EAST & WEST DEEP-WATER STATIONS, GREEN LAKE, GREEN LAKE COUNTY, WI, USA.

Sunny with a light, steady wind from NE at ca. 4 mph. Many gulls. Schools of minnows – especially visible near surface in deep water at west end – probably those previously identified as MIMIC SHINERS by Steven J. Fajfar, of DNR & UW-Madison-Sea Grant. Also, Ted Johnson reported BLUNT-NOSE minnows during recent SCUBA.

In littoral zone, some filamentous algae covering macrophytes is obviously reduced in some areas when viewed from slow moving boat. Many floating Wild Celery are on surface and clearly abundant on the bottom showing through other plants in the community over much of shallower areas. At north shore pier, Eurasian milfoil (EMF) plants now looks frail and skimpy along their long stems, filamentous algae are more limited and several visible Water stargrass plants are growing in a cluster. EMF flowers appear in shallow areas near City dam. Lake level is low now with dams allowing very small flow.

				<u>CUSTER</u>	<u>COLORS</u>	
STATIONS	TIME S	ECCHI (FT) SUR	FACE TEMP (F)	½ SECCH	II & ½ M	LAKE OBSERVATIONS
WEST	1:30	16.5 Ft	68 F	4.0	2.0	Murky & green
EAST	2:25	16.5 Ft.	66 F	4.0	2.5	Murky & green
		AIR	TEMP: 64 F West:	66 F East.		

My perception of Green Lake today = **3.** "Swimming and aesthetic enjoyment slightly impaired"- (due to <u>floating macrophytes which are also thickly growing with some attached filamentous algae in littoral zone).</u>
Microscopic observations of plankton samples collected at both East & West deep-water stations via 17 ft. Wisconsin Plankton Net vertical pulls. These organisms are estimated into four categories below:

	Very Abundant	Abundant	Infrequent	Present				
Blue-greens:	<u>:</u> Anabaena	Coelosphaerium	Gleocapsa	Aphanotheca				
	Microcystis	Gleotrichia =	Gomphosphaeria	Chrococcus				
	Nodularia	(only east sample)	Lyngbya					
Greens:		Oocystis	Characium?	Little Green Balls				
			Coelastrum	Pediastrum				
			Gloeocystis?	Scenesdesmus				
-			Sphaerocystis?	Tetraspora				
Dinoflag. &	Ceratium (some broken, & g	gr. contents released)	small ciliates & flago	ellates				
Protozoa:	Vorticella			"				
<u>Diatoms</u>	Fragilaria	Meridium?		Asterionella				
Desmids &	Dinobryon	Cosmarium		Staurastrum				
<u>"Golden":</u>		Unknown Strands						
Zooplankton	<u>1:</u>		Cyclopoids	Bosmina (very small)				
		imma	ture zebra mussels	Nauplii				
			Ostracoda	Daphnidia				
Metazoans &	K. cochlearis (eggs)		Collotheca	Asplanchna (2)				
Rotifers:	Polyarthra			K. quadrata				
Others:	Pieces of plants & animals!	Many fibers	MANY, active	e, tiny "zoomers"				
Terres	strial seeds and leaves	Debris	filamentous algae on weeds not verified					
Severa	al unknowns moving about (own glob of algal sp. (photo) & seen before.						
Mary Jane B	umby, Volunteer Monitor,	Report # 16, September 6, 2013						

HYDROLAB TO 25 M on afternoon of Sunday, 9/22/2013. TIME: 1.40 - 2:50 PM. West end readings first.

TITE TO BE TO BE TO THE TOTAL OF CONTROL OF																
<u>DEP</u> T	Ή <u>ΤΕ</u>	<u>MP</u>	<u>DO</u>	<u>%</u>	<u>DO</u>	mg/l	SPC	mS/c	<u>m</u> p	<u>H</u>	PCY c	ells/m	l CHLa	ı u/l	TURB/	<u>NTU</u>
M	West	East	West	East	West	East	West	East	West	East	West	East	West	East	West	<u>Ea</u>
<u>1</u>	20.1	20.1	<u>62</u>	<u>65</u>	5.4	5.7	482	482	7.3	6.9	<u>1141</u>	962	334	297	0.7	0.6
<u>5</u>	19.6	19.8	<u>62</u>	<u>66</u>	5.4	5.9	<u>480</u>	<u>481</u>	7.4	7.0	<u>1209</u>	1097	448	424	<u>1.1</u>	1.1
<u>10</u>	19.5	19.7	<u>60</u>	<u>66</u>	5.3	5.8	480	480	7.5	7.0	<u>1050</u>	1161	410	361	1.1	1.1
<u> 15</u>	8.6	10.6	41	41	4.6	4.4	498	500	6.2	6.4	851	1000	319	419	0.3	0.7
<u>20</u>	6.4	7.3	43	<u>41</u>	5.1	4.8	<u>494</u>	498	6.8	6.9	453	614	169	447	0.0	0.3
25	5.4	5.6	46	45	5.7	5.5	495	496	7.0	7.1	494	929	184	291	0.0	0.0