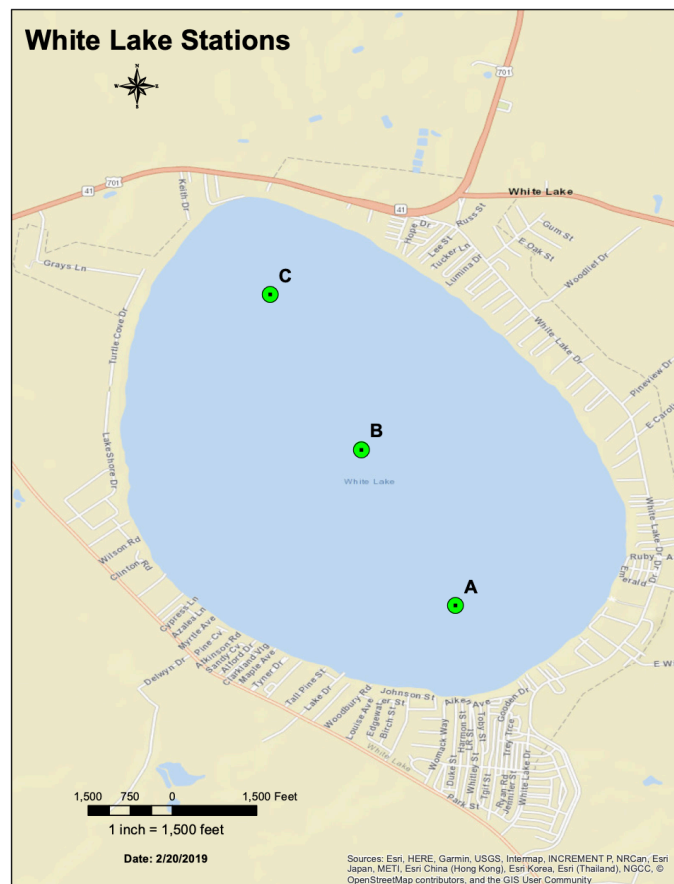


## Report to White Lake Town Board August 2022

As requested, I am providing all the White Lake monitoring data, including lab reports for review. The month of June now has all data analysis completed, so attached you will find the following:

- Map showing sample locations (they are the same sites used by NC DEQ)
- Rainfall and Lake Levels
- Field Data Sheet for June 15, 2022
- Chain of Custody sheet for Analytical Lab samples
- June 15, 2022 Report by IEH, with QA/QC results
- Chain of Custody sheet for Spirogyra Diversified Env. Services (algae samples)
- Algae counts and biovolume results for White Lake samples
- Algae counts and biovolume results for Singletary Lake (an acidic Bay lake) which serves as a reference (and is sampled in February, June and September).



WL-C1, WL-B1, and WL-A1 are taken at 0.5 meters below the lake surface, while WL-C2, WL-B2, and WL-A2 are taken at 2.0 meters depth.

White Lake Monitoring:  
Lake Level, Rainfall, Waterfowl

Month/Year: JUNE 2022

Date	Lake Level (tenths)	Rainfall (inches)	Waterfowl/Sea Gull Estimates
1	63.7		
2			
3		2.0	
4			
5			
6	63.85		
7			
8		1.0	
9		1.25	
10			
11			
12		.5	
13	63.9		
14			
15			
16		1.25	
17			
18			
19			
20			
21			
22	63.8	.2	
23			
24			
25			
26			
27	63.7		
28			
29			
30			
31			

6.2

Lake levels recorded from Goldston's Motel pier gauge; rainfall recorded from Town's WWTP

Notes:





