8/15/19

Greenwood Lake Harmful Algal Bloom Sampling Results, Map and Flight Results

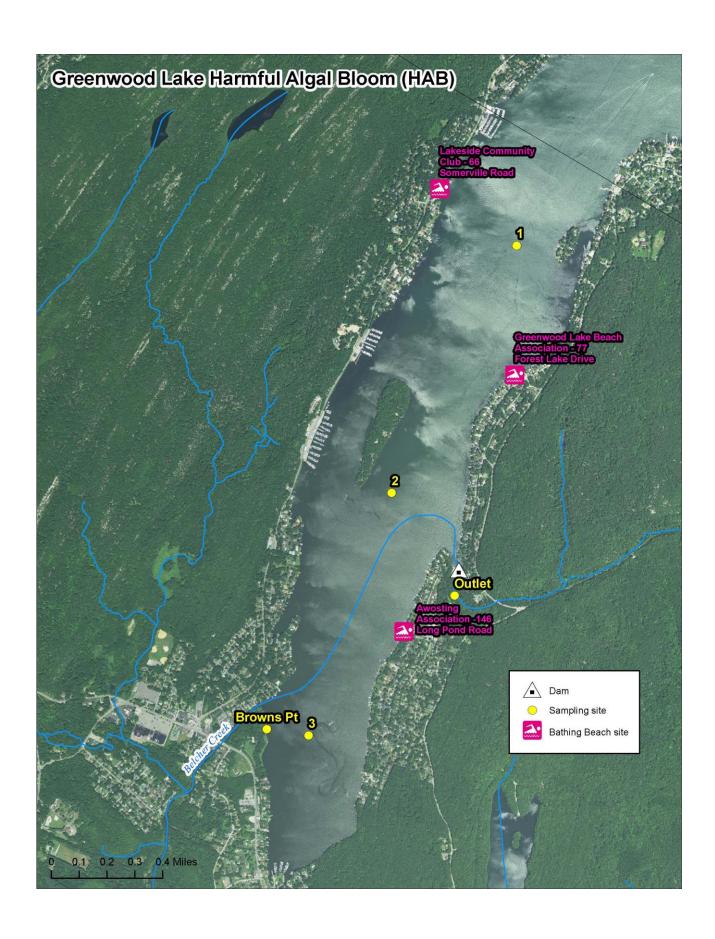
Greenwood Lake Harmful Algal Bloom (HAB) Samples and Results as of 8/14/2019

_	creetimon rave natitum sega propii (tisch) sauchtes and resures as of at 14 to 12																				
	Site name (all within NJ boundary)	Cyanobacteria Counts cells/ml.* Date Sampled										Microcystins_µg/l (lowest Reporting Level 0.15µg/l)* Date Sampled									
Site ID		7/10/2019	7/15/2019	7/22/2019	7/24/2019	7/29/2019	7/31/2019	8/5/2019	8/7/2019	8/13/2019**	8/14/2019**	7/10/2019	7/15/2019	7/22/2019	7/24/2019	7/29/2019	7/31/2019	8/5/2019	8/7/2019	8/13/2019	8/14/2019
		51000	61000	30160	100500	84700	134000	965.00	> 57000	> 45,000	> 55250	1.66	2.56	3,79	2.12	4.63	2.64	4.03	4.67	1.38	1.32
GL001	Mid-lake North	1000000		Designation of	Haracan Marie			- Carlo Carlo			CHOOSELS.		100000	1900	Houses			10000000		100000	139777
GL002	Mid-lake Center		90000	139250	111750	95500	58500	145000	> 34050	> 48250	> 48250	3.01	3.27	4.77	1.43	5.64	2.44	3.37	5.71	1.04	1.02
GL003	Mid-lake South	108000	21 2000	98560	133750	121250	472000	117500	>101300	>91000	>84750	4.45	3.02	4.54	1.65	6.21	2.91	3.67	6.11	0.98	1.19
GL004	Brown's Point		14 8000	232250	90625	15 2750	111250	90000	> 151750	>69500	> 58875		4.50	3.40	2.13	5.66	2.76	3.50	6.18	0.98	0.80
GL005	Lakeside Community Beach	(200		71000	89875	82000	104000	85000	> 55250	>97750	>65000	(446)		3.56	2.38	5.60	2.66	2.61	3.69	1.49	0.85
GL006	Greenwood Lake Beach Assoc		0	33375	86750	30250	63000	56750	> 88250	>103375	>38500	202	222	4.70	3.29	4.09	2.60	2.41	3.15	0.72	0.75
GL007	Awosting Beach			15 6750	87500	77250	87750	128000	> 107750	>119750	>83750			3.28	2.10	4.56	2.46	4.00	3.35	1.15	0.98
GL008	Outlet	344	332423	85375	94625	50250	58000	71000	> 31800	>38750	>37.750	V-010	V 92200	3.74	2.51	4.84	1.53	2,88	3,35	1.79	0.94

*NJ Health Advisory Guidance Levels Cell Count ≥ 20,000 cells/ml; Microcystins ≥ 3µg/L

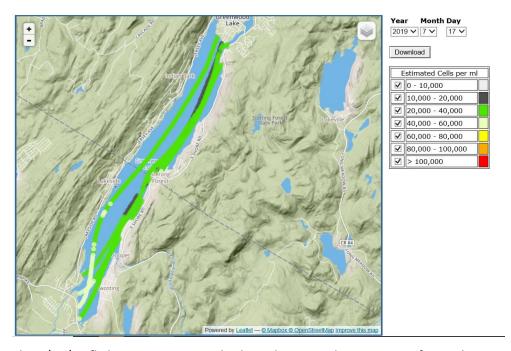
Indicates > than advisory levels

**Cell counts are greater than values shown due to the need for approximations for a newly observed cyanobacterial species

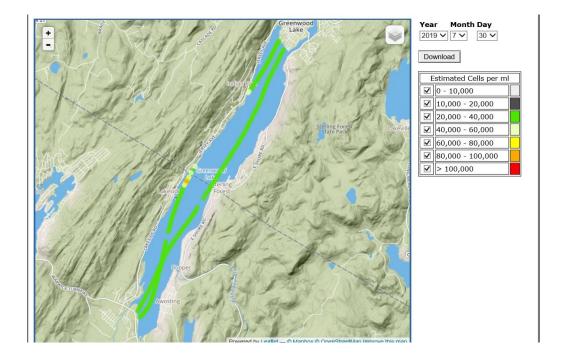


Flight Results

The 7/17/19 flight over Greenwood Lake detected lake wide cyanobacteria distribution, with the highest levels being detected in the New Jersey side of the lake.



The 7/30/19 flight over Greenwood Lake is detecting the presence of cyanobacteria in both NJ and NY waters and the pale-yellow color on the scale suggests cell counts greater than 20,000 cell/ml. This sensor is a general estimate and will be refined by comparison to lab analyzed cell counts.



On 8/9, Greenwood Lake's spatial distribution changed slightly, but there are estimated cell counts greater than 60,000, in one area, and there is still the presence of the bloom lake wide.

