

Excellent day: calm and sunny although we started out with clouds! Macrophytes growing toward and on surface with some filamentous algae attached.

Flowers/seeds for exotic Eurasian milfoil (unusual in Green Lake), and natives *Ranunculus* (white flowers of Buttercup) & *Potamogeton pectinatus* (looking like small beads on a string for Sago Pondweed).

Variety of visible blue-green algae scattered down several inches below lake surface. Not a "bloom".

Some torn-out-by-boats floating mats of macrophytes, seed filaments, insects, and filamentous algae, etc.

CUSTER COLORS

STATIONS	TIME	SECCHI (FT)	SURFACE TEMP (F)	½ SECCHI & ½ M	LAKE OBSERVATIONS
WEST	1:30	20.0 Ft	72 F	4.0 1.5	CLEAR & green
EAST	1:50	35.0 Ft.	76 F	4.0 1.5	CLEAR & green

AIR TEMP: 80 F west; 85 F east (sunnier later = at east).

My perception of Green Lake today = 2. "Very minor aesthetic problems, great for swimming/boating."

Microscopic observations of plankton samples collected at both East & West deep-water stations via 17 ft. vertical Wisconsin Plankton Net pulls. These organisms are estimated into four categories below:

	<u>Very Abundant</u>	<u>Abundant</u>	<u>Infrequent</u>	<u>Present</u>
Blue-green:		<i>Coelastrum</i>	<i>Lyngbya</i> <i>Microcystis</i>	<i>Gleocystis</i> <i>Gleotrichia</i>
Green:	<i>Sphaerocystis</i> <i>Spirogyra</i>	<i>Pediastrum,</i>	<i>Protococcus</i> & Unknown, 10-15um, unbranched filament	<i>Tetrapedia</i>

Dinoflag. & Protozoa:	<i>Ceratium</i>			<i>Peridinium</i> small flagellates
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Diatoms:	<i>Tabellaria & Fragilaria</i>			
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Desmids & "Golden":	<i>Staurastrum</i>			<i>Closterium</i>
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Zooplankton:	Cyclopoids (eggs)			<i>Bosmina</i>
	Daphnidia (Few at east & west show <i>ephippia</i> forming in brood pouch)			
	Nauplii			<i>Leptodora</i>

Metazoans & Rotifers:	<i>K. cochlearis</i> (eggs)			<i>Conochilus unicornis</i>
	<i>K. quadrata</i> (eggs)			<i>Brochionus</i>

Others:	Pieces of plants & animals! , Insects	Debris		
	Oak leaf stellate hairs!	Dense, dark clusters of sharp, short "needles"!		
	Filaments of terrestrial seeds			

Mary Jane Bumby, Volunteer Monitor, Green Lake, WI

Fifth Report: June 27, 2013

NO HYDROLAB READINGS (June 29, 2013):