# WHITE LAKE FIELD DATA

29.6 8.1

Date	Time	Station	Depth (m)	T (°C)	DO (mg/L)	% Sat.	Sp. Cond.	pH	Secchi (m)	Chla
6/15/22	10:08	WL-C1	0.5	29.5	8.25	108.3	26.0	6.87	1.25	6
		WL-C2	2.0	29.4	8.35	109.3	25.9	6.87		7
	10:24	WL-B1	0.5	29.6	8.03	105.5	<del>26.3</del> 26.0	6.70	1.25	5
		WL-B2	2.0	29.6	8.03	105.5	<del>26.3</del> 26.0	6.69		6
	10:47	WL-A1	0.5	29.8	8.07	106.3	<del>28.3</del> 25.9	6.88	1.25	6
		WL-A2	2.0	29.7	8.09	106.4	<del>28.2</del> 25.9	6.93		7
										6.2
✓		Singleary	0.5	29.2	6.36	83.4	<del>25.8</del> 24.0	4.26	0.5	10

Weather: wind out of E at 9mph Lake Level: 1.22, 63.8

Notes: Singleary 0.96



IEH Analytical Laboratories  
 3927 Aurora Ave N • Seattle • WA • 98103  
 P: 206-632-2715 F: 206-632-2417

Chain of Custody Form

1233004

Page 1 of 1

**REPORT TO:**  
 Client: Town of White Lake  
 Address: 1879 White Lake Drive  
 White Lake, NC 28337  
 Contact: DANE LAURITSEN  
 Email: dlauritsen@comcast.net  
 Phone:

**INVOICE TO: (IF DIFFERENT FROM REPORT)**  
 Client: Town  
 Address:  
 Contact: Amber GRISSON  
 Email: agri5son@white.lake.nc.org  
 Phone:

**PROJECT INFORMATION**  
 Quote No.:  
 Client PO:  
 Client Project:

**Reporting/Invoicing Format**  
 Fax  Email  Mail

**Sample Disposal**  
 Hold  Dispose  Return

**SAMPLING**  
 Date (mm-dd-yy): 06-15-22  
 Matrix: Lake water

**Turn Around Time (TAT)\***  
 Next Day  2 Business Day  
 3 Business Day  Standard  
 Specific Date: 7/1/22  
 \*Advanced notice required for Rush Analysis

**SAMPLE DESCRIPTION**  
 WL-C  
 WL-C2  
 WL-B1  
 WL-B2  
 WL-A1  
 WL-A2  
 SL-1

Date (mm-dd-yy)	Matrix	Turn Around Time (TAT)*	Number of Containers	Analysis Requested										Containers Received	Temp	Lab ID
				Turbidity	TP	SRP	DOC	TN	Dissol. N	NH3-NH2	Ammonia	chl a				
06-15-22	Lake water	WL-C	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		107057
		WL-C2	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		107058
		WL-B1	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		107059
		WL-B2	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		107060
		WL-A1	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		107061
		WL-A2	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		107062
		SL-1	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		107063

**LAB USE ONLY**  
 Case File Number

**Sample Retention Policy:** Environmental - 90 days; Food & Perishables - 14 days

Sampled By: DANE LAURITSEN Date: 6-15-22 Time:

Received By: DANE LAURITSEN Date: 6-15-22 Time:

Shipped By: [Signature] Date: 6-16-22 Time: 9:30

Received at IAL By: [Signature] Date: 6-16-22 Time: 9:30

Requisitioned to IAL By (Signature): DANE LAURITSEN Date: 6-15-22 Time:

Comments:

TSURPUS 15 15 10A 2024

**IEH ANALYTICAL LABORATORIES**

LABORATORY &amp; CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

PHONE: (206) 632-2715 FAX: (206) 632-2417

<b>CASE FILE NUMBER:</b>	1733094	<b>PAGE 1</b>
<b>REPORT DATE:</b>	07/14/22	
<b>DATE SAMPLED:</b>	06/15/22	<b>DATE RECEIVED:</b> 06/16/22
<b>FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER</b>		
<b>SAMPLES FROM TOWN OF WHITE LAKE</b>		

**CASE NARRATIVE**

Seven water samples were received by the laboratory in good condition and analyzed according to the chain of custody. No difficulties were encountered in the preparation or analysis of these samples. Sample data follows while QA/QC data is contained on subsequent pages.

