Table S1. Phytoplankton species list.

SA	NT	ST
Microcystis sp.	*Cryptomonas ovata*	*Denticula kuetzingii*
Chroococcus sp.	*Cyclotella meneghiniana*	*Cocconeis placentula* var. *lineata*
Aphanocapsa sp.	*Strombomonas acus*	*Achnanthes exigua*
Merismopedia sp.	*Strombomonas rotunda*	*Cymbella* sp.
Rhabdogloea sp.	*Nitzschia palea*	*Amphora ovalis*
Dactylococcopsis sp.	*Euglena viridis*	*Navicula exigua*
Gomphosphaeria sp.	*Melosira granulata*	*Fragiaria construens*
Woronichinia sp.	*Nitzschia acuta*	*Cyclotella meneghiniana*
Lyngbya sp.	*Cryptomonas erosa*	*Melosira ambigua*
Hydrocoleum sp.	Melosira granulata var. angustissima	*Pteromonas angulosa*
Planktothrix sp.	*Pediastrum duplex* var. *reticulatum*	*Cryptomonas erosa*
Oscillatoria sp.	*Ankistrodesmus acicularis*	*Fragilaria brevistriate*
Spirulina sp.	*Synedra acus*	*Limnothrix planctonica*
Gloeotrichia sp.	*Actinastrum fluviatile*	*Aphanothece clathrata*
Limnothrix sp.	*Chlamydomonas globosa*	*Chroococcus minutus*
Leptolyngbya sp.	*Scenedesmus bicaudatus*	*Microcystis flos-aquae*
Pseudoanabaena sp.	*Chlorella vulgaris*	*Scenedesmus bijuga*
Dolichospermum sp.	*Navicula cincta*	*Chlamydomonas globosa*
Melosira sp.	*Synedra ulna*	*Monoraphidium contortum*
Melosira granulata	*Closterium gracile*	*Scenedesmus quadricauda*
Melosira varians	*Scenedesmus quadricauda*	*Nitzschia palea*
Chaetoceros sp.	*Oscillatoria fraca*	*Synedra acus*
Coscinodiscus sp.	*Lepocinclis ovum*	*Melosira granulata*
Cyclotella sp.	*Oocystis borgei*	*Pinnularia molaris*
Attheya sp.	*Nitzschia sinuata*	*Anabaena flos-aquae*
Tabellaria sp.	*Pseudanabaena limnetica*	*Nitzschia angustata*
Diatoma sp.	*Navicula rhynchocephala*	*Chrysococcus rufescens*
Meridion sp.	*Nitzschia acicularis*	*Monoraphidium irregulare*
Ceratoneis sp.	*Pandorina morum*	*Kephyrion planctonicum*
Fragilaria sp.	*Thorakomonas sabulosa*	*Dictyosphaerium reniforme*
Synedra sp.	*Scenedesmus bijuga*	*Cymatopleura solea*
Synedra ulna	*Chroomonas acuta*	*Navicula cryptocephala*
Asterionella sp.	*Raphidiopsis curvata*	*Nitzschia denticula*
Asterionella glacialis	*Quadricoccus alternans*	*Cymbella cistula*
Mastogloia sp.	*Scenedesmus spinosus*	*Navicula capitata*
Frustulia sp.	*Tetrastrum multiasetum*	*Nitzschia amphibia*
Gyrosigma sp.	*Nitzschia closterium*	*Mougeotia quadrangulata*
Caloneis sp.	Chlamydomonas sp.	*Cymbella ventricosa*
Diploneis sp.	*Anabaena flos-aquae*	*Achnanthes minutissima*
Stauroneis sp.	*Chroococcus minutus*	*Navicula radiosa*
Navicula sp.	*Microcystis flos-aquae*	*Navicula minuscula*
Pinnularia sp.	*Kirchneriella lunaris*	*Surirella ovalis*
Amphiprora sp.	*Kirchneriella obesa*	*Navicula minima*
Amphora sp.	*Tetrastrum staurogeniaeforme*	*Pseudanabaena limnetica*
Cymbella sp.	*Ankistrodesmus falcatus*	*Pinnularia undulata*

