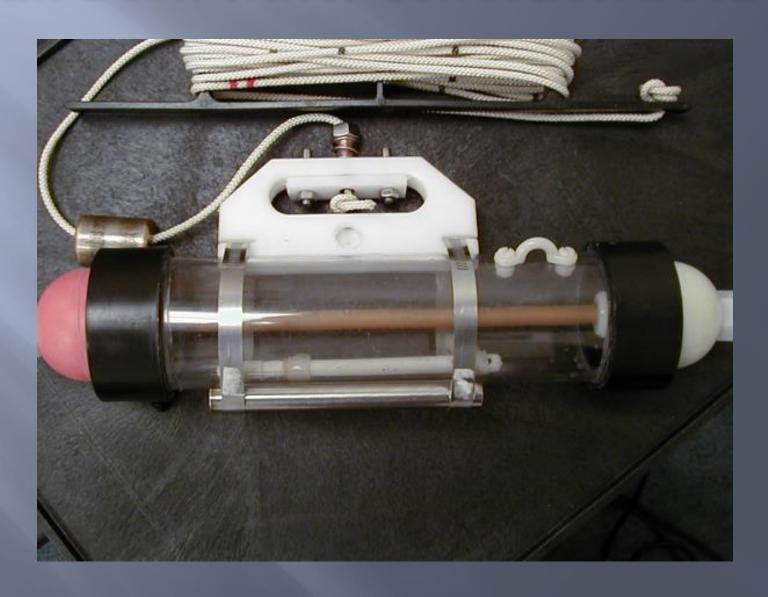
Notice: Information is of		s. 33.02, V	Nis. Stats.	Personal			nation, inclu	iding names (	of volu	unteers, w			buted ii	n conjunctio		ata.
Station ID # (use separate form for each site)					Lake Name						County				Year	
of each v	lames volunteer who on each date		Use	Date 4 digits, May 19 0519	Time Round to nearest hour	near	cchi Depth Round to rest quarter of a foot	Hit Bottom Yes No		ke Level High Low Normal	Appea Cle Mur	ar	Blue	er Color e; Green; wn; Red; 'ellow	*Perception 1 - 5	Date Entered
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Date:		Date:				ate:				Date:			$\neg$			
	D.O. mg/L	Depth	Temp. F	D.O. mg		Depth	Temp. F	D.O. mg/L		Depth	Temp. F	D.O. m		*Perception = Perception of tamount of algae in the water as sample location:  1=Beautiful, could not be any 2=Very minor aesthetic proble excellent for swimming and enjoyment.  3=Swimming and aesthetic er of lake slightly impaired be high algae levels.  4=Desire to swim & level of er of lake substantially reduce because of algae; would no but boating is OK.  5=Swimming and aesthetic er of lake substantially reduce because of algae levels.		any nicer. oblems; and boating c enjoyment because of f enjoyment uced d not swim, c enjoyment uced

If you enter the data on the web, keep a copy for your records. There's no need to mail a paper copy. Otherwise mail the original (blue) copy in the postage paid envelope (or to Citizen Lake Monitoring Network, WI DNR, PO Box 7921, Madison WI 53703; or to your local coordinator) by November 1. The Citizen Lake Monitoring web site is: http://dnr.wi.gov/lakes/clmn/

### Integrated Sampler



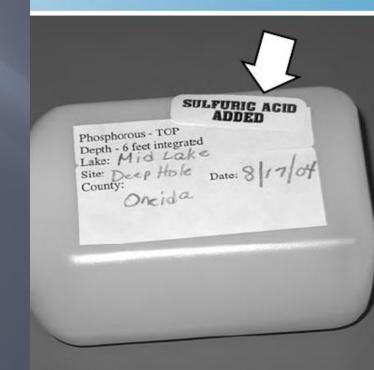
#### Van Dorn water collection bottle



## Phosphorus

- 1. Add 1 vial of acid
- 2. Label the bottle
- 3. No need to check pH
- 4. Chill sample before shipping





#### SULFURIC ACID <51%



THERMO FISHER SCIENTIFIC 520 NORTH MAIN STREET MIAMI, OK 74354 1-828-658-2711

Contains: 1:3 H2S04) 4

May be corrosive to metals. Causes severe skin burns and eye damage. Do not breathe fume/mist/vapours. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Wash contaminated clothing before reuse. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Store in corrosive resistant container with a resistant inner liner.



# Remove label from vial and put on lab form

Place Sulfuric Acid Vial Sticker
Over This Box

250 ml Nutrients Bottle (Acidify w/ Sulfuric Acid)



#### Chlorophyll-a



#### MEASAURE LAKE SAMPLE

200 ml if Secchi > 1.5 ft

100 ml if Secchi 1 - 1.5 ft

50 ml if Secchi < 1 ft

**POUR INTO FILTER CUP** 



USE TWEEZERS TO PLACE FILTER ON CUP BASE

\*Be careful not to touch or tear filter

Either side of filter can be used

We have filter forceps

Rinse graduated cylinder with distilled water and Rinse sides of cup with distilled water so all algae gets on filter





#### PLACE FILTER PAPER IN TUBE

Roll or Fold
As Long As It
Gets
In The Tube

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filtered)		100						
		0.222	nl Nutrients Battle (Acidify w/ S	ulfuric Add)				

### LAB SLIP

Complete the highlighted areas

Write the amount of water you filtered on the Lab Slip

#### Tracking packages

- Tracked 82 packages in northern region August only
- 60 of 82 samples arrived overnight to the State Lab.
- All of the samples arrived at the State Lab between 1:00 and 6:00 am
- Some of the samples in the western part of the state took longer to arrive in Madison – different distribution center?

#### What did we learn?

- If you are able, chill your phosphorus sample in the frig before shipping
- If you are able, put your chlorophyll-a sample in the freezer before shipping
- Use as much ice as possible to pack the samples
- Be sure the zip lock bag is sealed
- If you sample more than one site, it might be a good idea to ship the samples in separate mailers.
- Should send QA samples in separate mailer

#### Shipping Samples

Best to ship on Monday thru Wednesday

- Phosphorus samples stored in refrigerator
- · Chlorophyll samples stored in freezer

#### Common Problems at Sample Receipt

- Using wrong bottles
- No or not enough ice
- · Bottles received, but no lab slip
- Outdated lab slip
- Zip lock bag not sealed and box is soaked
- Missing or errors on lap slip
- · P Samples not preserved with acid

Any of these will delay or prevent getting the results