**SAMPLE DATA**

SAMPLE ID	TOTAL-P (mg/L)	SRP (mg/L)	N03+N02 (mg/L)	TOTAL-N (mg/L)	CHLOR_a (ug/L)	PHAE0_a (ug/L)	DOC (mg/L)
WL-CA	0.028	0.001	<0.010	0.832	3.2	0.9	8.28
WL-C2	0.027	<0.001	<0.010	0.784			7.97
WL-B1	0.027	<0.001	<0.010	0.813	3.2	1.3	7.80
WL-B2	0.028	<0.001	<0.010	0.665			7.80
WL-A1	0.036	<0.001	<0.010	0.726	3.7	0.4	8.17
WL-A2	0.028	<0.001	<0.010	0.647			9.01
SL-1	0.030	0.022	<0.010	0.625	11	24	15.2

SAMPLE ID	TURBIDITY (NTU)	AMMONIA (mg/L)	DISSOLVED NITROGEN (mg/L)
WL-CA	2.8	<0.010	0.418
WL-C2	2.6	<0.010	0.782
WL-B1	2.4	<0.010	0.646
WL-B2	3.0	<0.010	0.544
WL-A1	2.3	<0.010	0.431
WL-A2	2.7	0.010	0.474
SL-1	3.9	0.059	0.624



**IEH ANALYTICAL LABORATORIES**  
**LABORATORY & CONSULTING SERVICES**  
 3927 AURORA AVENUE NORTH, SEATTLE, WA 98103  
 PHONE: (206) 632-2715 FAX: (206) 632-2417

<b>CASE FILE NUMBER:</b>	1733094	<b>PAGE 2</b>
<b>REPORT DATE:</b>	07/14/22	
<b>DATE SAMPLED:</b>	06/15/22	<b>DATE RECEIVED:</b> 06/16/22
<b>FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER</b>		
<b>SAMPLES FROM TOWN OF WHITE LAKE</b>		

**QA/QC DATA**

QC PARAMETER	TOTAL-P (mg/L)	SRP (mg/L)	N03+N02 (mg/L)	TOTAL-N (mg/L)	CHLOR_a (ug/L)	PHAE0_a (ug/L)	DOC (mg/L)
METHOD	SM18 4500PF	SM18 4500PF	SM184500N03F	SM204500NC	SM1810200H	SM1810200H	EPA 415.1
DATE ANALYZED	06/18/22	06/16/22	06/16/22	06/28/22	06/17/22	06/17/22	07/13/22
DETECTION LIMIT	0.002	0.001	0.010	0.050	0.1	0.1	0.250
DUPLICATE							
SAMPLE ID	SL-1	SL-1	BATCH	BATCH	BATCH	BATCH	BATCH
ORIGINAL	0.030	0.022	0.196	0.204	2.7	1.3	12.5
DUPLICATE	0.030	0.024	0.175	0.205	2.7	1.1	12.6
RPD	1.29%	9.74%	11.31%	0.49%	0.00%	19.72%	0.64%
SPIKE SAMPLE							
SAMPLE ID	SL-1	SL-1	BATCH	BATCH			BATCH
ORIGINAL	0.030	0.022	0.196	0.204			12.5
SPIKED SAMPLE	0.083	0.040	0.411	1.17			17.2
SPIKE ADDED	0.050	0.020	0.200	1.00			4.50
% RECOVERY	105.80%	88.94%	107.53%	96.50%	NA	NA	102.89%
QC CHECK							
FOUND	0.094	0.038	0.421	0.529			4.35
TRUE	0.094	0.039	0.408	0.499			4.00
% RECOVERY	100.00%	97.44%	103.31%	106.01%	NA	NA	108.75%
BLANK	<0.002	<0.001	<0.010	<0.050	NA	NA	<0.250

RPD = RELATIVE PERCENT DIFFERENCE.  
 NA = NOT APPLICABLE OR NOT AVAILABLE.  
 NC = NOT CALCULABLE DUE TO ONE OR MORE VALUES BEING BELOW THE DETECTION LIMIT.  
 OR = RECOVERY NOT CALCULABLE DUE TO SPIKE SAMPLE OUT OF RANGE OR SPIKE TOO LOW RELATIVE TO SAMPLE CONCENTRATION.