Didymosphenia geminata	*Monoraphidium contortum*	*Stauroneis anceps*
Gomphonema sp.	*Kirchneriella contorta*	*Dactylococcopsis rhaphiioides*
Achnanthes sp.	*Dactylococcopsis rhaphiioides*	*Eunotia arcus*
Rhoicosphenia curvata	*Lagerheimiella subsalsa*	*Cymbella turgida*
Cocconeis sp.	*Tetraedron pusillum*	*Nitzschia sigma*
Epithemia sp.	*Tetraedron trigonum*	*Cymbella ehrenbergii*
Rhopalodia sp.	*Merismopedia tenuissima*	*Nitzschia acicularis*
Rhopalodia gibba	*Nitzschia paradoxa*	*Peridiniopsis niei*
Hantzschia sp.	*Surirella ovata*	*Dinobryon cylindricum*
Nitzschia sp.	*Achnanthes exigua*	*Ankistrodesmus acicularis*
Nitzschia paradoxa	*Gyrosigma attenuatum*	*Nitzschia obtusa*
Surirella sp.	*Amphiprora alata*	*Ankistrodesmus angustus*
Surirella capronii	*Diploneis oblongella*	*Pseudanabaena minima*
Cymatopleura solea	*Navicula exigua*	*Gyrosigma kuetzingii*
Cymatopleura elliptica	*Navicula minima*	*Cymatopleura elliptica*
Chlamydomonas sp.	*Oscillatoria subbrevis*	*Chroomonas caudata*
Phacotus sp.	*Navicula capitata*	Pediastrum simplex var. sturmii
Pyramimonas sp.	*Oscillatoria chlorina*	*Merismopedia sinica*
Pteromonas sp.	*Phacus platyaulax*	*Crucigenia tetrapedia*
Gonium sp.	*Golenkinia radiata*	*Ankistrodesmus falcatus*
Eudorina elegans	*Dictyosphaerium pulchellum*	*Stauroneis palustris*
Pandorina morum	*Tetraedron caudatum*	*Merismopedia tenuissima*
Asterococcus sp.	*Diatoma hiemale*	*Oscillatoria fraca*
Tetraspora sp.	*Nitzschia panduriformis*	*Gymnodinium aeruginosum*
Elakatothrix gelatinosa	*Surirella ovata* var. *salina*	*Tetrastrum punctatum*
Micractinium sp.	*Amphora ovalis*	*Dinobryon divergens*
Golenkinia sp.	*Diploneis finica*	*Tetraedron pusillum*
Characium sp.	*Navicula ammophila* var. *minuta*	*Oocystis lacustris*
Schroederia sp.	*Pseudanabaena catenata*	*Gymnodinium mitratum*
Chodatella sp.	*Monoraphidium griffithii*	*Scenedesmus acuminatus*
Chodatella quadriseta	*Cymbella hybrida*	*Ceratium hirundinella*
Franceia ovalis	*Gyrosigma scalproides*	*Aphanocapsa delicatissima*
Tetraëdron caudatum	Navicula protracta var. elliptica	*Achnanthes linearis*
Tetraëdron trilobulatum	*Diatoma moniliforme*	*Mastogloia smithii*
Tetraëdron minimum	*Stephanodicus minutulus*	*Scenedesmus bicaudatus*
Tetraëdron trigonum	*Anabaenopsis arnoldii*	*Merismopedia punctata*
Ankistrodesmus sp.	*Aphanocapsa delicatissima*	*Monoraphidium mirabile*
Selenastrum sp.	*Treubaria crassispina*	*Diploneis ovalis*
Kirchneriella sp.	*Monoraphidium circinale*	*Navicula simplex*
Treubaria crassispina	*Schroedria setigera*	*Scenedesmus ankistrodesmoides*
Sphaercystis sp.	*Schroedria spiralis*	Chlorella vulgris
Oocystis sp.	*Coelastrum microporum*	*Chroomonas acuta*
Nephrocytium sp.	*Crucigenia quadrata*	*Spirogyra catanaeformis*
