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Dean Hintzman
415 Foxdale Lane
Arlington Heights, IL 60004

June 20th, 2013

Dear Mr. Hintzman,

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

The following parameters were analyzed: pH, Conductivity, Alkalinity, Total Hardness, Calcium Hardness, Reactive Phosphorus, Total Phosphorus, Ammonium, 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	ELEVATED	ELEVATED
Alkalinity	NORMAL	NORMAL
Total Hardness	VERY HARD	VERY HARD
Calcium Hardness	NORMAL	NORMAL
Reactive Phosphorus	LOW (Good)	LOW (Good)
Total Phosphorus	LOW (Good)	LOW (Good)
Ammonia Nitrogen (NH ₃)	NORMAL	NORMAL
Nitrite plus Nitrate Nitrogen (NO ₂ +NO ₃)	ELEVATED	ELEVATED
Total Kjeldahl Nitrogen (TKN)	NORMAL	LOW (Good)
Chloride (Cl)	NORMAL	NORMAL
Sulfate (SO ₄)	NORMAL	NORMAL
Sodium (Na)	NORMAL	NORMAL
Potassium (K)	NORMAL	NORMAL
Turbidity	NORMAL	NORMAL
Color	NORMAL	NORMAL

Overall, the water quality in both lakes looks good. Nitrite plus nitrate nitrogen when up pretty significantly this period possibly from the large amount of precipitation (runoff). This may shed a little light on why we saw an increase in blue-green algae this year as excess nitrogen can lead to excessive growth. Nitrogen aside, there are no other real concerns at this time. If you have any questions or concerns don't hesitate to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Jeff Stelzer". The signature is written in a cursive, somewhat stylized font.

Jeff Stelzer – Biologist
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