SUBMITTED BY:

Damien Gadomski, PhD  
 Laboratory Manager





**SPIROGYRA DIVERSIFIED ENVIRONMENTAL SERVICES**  
 Water Resource Management and Analytical Services

2232 Holland Avenue, Burlington, NC 27217  
 Phone [REDACTED] Mobile [REDACTED]

**CHAIN OF CUSTODY RECORD**

COMPANY Town of White Lake JOB NO. 21910  
 STREET ADDRESS 1879 White Lake Drive PROJECT White Lake  
 CITY, STATE, ZIP White Lake, NC 28337  
 CONTACT Diane Lauritsen SAMPLER NAME (PLEASE PRINT) Diane Lauritsen  
 PHONE/E-MAIL dlauritsen@comcast.net SAMPLER SIGNATURE [Signature]

SAMPLE NUMBER (LAB USE ONLY)	DATE	TIME	SAMPLE LOCATION/ID	REQUESTED ANALYSIS	SUBSTRATE	COMPOSITE	GRAB	DEPTH	SECHL DEPTH	PRESERVATIVE	NO. OF CONTAINERS
	6-15-22		WL-C1	Quant / BV			<input checked="" type="checkbox"/>	0.5m	1.25		
			WL-B1	"			<input checked="" type="checkbox"/>	"	"		
			WL-A1	"			<input checked="" type="checkbox"/>	"	"		
			SL-1	"			<input checked="" type="checkbox"/>	0.5			
REMOVED BY: <u>Diane Lauritsen</u> DATE/TIME: <u>6/15/22</u> RECEIVED BY: _____ DATE/TIME: _____ REMOVED BY: _____ DATE/TIME: _____ RECEIVED BY: _____ DATE/TIME: _____ REMARKS: <u>pH @ Singletary 4.2, 85% DO sat.</u> <u>@ White Lake 6.9 100% DO sat.</u>											

The following data is copied from large spreadsheets provided by Spirogyra Diversified Environmental Services. It includes identifications down to the species level when possible and counts of numbers of algal cells per liter of lake water, and biovolume—a determination of the biomass of algae suspended in the water column.

July 2022 results from White Lake indicate that there were a lot of extremely tiny cyanobacterial cells (as there is every month), but these contribute next to nothing to total biovolume. Total mean biovolume was very, very low in June ( $656.7 \text{ mm}^3/\text{m}^3$ ). This suggests that non-living material (particularly what is flushed into the lake and what is stirred up from bottom sediments) contributed more to the change in lake clarity than the algae did.

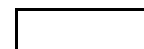
By comparison, the Singletary Lake sample had a number of species that were the same as what was found in White Lake, and the biovolume was substantially higher ( $2,448 \text{ mm}^3/\text{m}^3$ ), while the pH was substantially lower, at 4.3 standard units.



