

Appendix C: LakeWatch Trend Plots for Lemon Creek

Three Locations

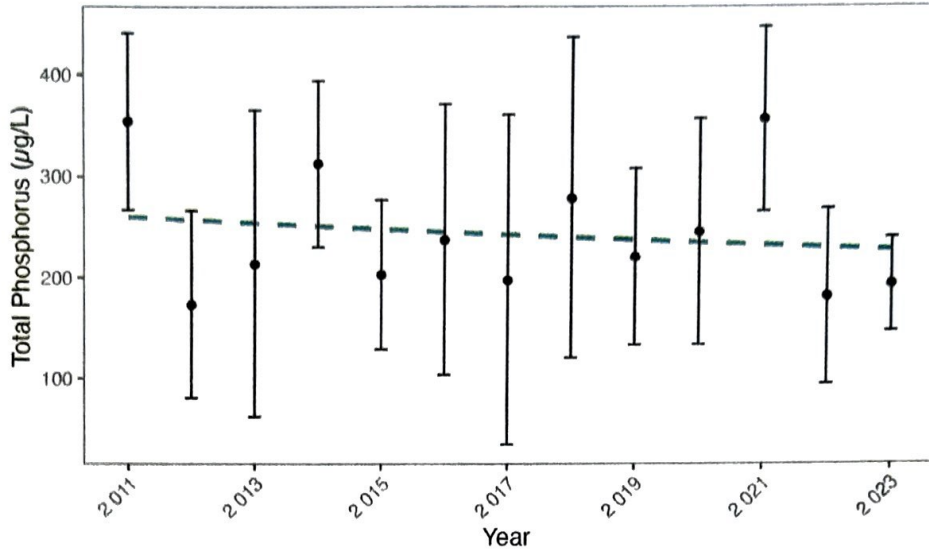
LC-1 thru LC-3

July 2011 – November 2023

LC-1 (LEMON CREEK - NORTH)

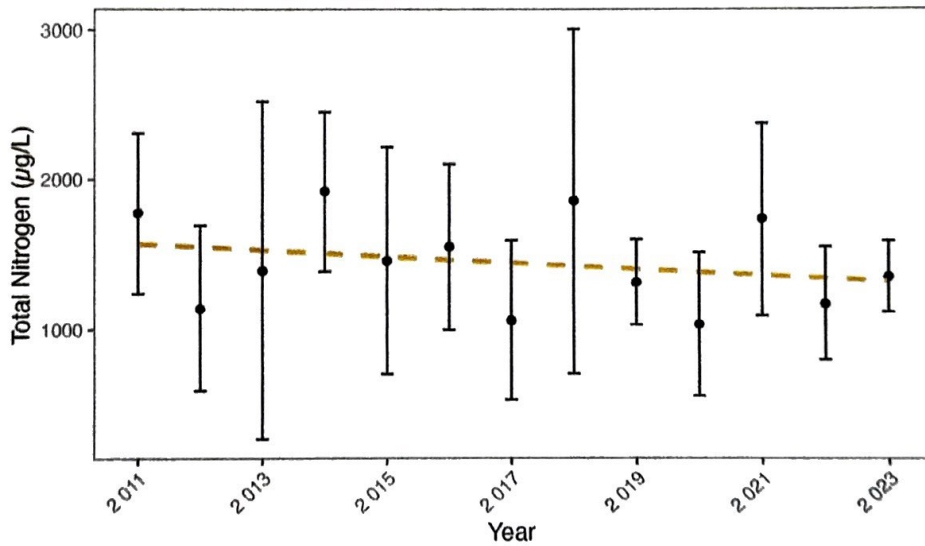
##Figure 1 and Figure 2. Trend plots of annual average total phosphorus and annual average total nitrogen versus year. The R2 value indicates the strength of the relations (ranges from 0.0 to 1.0; higher the R2 the stronger the relation) and the p value indicates if the relation is significant (p < 0.05 is significant). Trend Status are reported on plots.

