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Dean Hintzman
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November 1st, 2018

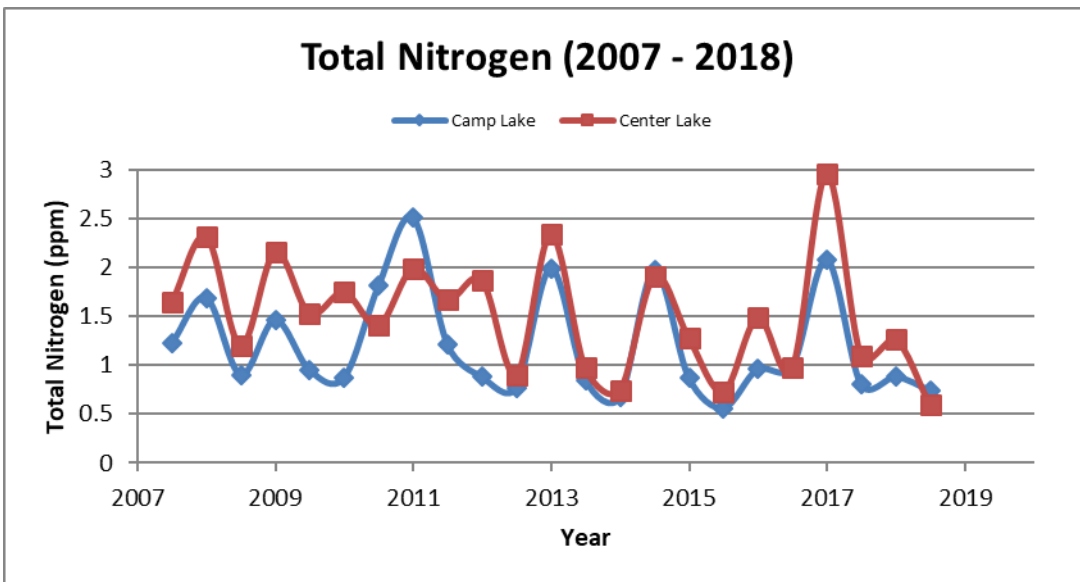
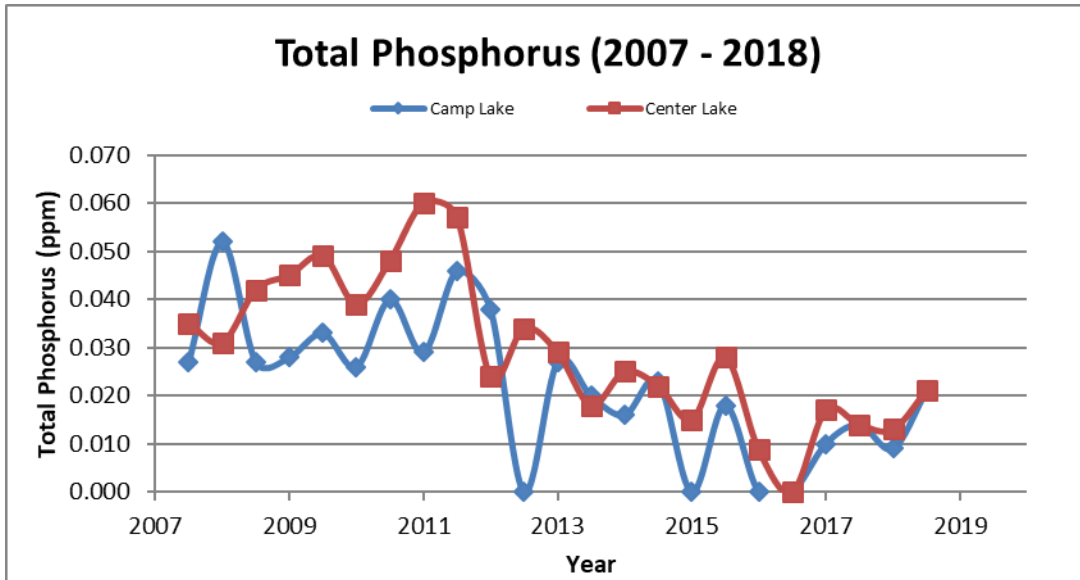
Dear Mr. Hintzman,

The attached laboratory results reflect data from our FALL sampling efforts on Camp and Center Lakes.

The following parameters were analyzed: pH, Conductivity, Alkalinity, Total Hardness, Calcium Hardness, Reactive Phosphorus, Total Phosphorus, Ammonia, NO₂+NO₃, Total Kjeldahl Nitrogen, Chloride, Sulfate, Sodium, Potassium, Turbidity and Color. Since we've previously sent out detailed reports, I've only interpreted each component and commented where appropriate.

<u>ANALYSIS</u>	<u>CAMP</u>	<u>CENTER</u>
pH	NORMAL	NORMAL
Conductivity	NORMAL	NORMAL
Alkalinity	NORMAL	NORMAL
Total Hardness	VERY HARD	VERY HARD
Calcium Hardness	NORMAL	NORMAL
Reactive Phosphorus	NORMAL	NORMAL
Total Phosphorus	NORMAL	NORMAL
Ammonia Nitrogen (NH ₃)	NORMAL	NORMAL
Nitrite plus Nitrate Nitrogen (NO ₂ +NO ₃)	LOW (Good)	LOW (Good)
Total Kjeldahl Nitrogen (TKN)	NORMAL	NORMAL
Chloride (Cl)	NORMAL	NORMAL
Sulfate (SO ₄)	NORMAL	NORMAL
Sodium (Na)	NORMAL	NORMAL
Potassium (K)	NORMAL	NORMAL
Turbidity	LOW (Good)	LOW (Good)
Color	NORMAL	NORMAL

Overall, the water quality in the lake remained mostly unchanged although we did observe increases in total and reactive phosphorus. I'm not too surprised with the findings considering the large rain and runoff events this summer. We'll continue to monitor these components next spring. Below I've included graphs showing total phosphorus and nitrogen since 2007.



If you have any questions or concerns don't hesitate to contact me.

Sincerely,

Jeff Stelzer – Biologist
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