White Lake Algae  
June 15, 2022

WL-C1

Cells/ml	Unit Vol. um <sup>3</sup>	Total Vol. um <sup>3</sup> /mL	Converted Biovol mm <sup>3</sup> /m <sup>3</sup>	Taxon
16,000	0.523333	8374	8.374	Synechococcus sp.
1,920	0.523333	1005	1.005	Chroococcus aphanocapsoides
144	3.709125	535	0.535	Planktolyngbya crassa
56	0.3925	22	0.022	Planktolyngbya limnetica
48	17.48588	840	0.84	Pseudanabaena limnetica
18,168	22.634	10776	10.776	
132	153.0166	20199	20.199	Desmodesmus sp.
32	217.5392	6962	6.962	Pediastrum tetras
4	154.9884	620	0.62	Ankistrodesmus falcatus
16	216	3456	3.456	Tetraedron caudatum
180	150.4562	27083	27.083	Coelastrum proboscideum
16	33.49333	536	0.536	Crucigenia tetrapedia
208	52.9875	11022	11.022	Monoraphidium minutum
216	119.9306	25905	25.905	Selanastrum gracile
88	157.1744	13832	13.832	Oocystis Borgei
352	5.322978	1874	1.874	Eutetramorus planktonica
24	230.2067	5525	5.525	Monoraphidium convolutum
52	278.4569	14480	14.48	Pediastrum biradiatum
52	283.6467	14750	14.75	Quadrigula closteroides
100	150.4562	15046	15.046	Coenochloris hindaki
4	36.63333	147	0.147	Monoraphidium contortum
16	283.6467	4539	4.539	Quadrigula lacustris
4	2495.008	9981	9.981	Sphaerellopsis fluviatilis
4	34.1475	137	0.137	Koliella sp.
112	17.96505	2013	2.013	Dictyosphaerium pulchellum
8	283.6467	2270	2.27	Elakatothrix viridis
64	278.4569	17822	17.822	Pediastrum duplex
12	216	2592	2.592	Tetraedron incus
20	154.9884	3100	3.1	Ankistrodesmus spiralis
68	17.14859	1167	1.167	Coelastrum cambricum
4	71.10496	285	0.285	Tetraedron minimum



32	217.5392	6962	6.962	Pediastrum tetras
52	55.56056	2890	2.89	Scenedesmus acutus
32	217.5392	6962	6.962	Sorastrum americanum
12	3052.08	36625	36.625	Pleodorina californica
4	795.9246	3184	3.184	Golenkinia radiata
1920	10431.07	261966	261.966	
12	574.9983	6900	6.9	Staurodesmus dejectus v. apiculatum
84	630.8892	52995	52.995	Staurodesmus triangularis
92	813.037	74800	74.8	Cosmarium tinctum
32	1552.5	49680	49.68	Gonatozygon brebissoni
4	1049.774	4200	4.2	Closterium acutum
16	512	8192	8.192	Spondylosium pygaeum
4	574.9983	2300	2.3	Staurastrum tetracerum
4	574.9983	2300	2.3	Staurastrum margaritaceum
248	6283.196	201367	201.367	
4	341.745	1367	1.367	Fragilaria sp.
4	1402.917	5612	5.612	Fragilaria capucina
8	1744.662	6979	6.979	
4	1331	5324	5.324	Tetraedriella jovetti
32	1463.238	46824	46.824	Dinobyon acuminatum
4	88.95031	356	0.356	Goniochloris sp.
8	312	2496	2.496	Pseudostaurastrum limneticum
4	935.9817	3744	3.744	Pseudogoniochloris tripus
52	4131.7	58744	58.744	
12	1890.484	22686	22.686	Komma caudata
8	1890.484	15124	15.124	Cryptomonas sp.
8	2159.126	17274	17.274	Cryptomonas platyuris

28	5940.095	55084	55.084	
4	4490.2	17961	17.961	Lepocinclis acuta
8	3865.357	30923	30.923	Euglena sp.
4	904.32	3618	3.618	Trachelomonas varians
4	721.5867	2887	2.887	Phacus agilis
20	9981.464	55389	55.389	
64	319.7567	20465	20.465	Gymnodinium vieraе
8	125.6	1005	1.005	Cystodinium sp.
12	974.8775	11699	11.699	Peridiniopsis sp.
4	79884.68	319539	319.539	Ceratium hirundinella
88	81304.92	352708	352.708	