Total Phosphorus ($\mu\text{g/L}$) by Year for LC-1 in Charlotte County



p = 0.59, R² = 0.028, No trend

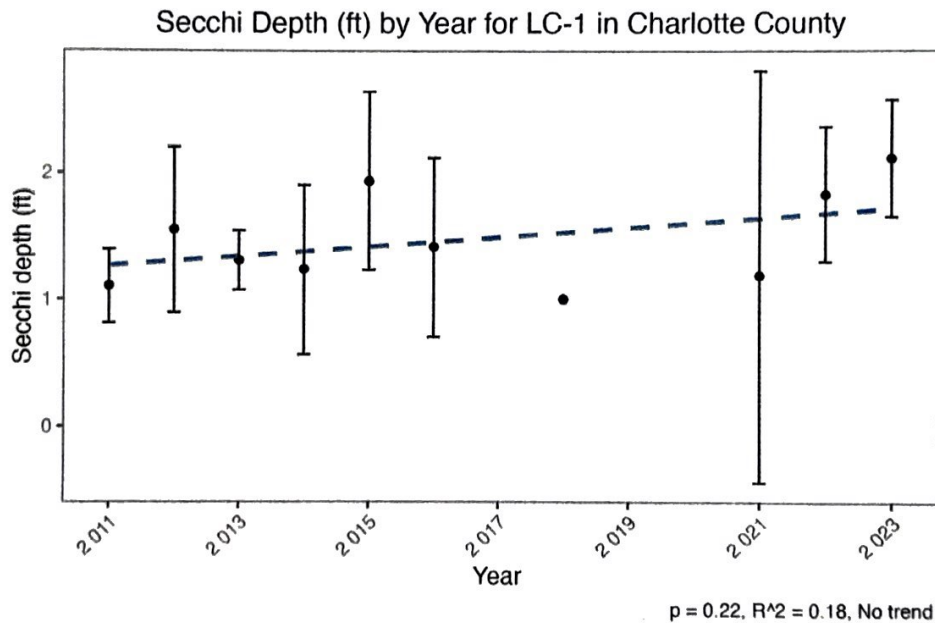
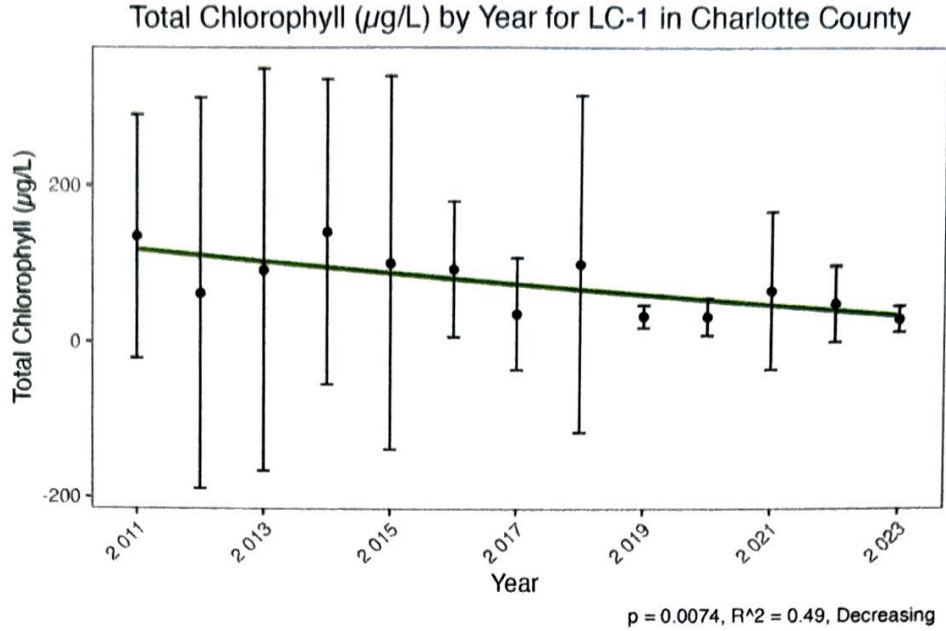
Total Nitrogen ($\mu\text{g/L}$) by Year for LC-1 in Charlotte County



p = 0.39, R² = 0.068, No trend

LC-1 (LEMON CREEK - NORTH)

