

Appendix B.

Phytoplankton Species

East Glacier, West Glacier, and Lost Lakes

R.G. Dufford
Fort Collins, Colorado

The species included in this list were collected from Lost Lake (L) and East Glacier Lake (EG) and West Glacier Lake (WG) and identified by Richard Dufford, Phychologist, in 1988. The collection is maintained by Mr. Dufford in Fort Collins, Colorado. Samples were collected as an integrated sample from a water column at the deepest section of the lake.

Taxon	Presence, 1988
Division Bacillariophyta (diatoms)	
<i>Asterionella formosa</i>	WG, L
<i>Diatoma anceps</i>	WG
<i>Eunotia perpusilla</i>	EG
<i>Fragilaria crotonensis</i>	L
<i>F. pinnata</i>	EG
<i>F. vaucheriae</i>	EG, WG
<i>F. virescens</i>	EG, L
<i>Melosira italica</i>	EG, L
<i>M. lirata</i>	EG, WG
<i>Navicula</i> sp.	L
<i>N. minima</i>	EG, WG
<i>N. pupula</i> var. <i>rectangularis</i>	EG
<i>Neidium affine</i>	EG
<i>Nitzschia</i> spp.	EG, WG
<i>Pinnularia borealis</i>	WG
<i>P. maior</i>	EG
<i>P. mesolepta</i>	EG, WG
<i>Rhizosolenia eriensis</i>	EG, WG, L
<i>R. longiseta</i>	EG
<i>Stauroneis phoenicenteron</i>	WG
<i>Synedra</i> sp.	EG
<i>S. incisa</i>	L
<i>S. radians</i>	WG
<i>S. rumpens</i>	L
<i>Tabellaria fenestrata</i>	EG, L
<i>T. flocculosa</i>	EG, WG, L
Division Chlorophyta (green algae)	
<i>Monoraphidium griffithii</i>	EG, WG, L
<i>Ankistrodesmus falcatus</i> var. <i>falcatus</i>	WG, L
<i>Ankyra judayi</i>	WG, L
<i>Arthrodesmus</i> (<i>Staurodesmus</i>) <i>incus</i>	EG
<i>A. (S.) ralfsii</i>	EG, WG, L
<i>Botryococcus</i> sp.	EG
<i>Chlamydomonas</i> spp.	EG, WG, L
<i>C. angulosa</i>	WG
<i>Chlorella</i> sp.	L
<i>C. ellipsoidea</i>	WG
<i>C. vulgaris</i>	EG, WG, L
<i>Chlorococcum</i> sp.	WG
<i>Chlorogonium</i> sp.	EG, WG, L
<i>Coccomyxa minor</i>	EG, WG, L
<i>Cosmarium</i> sp.	EG
<i>Crucigeniella (Crucigenia) rectangularis</i>	EG
<i>Dictyosphaerium elegans</i>	EG, WG, L