20,532 119,840 1,003,013 1,003

### WL-B1

Cells/ml	% Total Cells/mL	Unit Vol. um <sup>3</sup>	Total Vol. um <sup>3</sup> /mL	Converted Biovol mm <sup>3</sup> /m <sup>3</sup>	% Total Biovolume	Taxon
12,160	60.2815784	0.5233333	6364	6.364	1.493357	Synechococcus sp.
6,400	31.7271465	0.5233333	3350	3.35	0.786101	Chroococcus aphanocapsoides
80	0.39658933	0.0654167	6	0.006	0.00141	Aphanocapsa delicatissima
364	1.80448146	0.3925	143	0.143	0.03356	Planktolyngbya limnetica
72	0.3569304	3.709125	268	0.268	0.06289	Planktolyngbya crassa
19,076	94.567	5.214	10131	10.131	2.377	
56	0.27761253	153.0166	8569	8.569	2.010775	Desmodesmus sp.
4	0.01982947	154.98844	620	0.62	0.145487	Ankistrodesmus falcatus

128	0.63454293	119.93056	15352	15.352	3.602454	Selanastrum gracile
120	0.594884	150.45624	18055	18.055	4.236731	Coelastrum proboscideum
16	0.07931787	217.5392	3481	3.481	0.816841	Pediastrum tetras
188	0.93198493	52.9875	9962	9.962	2.337653	Monoraphidium minutum
32	0.15863573	278.45694	8911	8.911	2.091028	Pediastrum biradiatum
4	0.01982947	216	864	0.864	0.202744	Tetraedron incus
32	0.15863573	278.45694	8911	8.911	2.091028	Pediastrum duplex
12	0.0594884	230.2067	2763	2.763	0.648357	Monoraphidium convolutum
88	0.43624826	5.3229784	469	0.469	0.110054	Eutetramorus planktonica
32	0.15863573	157.17444	5030	5.03	1.180324	Oocystis Borgei
4	0.01982947	36.633333	147	0.147	0.034495	Monoraphidium contortum
16	0.07931787	17.148587	275	0.275	0.064531	Westella sp.
8	0.03965893	34.1475	274	0.274	0.06430	Koliella sp.
56	0.27761253	150.45624	8426	8.426	1.97722	Coenochloris hindaki
12	0.0594884	283.64667	3404	3.404	0.79877	Quadrigula lacustris
4	0.01982947	283.64667	1135	1.135	0.26634	Elakatothrix viridis
20	0.09914733	283.64667	5673	5.673	1.33121	Quadrigula chodatii
4	0.01982947	71.104956	285	0.285	0.06688	Tetraedron minimum
8	0.03965893	216	1728	1.728	0.40549	Tetraedron caudatum
16	0.07931787	2756.9326	44111	44.111	10.35095	Chlamydomonas angulosa
4	0.01982947	795.92458	3184	3.184	0.74715	Golenkinia radiata
864	4.283	6943.824	151629	151.629	35.581	
24	0.1189768	574.99835	13800	13.8	3.238266	Staurodesmus triangularis
8	0.03965893	574.99835	4600	4.6	1.079422	Staurodesmus dejectus v. apiculatum
36	0.1784652	813.03704	29270	29.27	6.868409	Cosmarium tinctum
8	0.03965893	1552.5	12420	12.42	2.914439	Gonatozygon brebissoni
8	0.03965893	1049.774	8399	8.399	1.970884	Closterium acutum
12	0.0594884	512	6144	6.144	1.44173	Spondylosium pygaeum
96	0.476	5077.307	74633	74.633	17.513	
4	0.01982947	341.74504	1367	1.367	0.320776	Fragilaria sp.
8	0.03965893	2243.7917	17951	17.951	4.21233	Melosira varians
4	0.01982947	487.27778	1950	1.95	0.45758	Fragilaria longifusiformis
4	0.01982947	3664.9688	14660	14.66	3.44007	Urosolenia eriensis