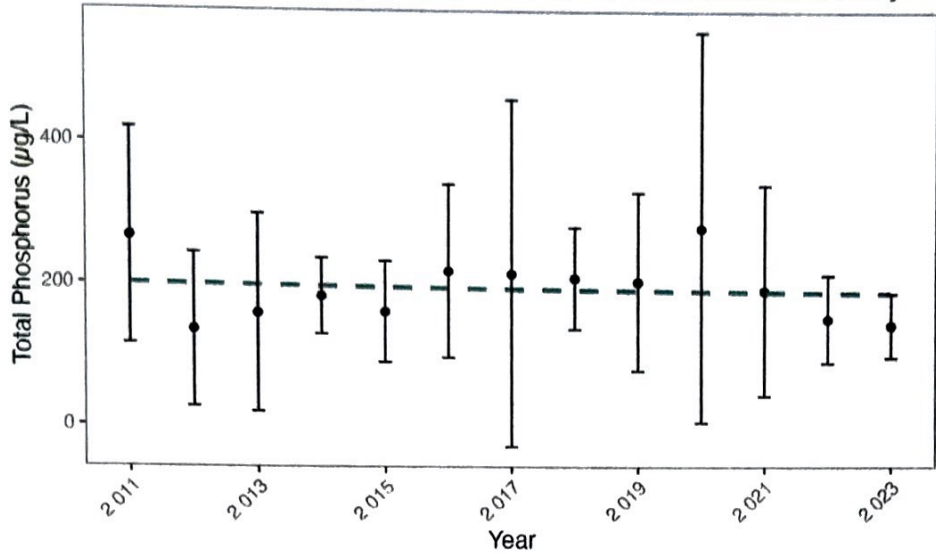
Figure 4 and Figure 5. Trend plots of total phosphorus and total nitrogen versus year. The R^2 value indicates the strength of the relations (ranges from 0.0 to 1.0; higher the R^2 the stronger the relation) and the p value indicates if the relation is significant ($p < 0.05$ is significant). Trend Status are reported on plots as Increasing, Decreasing, or No Trend.



LC-2 (LEMON CREEK - CENTRAL)

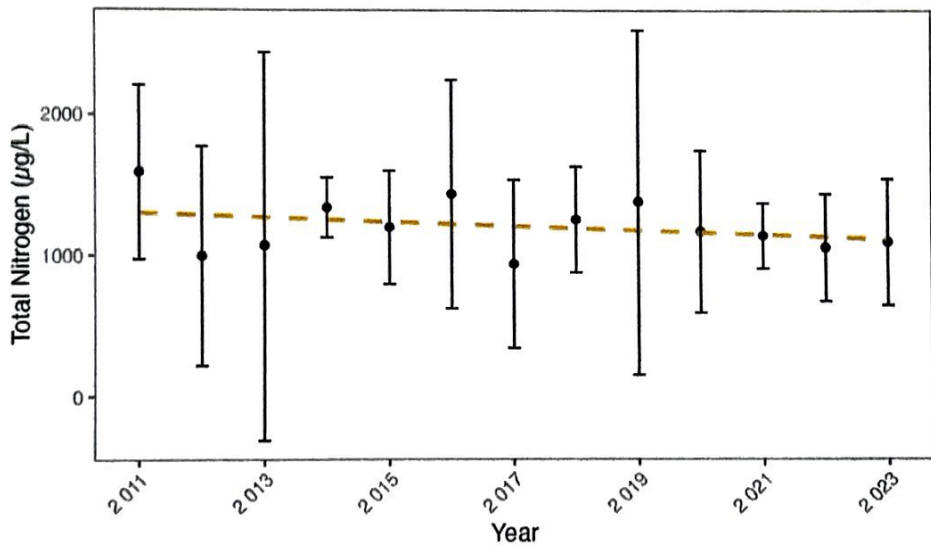
##Figure 1 and Figure 2. Trend plots of annual average total phosphorus and annual average total nitrogen versus year. The R2 value indicates the strength of the relations (ranges from 0.0 to 1.0; higher the R2 the stronger the relation) and the p value indicates if the relation is significant ($p < 0.05$ is significant). Trend Status are reported on plots.