Taxon	Presence, 1988
<i>D. pulchellum</i> var. <i>minutum</i>	EG, WG, L
<i>Elakatothrix viridis</i>	EG, L
<i>Euastrum elegans</i>	EG
<i>Gloeococcus</i> sp.	EG, L
<i>Gloeocystis</i> sp.	L
<i>Gloeotila</i> sp.	EG, WG
<i>Gloeotila contorta</i>	WG, L
<i>Gloeotila pelagica</i>	EG, WG, L
<i>Golenkinia radiata</i>	EG
<i>Gonium</i> sp.	WG, L
<i>Haematococcus lacustris</i>	WG
<i>Lagerheimia (Chodatella) genevensis</i>	WG
<i>Mesotaenium</i> sp.	EG, WG
<i>Micractinium pusillum</i>	WG
<i>Microspora</i> sp.	L
<i>Mougeotia</i> sp.	L
<i>Nephrocystium agardhianum</i>	EG
<i>Oocystis</i> sp.	EG, L
<i>O. pusilla</i>	EG
<i>Quadrigula</i> sp.	WG
<i>Scenedesmus</i> sp.	L
<i>S. eornis</i>	EG
<i>S. quadricauda</i>	WG
<i>S. serratus</i>	WG, L
<i>Spondylosium planum</i>	EG, WG, L
<i>Staurostrum</i> sp.	L
<i>S. paradoxum</i>	L
<i>Teilingia</i> sp.	EG, L
<i>Tetraedron minimum</i>	EG
<i>Tetraspora lacustris</i>	L
<i>Tetrastrum elegans</i>	WG
<i>Ulothrix</i> sp.	WG
<i>Xanthidium</i> sp.	EG
<i>Zygnemopsis</i> sp.	L
Division Chrysophyta (golden-brown algae)	
<i>Bicosoeca</i> sp.	L
<i>Chromulina</i> sp.	WG
<i>Chrysocapsa planctonica</i>	EG
<i>Chrysococcus biporus</i>	EG, WG, L
<i>Chrysococcus rufescens</i>	EG, WG
<i>Chrysolykos skujae</i>	EG, WG, L
<i>Crysolykos planctonicus</i>	EG, WG, L
<i>Bitrichia (Diceras) phaseolus</i>	EG, L
<i>Dinobryon bavaricum</i>	EG, WG, L
<i>D. borgei</i>	EG, WG, L
<i>D. cylindricum</i>	L
<i>D. divergens</i>	WG
<i>D. sociale</i> var. <i>americanum</i>	L
<i>D. sertularia</i>	WG
<i>Kephyrion</i> sp.	EG, L
<i>K. boreale</i>	EG, WG, L
<i>K. cupuliforme</i>	EG, WG
<i>Mallomonas</i> sp.	EG, WG, L
<i>M. tonsurata</i>	EG

Taxon	Presence, 1988
<i>Ochromonas</i> sp.	EG, WG
<i>Pseudokephyrion entzii</i>	EG, WG
<i>Tribonema minus</i>	WG
Division Cryptophyta (cryptophytes)	
<i>Cryptomonas</i> sp.	EG, WG
<i>C. rostratiformis</i>	L
<i>C. marsonii</i>	WG
<i>Rhodomonas minuta</i>	EG, WG
Division Cyanophyta (blue-green algae)	
<i>Anabaena</i> sp.	WG, L
<i>A. affinis</i>	WG
<i>A. inaequalis</i>	WG
<i>A. wisconsinense</i>	L
<i>Aphanocapsa delicatissima</i>	EG, L
<i>A. elachista</i>	EG, WG
<i>A. elachista</i> var. <i>conferta</i>	EG, WG, L
<i>Aphanothece</i> sp.	WG
<i>A. nidulans</i>	EG, WG
<i>A. saxicola</i>	EG, WG, L
<i>Chroococcus dispersus</i>	EG, WG, L
<i>C. dispersus</i> var. <i>minor</i>	EG, WG
<i>C. limeticus</i>	EG
<i>C. minor</i>	EG
<i>Dactylococcopsis</i> sp.	WG
<i>D. acicularis</i>	EG, WG, L
<i>D. fascicularis</i>	EG, WG, L
<i>D. irregularis</i>	WG, L
<i>Leptolyngbya</i> (<i>lyngbya</i>) <i>nana</i>	WG
<i>Microcystis incerta</i>	EG
<i>Oscillatoria</i> sp.	EG
<i>O. angusta</i>	EG, WG
<i>O. angustissima</i>	WG
<i>O. limnetica</i>	EG, WG, L
<i>Phormidium</i> sp.	EG
<i>Planktolyngbya subtilis</i> (<i>Lyngbya limnetica</i>)	WG
<i>Pseudanabaena</i> sp.	EG
<i>Rhabdoderma</i> sp.	EG
<i>R. irregulare</i>	EG, WG
<i>R. sigmoidea</i>	EG, WG
<i>R. sigmoidea</i> f. <i>minor</i>	WG
<i>Rhabdogloea ellipsoidea</i>	WG
<i>Synechococcus lineare</i>	EG
Division Euglenophyta (euglenoids)	
<i>Euglena</i> sp.	WG, L
<i>E. gracilis</i>	WG
Division Pyrrophyta (dinoflagellates)	
<i>Peridinium cinctum</i>	EG, L
<i>P. inconspicuum</i>	EG, WG, L
<i>P. pusillum</i>	EG, WG, L
<i>P. willei</i>	EG, WG, L