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Camp and Center Lake Rehabilitation District  
Attn: Tom Strachan  
9508 271<sup>st</sup> Ave.  
Trevor, WI 53179

November 19<sup>th</sup>, 2019

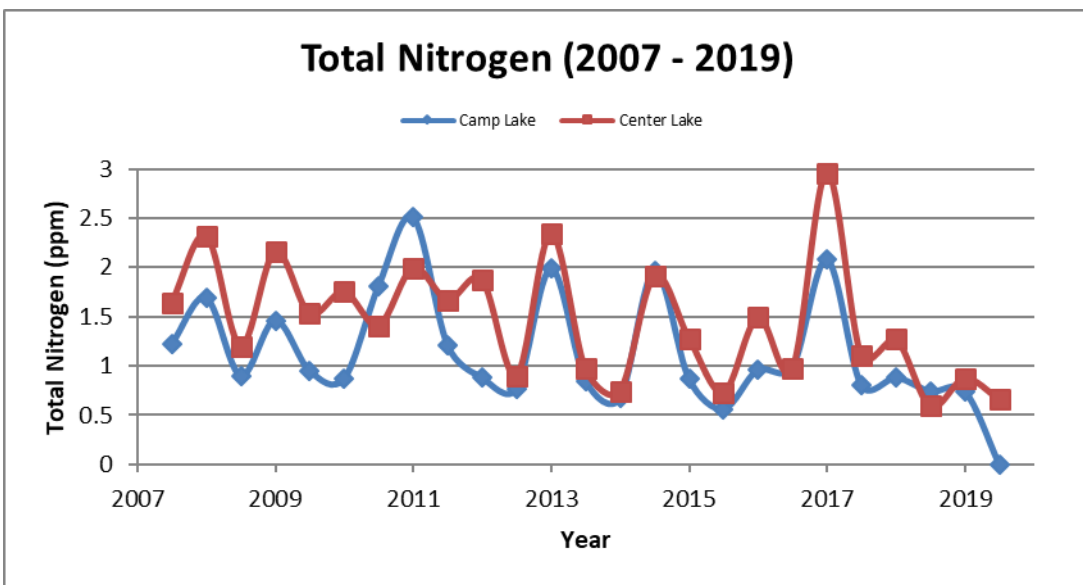
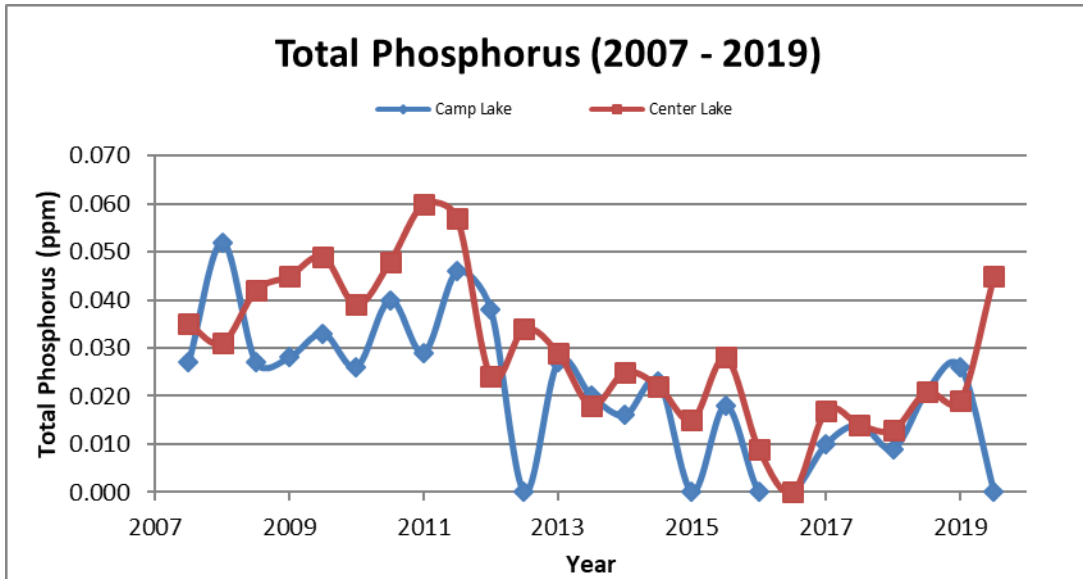
Dear Mr. Strachan,

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, NO<sub>2</sub>+NO<sub>3</sub>, 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   | LOW (Good)  | LOW (Good)    |
| Total Phosphorus  | LOW (Good)  | NORMAL        |
| Ammonia Nitrogen (NH <sub>3</sub> )                               | LOW (Good)  | NORMAL        |
| Nitrite plus Nitrate Nitrogen (NO <sub>2</sub> +NO <sub>3</sub> ) | LOW (Good)  | LOW (Good)    |
| Total Kjeldahl Nitrogen (TKN)                                     | LOW (Good)  | NORMAL        |
| Chloride (Cl)   | NORMAL      | NORMAL        |
| Sulfate (SO <sub>4</sub> )  | NORMAL      | NORMAL        |
| Sodium (Na)   | NORMAL      | NORMAL        |
| Potassium (K)   | NORMAL      | NORMAL        |
| Turbidity   | ELEVATED    | ELEVATED      |
| Color   | NORMAL      | ELEVATED      |

Overall, the water quality in both lakes looks good as most components remained constant. We did notice that phosphorus increased on Center Lake which corresponds to the increase in algae on the lake this season. This could be due, in part, to larger storms bringing more rain and runoff to the system or a raising groundwater table that would flush nutrients out of wetland type sediments. It's worth keeping an eye on in future sampling periods. Below are the historical phosphorus and nitrogen graphs.



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

Sincerely,

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