Total Phosphorus ($\mu\text{g/L}$) by Year for LC-2 in Charlotte County



$p = 0.8$, $R^2 = 0.0061$, No trend

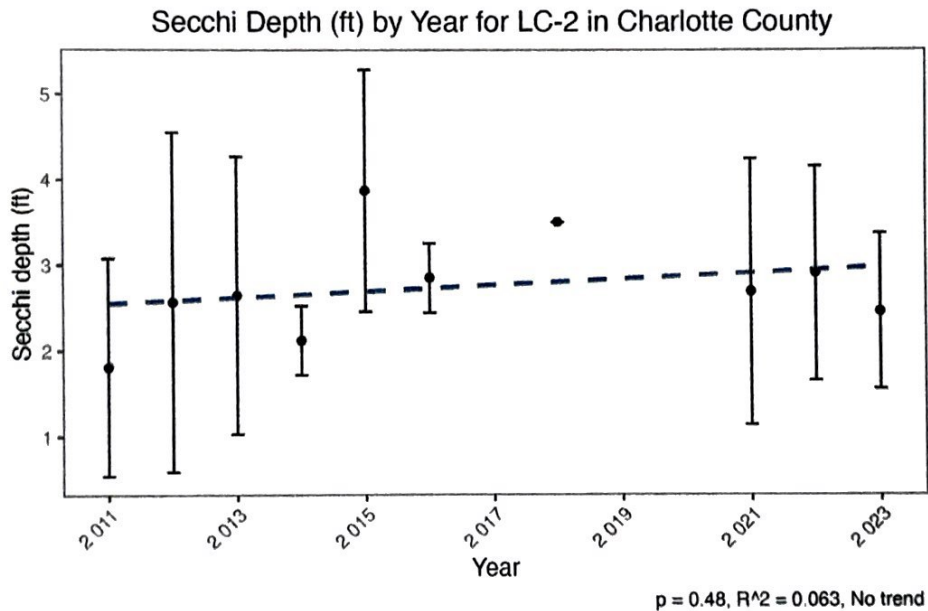
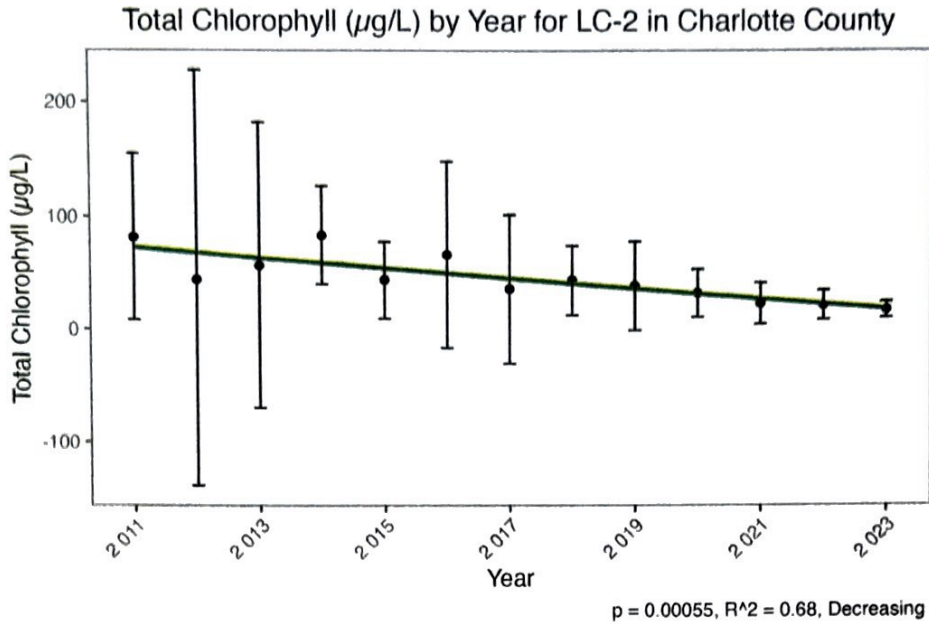
Total Nitrogen ($\mu\text{g/L}$) by Year for LC-2 in Charlotte County



