JULY 20, 2013 MONITORING REPT #8

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

Sunny with clouds and calm with very light variable wind. Activity of boats of all varieties and motorboat slop was especially bad! Macrophytes growing thickly toward and floating on surface with attached filamentous algae (*Zygnema, Mougeotia, Spirogyra*). Many more gulls appearing, several hatches of insects, grasshoppers, fireflies and damsel- and dragonflies. Very few butterflies noted.

Variety of visible blue-green algae, etc. scattered down several inches below lake surface – especially in East. Not a "bloom".

Yesterday - due to wind and waves - the lake was very dirty - apparently with suspended sediments - and many aquatic plants floating and attached near pier impeded swimming enjoyment.

CUSTER COLORS

Eighth Report: July 20, 2013

STATIONS	TIME SI	ECCHI (FT) SUF	RFACE TEMP (F)	½ SE(CCHI & ½ I	M LAKE OBSERVATIONS
<u>WEST</u>	1:10	15.5 Ft	82 F	4.0	2.0	Murky & green/brown
<u>EAST</u>	2:00	16.0 Ft.	84 F	4.0	2.0	Murky & green/brown
		AIR TEMP:	92 F west; 93 F e	east.		

My perception of Green Lake today = **4.** "Swimming and aesthetic enjoyment slightly impaired." (due to floating and attached aquatic plants in littoral zone and suspended blue-green algae).

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:

wisconsin Flankton Net vertical puns. These organisms are estimated into four categories below.									
	<u>Very Abundant</u>	Abundant	Infrequent	Present					
Blue-green:	Anabaena,	Gleotrichia	Gloeocapsa	Aphanotheca					
	Microcystis	Coelosphaerium	Gomphosphaeria	Lyngbya					
Green:	Sphaerocystis	Little Green Balls	Coelastrum	Unknown *					
		Spirogyra	Gloeocystis	Mougeotia					
			Tetraspora						
Dinoflag. &	Ceratium (MOST ABUND.)			small flagellates					
Protozoa:	Vorticella								
Diatoms:	Fragilaria			Stephanodiscus					
Desmids &	Staurastrum (#2 MOST AF	BUND.)	Desmidium	Unknown Strands					
"Golden":			Dinobryon						
	Cyclopoids								
Zooplankton:				Leptodora					
	Nauplii								
Metazoans &	Conoc		Ascomorpha						
Rotifers:	K. coc		Brochionus						
	Polya	Polyarthra							
Others:	Pieces of plants & animals!, Insect	ts Debris	Тì	ny, Flat, Round, Fast, Colorless					
ouicis.	Dense, dark clusters of sharp, short "needles"! (photo shows cells)								
	Filaments of terrestrial seeds Clear, sharp and long Empty filaments of cells								
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Mary Jane Bumby, Volunteer Monitor, Green Lake, WI

^{*} Unknown, 10-15 micrometer, filamentous, unbranched