20	0.099	6737.783	35928	35.928	8.431	
4	0.01982947	1331	5324	5.324	1.249314	Tetraedriella jovetti
16	0.07931787	1463.2376	23412	23.412	5.49379	Dinobryon divergens
20	0.099	2794.238	28736	28.736	6.74	
4	0.01982947	54.426667	218	0.218	0.05116	Goniomonas truncata
4	0.01982947	1890.4844	7562	7.562	1.77448	Cryptomonas sp.
8	0.039	1944.911	7780	7.78	1.826	
4	0.01982947	4490.2	17961	17.961	4.214674	Lepocinclis acuta
4	0.01982947	9001.5514	36007	36.007	8.44929	Lepocinclis acus
4	0.01982947	3865.3574	15462	15.462	3.62827	Euglena sp.
12	0.059	17357.109	69430	69.43	16.292	
40	0.19829467	319.75667	12791	12.791	3.001497	Gymnodinium vierae
36	0.1784652	974.8775	35096	35.096	8.23552	Peridiniopsis sp.
76	0.377	1294.634	47887	47.887	11.237	
20,172	100	42,155	426,154	426	100	

### WL-A1

Cells/ml	Unit Vol. um <sup>3</sup>	Total Vol. um <sup>3</sup> /mL	Converted Biovol mm <sup>3</sup> /m <sup>3</sup>	Taxon
----------	------------------------------	-----------------------------------	---	-------

16,960	0.5233333	8876	8.876	Synechococcus sp.
1,600	0.5233333	838	0.838	Cyanoganis ferriginea
56	52.216238	2925	2.925	Cylindrospermopsis raciborskii s
56	0.3925	22	0.022	Planktolyngbya limnetica
72	3.709125	268	0.268	Planktolyngbya crassa
18,744	57.365	12929	12.929	
56	153.0166	8569	8.569	Desmodesmus sp.
16	154.98844	2480	2.48	Ankistrodesmus falcatus
144	150.45624	21666	21.666	Coelastrum proboscideum
268	119.93056	32142	32.142	Selanastrum gracile
252	52.9875	13353	13.353	Monoraphidium minutum
8	36.633333	294	0.294	Monoraphidium contortum
64	278.45694	17822	17.822	Pediastrum duplex
20	216	4320	4.32	Tetraedron incus
80	5.3229784	426	0.426	Eutetramorus planktonica
32	278.45694	8911	8.911	Pediastrum biradiatum
36	157.17444	5659	5.659	Oocystis Borgei
84	17.965052	1510	1.51	Dictyosphaerium pulchellum
216	230.2067	49725	49.725	Monoraphidium convolutum
24	283.64667	6808	6.808	Quadrigiula closteroides
72	150.45624	10833	10.833	Coenochloris hindaki
8	2422.8395	19383	19.383	Chlamydomonas angulosa
4	312	1248	1.248	Tetraedron hastatum v. palatinum
20	154.98844	3100	3.1	Ankistrodesmus spiralis
4	795.92458	3184	3.184	Golenkinia radiata
32	33.493333	1072	1.072	Crucigenia tetrapedia
32	17.148587	549	0.549	Coelastrum cambricum
4	216	864	0.864	Tetraedron caudatum
1476	6238.093	213918	213.918	
24	574.99835	13800	13.8	Staurodesmus dejectus v. apiculatum
4	574.99835	2300	2.3	Staurastrum tetracerum
64	574.99835	36800	36.8	Staurodesmus triangularis
64	813.03704	52035	52.035	Cosmarium tinctum
4	153.86	616	0.616	Closterium acutum
48	512	24576	24.576	Spondylosium pygaeum