$p = 0.28$, $R^2 = 0.1$, No trend

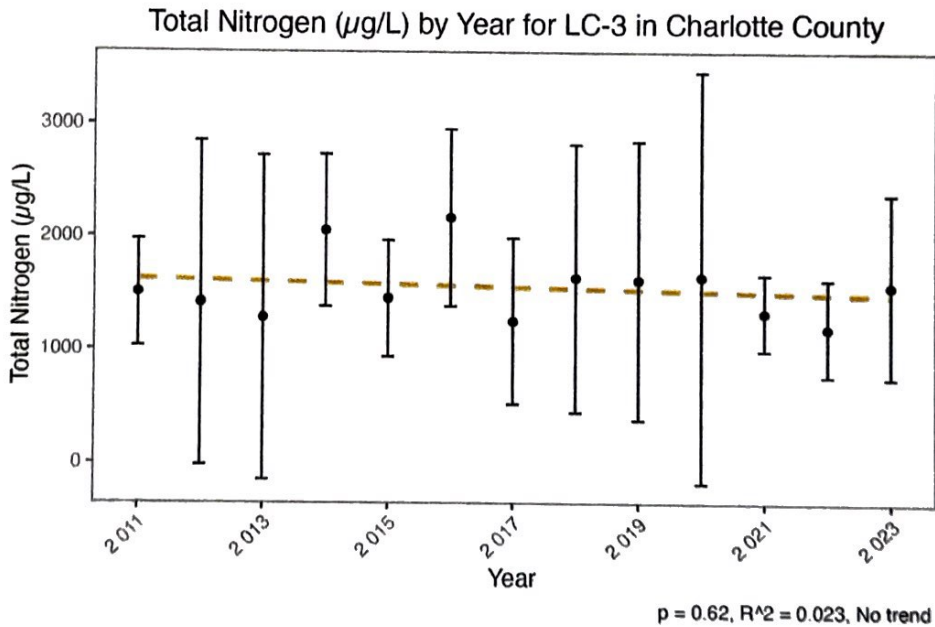
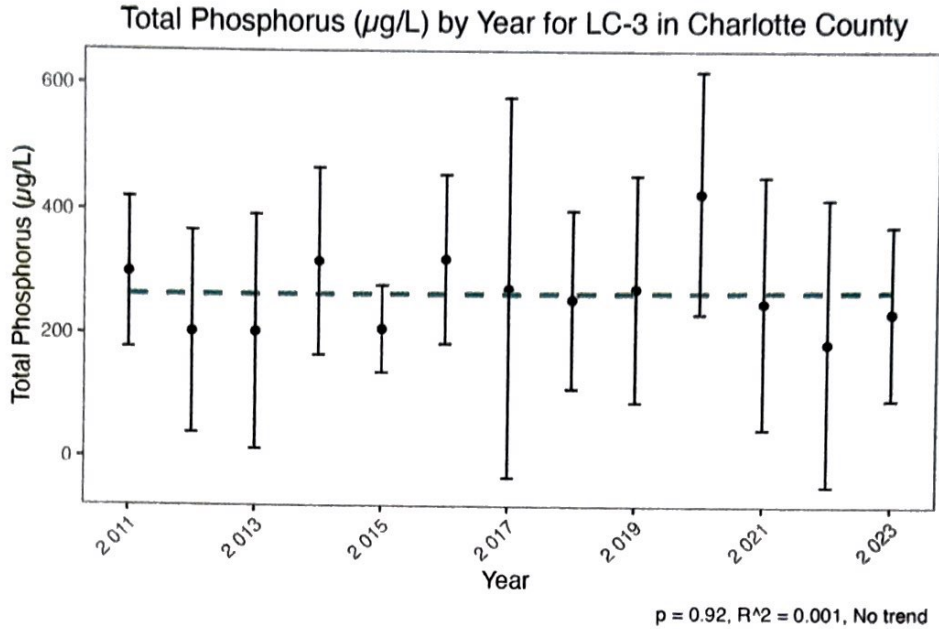
LC-2 (LEMON CREEK-CENTRAL)

Figure 4 and Figure 5. Trend plots of total phosphorus and total nitrogen versus year. The R^2 value indicates the strength of the relations (ranges from 0.0 to 1.0; higher the R^2 the stronger the relation) and the p value indicates if the relation is significant ($p < 0.05$ is significant). Trend Status are reported on plots as Increasing, Decreasing, or No Trend.



LC-3 (LEMON CREEK - SOUTH)

##Figure 1 and Figure 2. Trend plots of annual average total phosphorus and annual average total nitrogen versus year. The R2 value indicates the strength of the relations (ranges from 0.0 to 1.0; higher the R2 the stronger the relation) and the p value indicates if the relation is significant ($p < 0.05$ is significant). Trend Status are reported on plots.



LC-3 (LEMON CREEK - SOUTH)

Figure 4 and Figure 5. Trend plots of total phosphorus and total nitrogen versus year. The R^2 value indicates the strength of the relations (ranges from 0.0 to 1.0; higher the R^2 the stronger the relation) and the p value indicates if the relation is significant ($p < 0.05$ is significant). Trend Status are reported on plots as Increasing, Decreasing, or No Trend.

