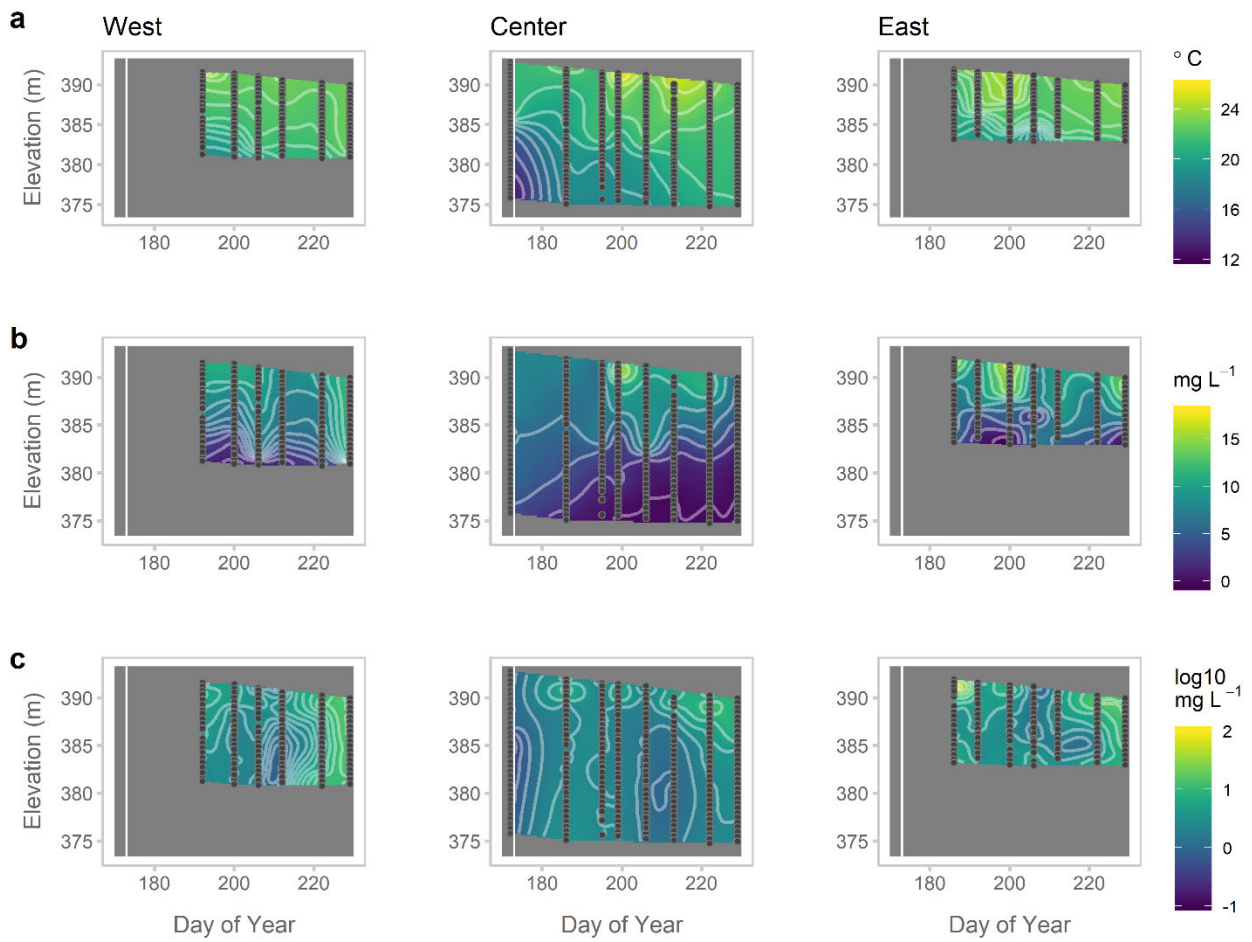


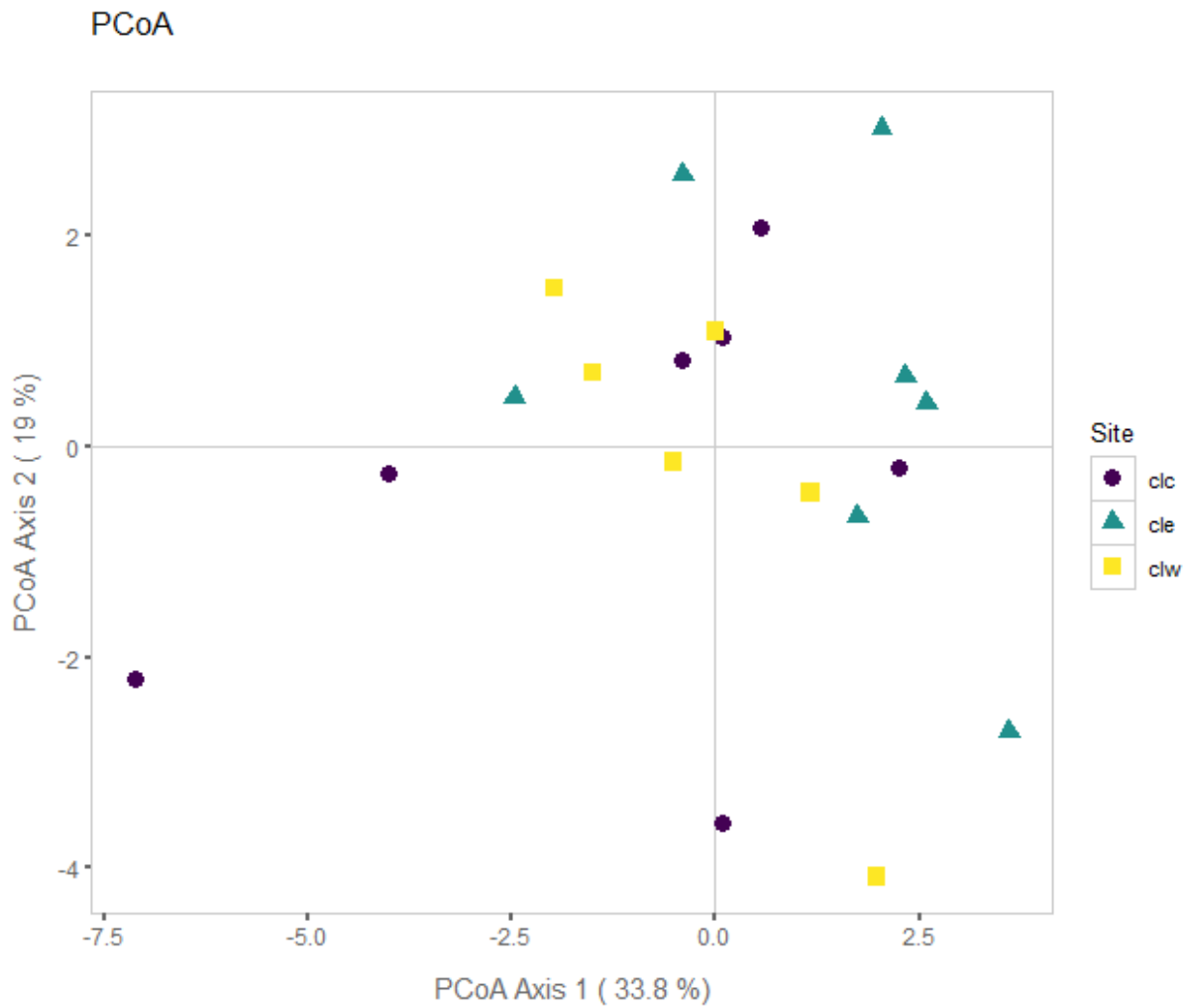
1 **Supplementary Figures and Tables**

2 **Figure S1.** (a) Temperature ($^{\circ}\text{C}$), (b) dissolved oxygen (mg/L), and (c) chlorophyll-a profiles
3 collected at 0.5m increments in the west (*left*), center (*middle*), and east (*right*) sampling
4 locations throughout summer 2017. Profile depths at each site were standardized to the dam
5 stage elevation (m) at the time of sampling and illustrate both the differences in bottom depth
6 and reservoir drawdown during the sampling campaign.



