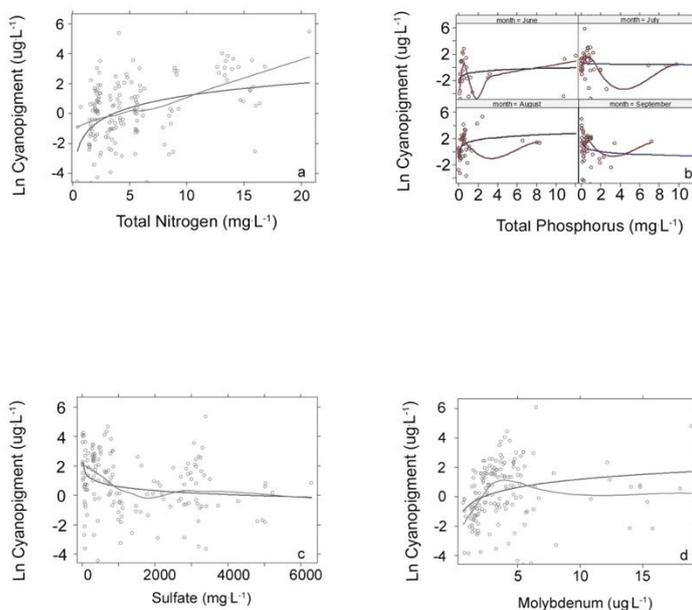**Additional Materials**

Figure S1 Partial effects for model 1, with residuals, showing significant relationships between ln cyanopigment and (a) total nitrogen, (b) total phosphorus by month, (c) sulfate and (d) molybdenum. The model analyzed 165 samples from 25 shallow prairie lakes sampled in 2016. The two lakes with the highest sulfate and lake with the highest molybdenum were removed. Observations where cyanopigment were below detection limits were not included.
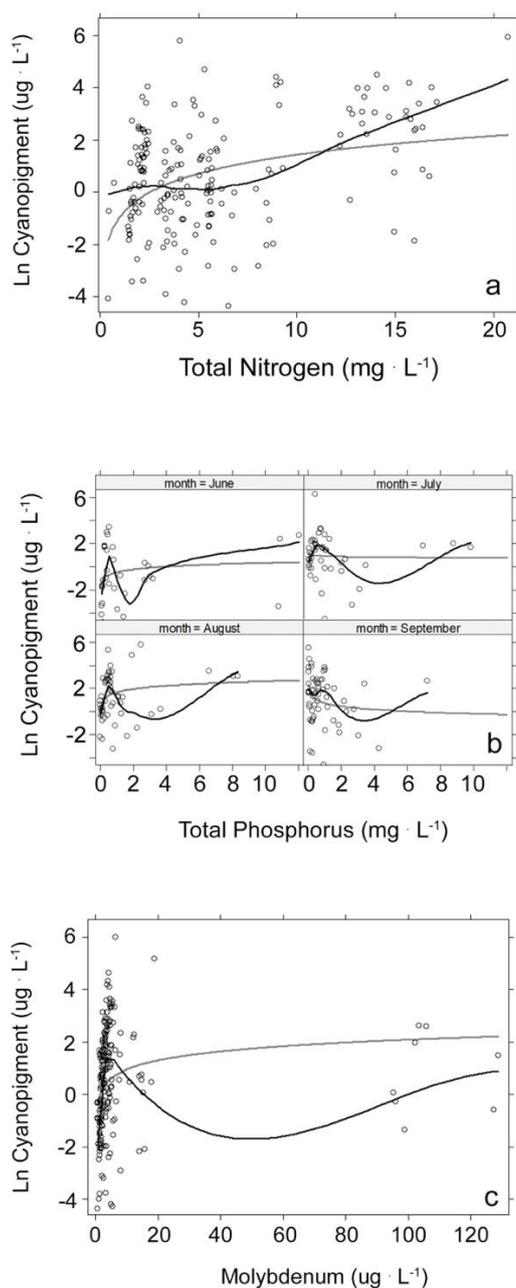
Figure S2 Partial effects for model 2, with residuals, showing significant relationships between ln cyanopigment and (a) total nitrogen, (b) total phosphorus by month and (c) molybdenum. The model analyzed 186 samples from 25 shallow prairie lakes sampled in 2016. Observations where cyanopigment was below detection limits were not included.