Dictyosphaerium sp.	*Scenedesmus acuminatus*	*Oocystis parva*
Pediastrum sp.	*Peridiniopsis elpatiewskyi*	*Peridiniopsis cunningtonii*

Pediastrum simplex var. *duodenarium*	*Merismopedia minima*	*Cyclotella stelligera*
Pediastrum duplex	*Chroococcus minor*	*Limnothrix redekei*
Pediastrum boryanum	*Oocystis lacustris*	*Closterium kuetzingii*
Pediastrum tetras	*Oocystis parva*	*Oocystis borgei*
Scenedesmus sp.	*Rhoicosphenia curvata*	*Rhopalodia gibba*
Scenedesmus bijugus	*Fragilaria brevistriate*	*Stauroneis phoenicenteron*
Scenedesmus bicaudatus	*Pseudanabaena mucicola*	*Chroococcus turgidus*
Scenedesmus quadricauda	*Anabaena eucompaeta*	*Trachelomonas volvocina*
Scenedesmus dimorphus	*Phacus agilis*	*Cocconeis placentula*
Scenedesmus arcuatus	*Trachelomonas volvocina*	*Chlamydomonas microsphaerella*
Scenedesmus acuminatus	*Gloeoactiniuum limneticum*	*Leptolyngbya valderiana*
Scenedesmus obliquus	*Monoraphidium caribeum*	*Epithemia sorex*
Tetrastrum sp.	*Crucigenia apiculata*	*Leptolyngbya valderiana*
Tetrastrum staurogeniaeforme	*Tetrastrum glabrum*	*Ceratium furcoides*
Crucigenia sp.	*Scenedesmus denticulatus*	*Scendesmus ecornis*
Crucigenia apiculata	Cocconeis placentula var. lineata	*Merismopedia minima*
Crucigenia tetrapedia	*Chroococcus limneticus*	*Fragilaria pinnata*
Crucigenia quadrata	*Phacus bacilliformis*	*Cymbella parva*
Actinastrum sp.	*Trachelomonas spinulosa*	*Crucigenia rectangularis*
Coelastrum sp.	*Treubaria triappendiculata*	*Oedogonium pusillum*
Coelastrum reticulatum	Tetraedron caudatum var. longispinum	*Asterionella formosa*
Closterium sp.	*Merismopedia sinica*	*Oscillatoria animalis*
Closterium gracile	*Tetraedron regulare* var. *incus*	*Gomphonema intricatum*
Cosmarium sp.	*Coelastrum sphaericum*	*Pseudanabaena catenata*
Staurastrum sp.	*Crucigenia divergens*	*Synedra ulna*
Euastrum sp.	*Scenedesmus cavinatus*	*Scendesmus wuhanensis*
Spondylosium sp.	*Dysmorphococcus variabilis*	*Cymbella cuspidata*
Gonatozygon sp.	*Phacus pyrum*	*Peridinium gatunense*
Ulothrix sp.	*Phacus stokesii*	*Snowella lacustris*
Klebsormidium sp.	*Euglena pisciformis*	*Pediastrum duplex*
Geminella sp.	*Nephrocytium agardhianum*	*Scenedesmus aldavei*
Planctonema sp.	*Chlorococcum humicola*	
Zygnema sp.	*Tetrastrum punctatum*	
Spirogyra sp.	*Gloeocystis ampla*	
Mougeotia sp.	*Oocystis solitaria*	
Cladophora sp.	*Pediastrum tetras*	
Oedogonium sp.	*Scenedesmus protuberans*	
Botryococcus braunii	*Pinnularis viridis*	
Chroomonas sp.	*Snowella lacustris*	
Chroomonas acuta	*Gloeocystis vesiculosa*	
Cryptomonas sp.	*Westella botryoides*	
Cryptomonas ovata		
Euglena sp.		
Euglena acus		
Phacus sp.		
Phacus agilis		

Trachelomonas sp.
Peridinium sp.
Gymnodinium sp.
Ceratium sp.
Dinobryon sp.
Kephyrion sp.
Chrysococcus sp.
Synura sp.
Mallomonas sp.
Chrysochromulina parva