

Appendix C

2019 Mirror Lake Phytoplankton Data

2019 MIRROR LAKE PHYTOPLANKTON DATA

0-2 METERS

STANDARD INVERTED MICROSCOPE ANALYSIS METHOD

DIVISION	Taxonomic Names	6/11/2019 units/mL	7/15/2019 units/mL	8/6/2019 units/mL	8/19/2019 units/mL	9/9/2019 units/mL
CHLOROPHYTA (GREEN ALGAE)						
	<i>Actinastrum Hantzschii</i>	0	0	0	0	1,093
	<i>Ankistrodesmus falcatus</i>	2,115	2,418	5,659	4,608	1,311
	<i>Chlamydomonas globosa</i>	4,897	18,062	7,545	2,304	5,682
	<i>Chlamydomonas sp.</i>	334	0	0	0	0
	<i>Coelastrum microporum</i> (colonies)	0	142	0	0	219
	<i>Dictyosphaerium</i> <i>Ehrenbergianum</i>	0	0	0	0	219
	<i>Elakatorhrix gelatinosa</i>	111	1,422	377	0	0
	<i>Lagerheimia quadriseta</i>	445	0	0	0	219
	<i>Micractinium pusillum</i>	0	0	0	0	0
	<i>Micractinium sp.</i>	334	0	0	0	0
	<i>Oocystis parva</i>	223	0	0	256	219
	<i>Scenedesmus dimorphus</i>	0	142	0	0	219
	<i>Scenedesmus quadricauda</i>	111	142	189	256	874
	<i>Scenedesmus sp.</i>	334	569	189	768	656
	<i>Schroederia Judayi</i>	0	142	0	0	0
	<i>Monoraphidium minutum</i>	1,781	711	377	512	1,530
	<i>Monoraphidium sp.</i>	0	0	189	256	874
	<i>Tetraedron sp.</i>	0	0	0	0	437
	<i>Staurastrum sp.</i>	0	0	0	0	219
	Total Chlorophyta	10,685	23,751	14,525	8,960	13,768

2019 MIRROR LAKE PHYTOPLANKTON DATA

(Continued)

0-2 METERS

STANDARD INVERTED MICROSCOPE ANALYSIS

METHOD

DIVISION	Taxonomic Names	6/11/2019 units/mL	7/15/2019 units/mL	8/6/2019 units/mL	8/19/2019 units/mL	9/9/2019 units/mL
CHRYSOPHYTA (YELLOW-BROWN ALGAE)	Total Chrysophyta	0	0	0	0	0
CYANOPHYTA (BLUE-GREEN ALGAE)	Aphanizomenon flos-aquae	1,447	142	3,207	5,888	9,834
	Aphanizomenon sp.	48,640	0	0	0	0
	Aphanocapsa sp.	0	0	0	0	874
	Cylindrospermopsis raciborskii	0	2,560	25,277	60,416	52,012
	Dolichospermum affine	0	1,138	189	0	0
	Dolichospermum sp.	0	0	189	1,024	874
	Merismopedia tenuissima	0	427	189	2,560	5,463
	Microcystis aeruginosa	0	0	189	0	656
	Microcystis incerta	445	996	3,018	3,840	12,019
	Microcystis sp.	0	0	0	0	0
	Planktothrix agardhii	1,224	0	0	0	1,093
	Pseudanabaena limnetica	223	92,302	43,574	44,288	25,350
	Pseudanabaena mucicola	0	0	189	0	0
	Total Cyanophyta	51,979	97,564	76,018	118,016	108,175

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(Continued)

0-2 METERS
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METHOD

DIVISION	Taxonomic Names	6/11/2019 units/mL	7/15/2019 units/mL	8/6/2019 units/mL	8/19/2019 units/mL	9/9/2019 units/mL
BACILLARIOPHYTA (DIATOMS)	<i>Fragilaria capucina</i>	0	0	0	0	656
	<i>Navicula</i> sp.	0	284	0	768	0
	<i>Stephanodiscus</i> Hantzschii	334	427	0	512	219
	<i>Stephanodiscus</i> sp.	111	0	0	0	0
	<i>Synedra acus</i>	0	142	0	0	219
	<i>Synedra ulna</i>	111	1,707	1,320	512	656
	Total Bacillariophyta	557	2,560	1,320	1,792	1,748
CRYPTOPHYTA (CRYPTOMONADS)	<i>Cryptomonas erosa</i>	223	1,849	3,961	768	5,682
	Total Cryptophyta	223	1,849	3,961	768	5,682
EUGLENOPHYTA (EUGLENOIDS)	Total Euglenophyta	0	0	0	0	0
PYRROPHYTA (DINOFLAGELLATES)	<i>Peridinium cinctum</i>	0	142	189	512	0
	Total Pyrrophyta	0	142	189	512	0
	Total Phytoplankton	63,443	125,866	96,013	130,048	129,373