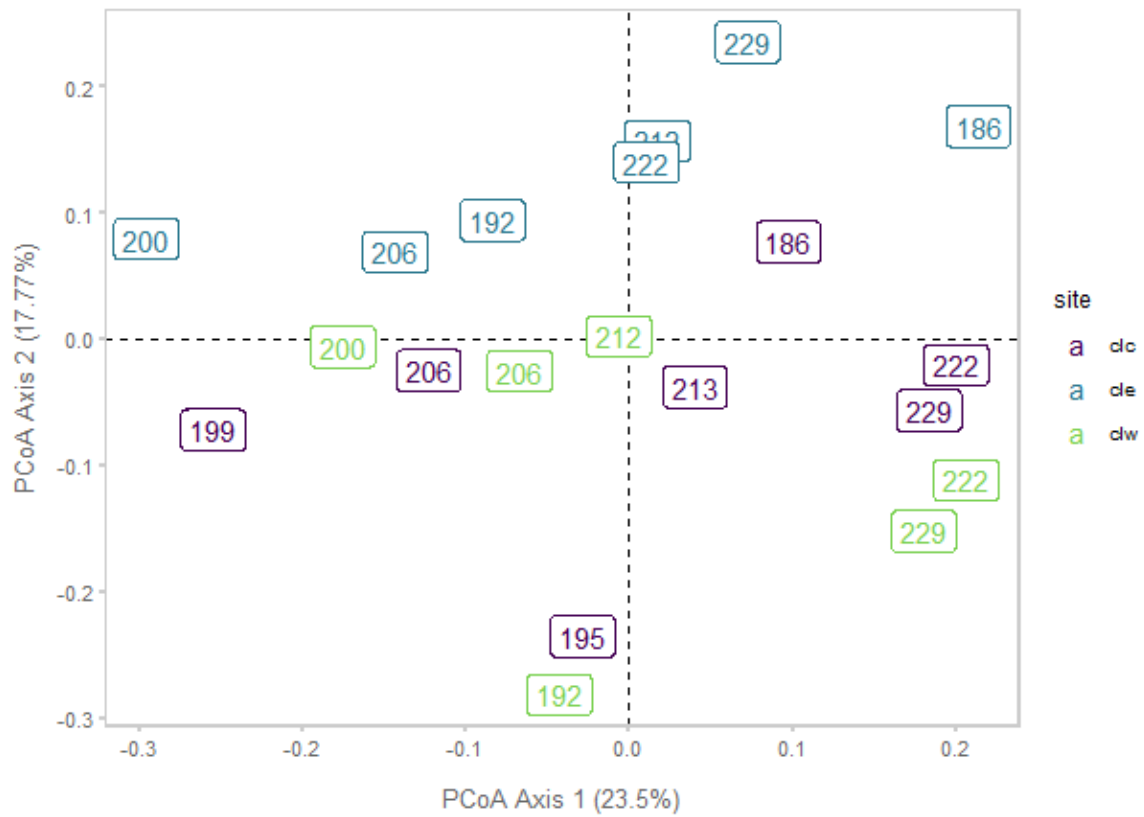
7

8 **Figure S2.** Principle coordinates analysis of epilimnetic (0-2 m) chemical (TDN, NO₃-N, DOC,
9 SRP, TDP, TP, SO₄²⁻, Mn, Ca²⁺, K⁺, Na⁺, Mg²⁺, F⁻, Cl⁻) and physical (surface temperature,
10 dissolved oxygen, residence time) properties by site (West [clw], Center [clc], East [cle]) using
11 Euclidean distances.