208	3203.892	130127	130.127	
24	341.74504	8202	8.202	Fragilaria sp.
4	671.175	2685	2.685	Eunotia incisa
28	1012.92	10887	10.887	
4	1331	5324	5.324	Tetraedriella jovetti
16	1463.2376	23412	23.412	Dinobryon divergens
4	88.950313	356	0.356	Goniochloris sp.
24	2883.188	29092	29.092	
4	3865.3574	15462	15.462	Euglena sp.
4	904.32	3618	3.618	Trachelomonas varians
8	4490.2	35922	35.922	Lepocinclis acuta
4	4558.0153	18233	18.233	Euglena polymorpha
20	13817.893	73235	73.235	
32	319.75667	10233	10.233	Gymnodinium vieraе
4	1197.424	4790	4.79	Gymnodinium wawrikaе
16	2758.5505	44137	44.137	Peridinium sp.
12	974.8775	11699	11.699	Peridiniopsis sp.
64	5250.609	70959	70.859	
20,564	32,464	541,147	541	

Singletary Lake Algae  
June 15, 2022

Cells/ml	Unit Vol. um <sup>3</sup>	Total Vol. um <sup>3</sup> /mL	Converted Biovol mm <sup>3</sup> /m <sup>3</sup>	Taxon
4,480	0.523333	2345	2.345	Synechococcus sp.
84	0.3925	33	0.033	Planktolyngbya limnetica
144	108.6628	15648	15.648	Aphanizomenon sp.
64	17.48588	1120	1.12	Romeria sp.
128	17.48588	2239	2.239	Romeria sp.
40	58.32619	2334	2.334	Cylindrospermopsis raciborskii c
6,400	0.523333	3350	3.35	Cyanoganis ferriginea
11,340	203.399	27069	27.069	
1644	153.0166	251560	251.56	Desmodesmus sp.
208	24.92886	5186	5.186	Dictyosphaerium pulchellum
4	2459.364	9838	9.838	Chlamydomonas angulosa
36	150.4562	5417	5.417	Coelastrum proboscideum
4	216	864	0.864	Tetraedron caudatum
4	52.9875	212	0.212	Monoraphidium minutum
4	795.9246	3184	3.184	Golenkinia radiata
236	3052.08	720291	720.291	Pleodorina californica
4	283.6467	1135	1.135	Elakatothrix viridis
2,144	7188.405	997687	997.687	
28	1049.774	29394	29.394	Closterium acutum
168	982.5502	165069	165.069	Closterium gracile
8	630.8892	5048	5.048	Staurastrum chaetoceras
68	1552.5	105570	105.57	Gonatozygon brebissoni
272	4215.713	305081	305.081	



56	531	29736	29.736	Asterionella formosa	
32	1402.917	44894	44.894	Fragilaria capucina	
12	1186.5	14238	14.238	Nitzschia sp.	
8	341.745	2734	2.734	Fragilaria sp.	
4	234.6428	939	0.939	Melosira italica	
4	671.175	2685	2.685	Eunotia incisa	
116	4367.979	95226	95.226		
4	2289.06	9157	9.157	Mallomonas pseudocoronata	T
4	2289.06	9157	9.157		
4	795.9246	3184	3.184	Chrysochromulina sp.	
4	795.925	3184	3.184		
28	1890.484	52934	52.934	Komma caudata	
56	1890.484	105868	105.868	Cryptomonas sp.	
68	1890.484	128553	128.553	Cryptomonas platyuris	
16	126.5521	2025	2.025	Plagioselmis nannoplanktonica	
8	18396.21	147170	147.17	Cryptomonas reflexa	
176	24190.22	436550	436.55		
8	904.32	7235	7.235	Trachelomonas varians	
4	721.5867	2887	2.887	Phacus agilis	
12	1625.907	10122	10.122		
8	2758.551	22069	22.069	Peridinium sp.	
60	319.7567	19186	19.186	Gymnodinium vieraе	
68	3078.308	41255	41.255		
4	130760.1	523041	523.041	Gonyostomum semen	
4	130760.1	523041	523.041		

14,140	178,715	2,448,372	2,448
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