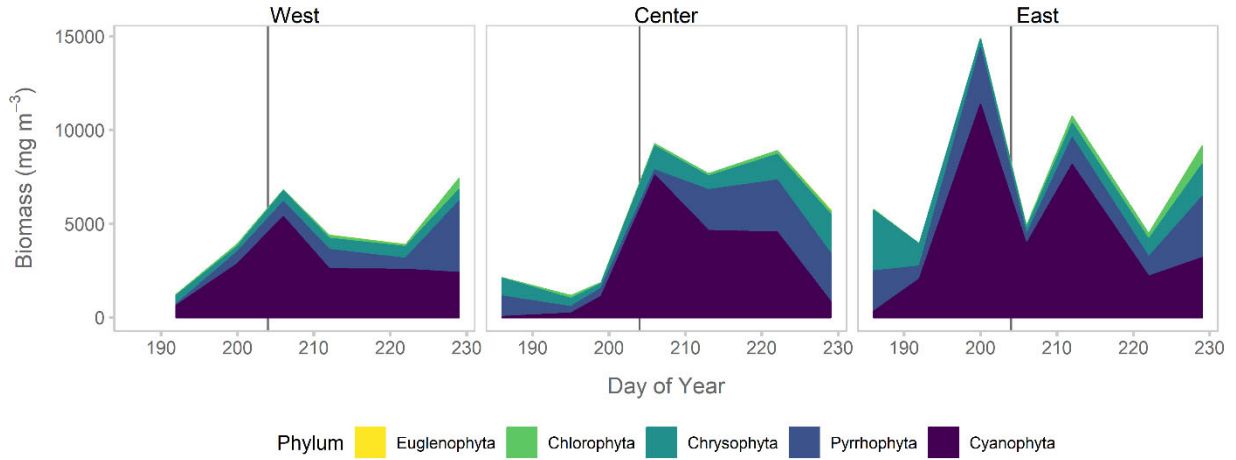


12

13 **Figure S3.** Principle coordinates analysis of phytoplankton communities using Bray-Curtis
14 dissimilarity at the three sampling (green: West [clw], purple: Center [clc], blue: East [cle])
15 locations throughout the campaign. Each label corresponds to the day of year the sample was
16 collected on.



17 **Figure S4.** Phytoplankton community biomass by phylum in the west, center, and east sampling
18 locations over the 2017 sampling campaign.



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22 **Table S1** Water chemistry instruments, detection limits, and analytes used in this study.

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Analyte	Abbr.	Unit	Instrument	Detection Limit
Soluble Reactive Phosphorus	SRP	µg-P/L	Cary 100 UV-Vis spectrophotometer	0.5 µg-P/L
Total Dissolved Phosphorus	TDP	µg-P/L	Cary 100 UV-Vis spectrophotometer	0.5 µg-P/L
Total Phosphorus	TP	µg-P/L	Cary 100 UV-Vis spectrophotometer	0.5 µg-P/L
Ammonium	NH ₄ -N	mg-N/L	Westco Smartchem Analyzer	0.02 mg-N/L
Dissolved Organic Carbon	DOC	mg/L	Shimadzu TOC-L analyzer	0.05 mg/L
Total Dissolved Nitrogen	TDN	mg-N/L	Shimadzu TN-L analyzer	0.02 mg-N/L
anions (NO ₃ -N, Cl ⁻ , F ⁻ , SO ₄ ⁻)		mg/L	Dionex Ion Chromatogram ICS-200	NO ₃ -N: 0.02 mg-N/L Others: 0.1 mg/L
Cations (Fe, Mg ²⁺ , Mn ⁺ , Ca ²⁺ , K ⁺)		mg/L	Perkin Elmer Optima 8000 ICP-OES	0.1 mg/L

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25 **Table S2** Cyanobacterial metabolite standards used in this study.

Compound	Abbreviation	Manufacturer	Catalogue Number
Anatoxin-a	ATX	Enzo Life Science	BML-C118-0001
Homoanatoxin-a	HATX	Abraxis	142926-86-1
Cylindrospermopsin	CYN	Enzo Life Science	ALX-350-149-C025
Microcystin-LR	MC-LR	Enzo Life Science	ALX-350-012-C100
[D-Asp3]Microcystin-LR	[Asp3] MC-LR	Enzo Life Science	ALX-350-173-C025
[Asp3Dha7]-Microcystin-LR	[Asp3Dha7]-MC-LR	NRC	134842-07-2
Microcystin-RR	MC-RR	Enzo Life Science	ALX-350-043-C050
Microcystin-YR	MC-YR	Enzo Life Science	ALX-350-044-C025
[D-Asp3]Microcystin-RR	[Asp3] MC-RR	Enzo Life Science	ALX-350-168-C025
Microcystin-LA	MC-LA	Enzo Life Science	ALX-350-096-C025
Microcystin-LY	MC-LY	Enzo Life Science	ALX-350-148-C025
Microcystin-LW	MC-LW	Enzo Life Science	ALX-350-080-C025
Microcystin-LF	MC-LF	Enzo Life Science	ALX-350-081-C025
Microcystin-WR	MC-WR	Enzo Life Science	ALX-350-167-C025
Microcystin-HtyR	MC-HtyR	Enzo Life Science	ALX-350-174-C025
Microcystin-HilR	MC-HilR	Enzo Life Science	ALX-350-177-C025
Cyanopeptolin A	CAP	Cyano Biotech GmbH	ALX-350-149-C025
Anabaenopeptin A	AP.A	Enzo Life Science	ALX-350-183-C100

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