

**Appendix B: LakeWatch Trend Plots for Six Ponds
at Lemon Creek Wildflower Preserve**

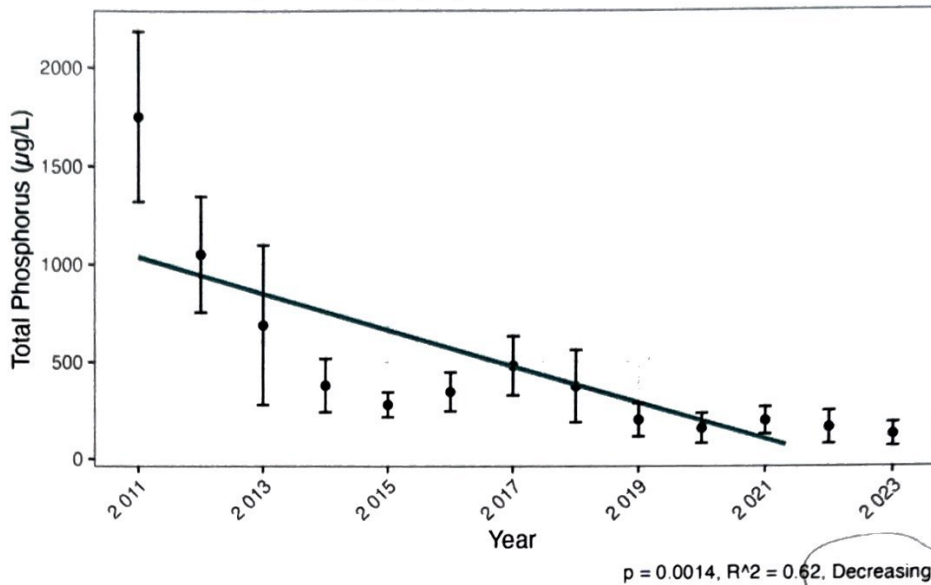
WF-1 thru WF-6

July 2011 – November 2023

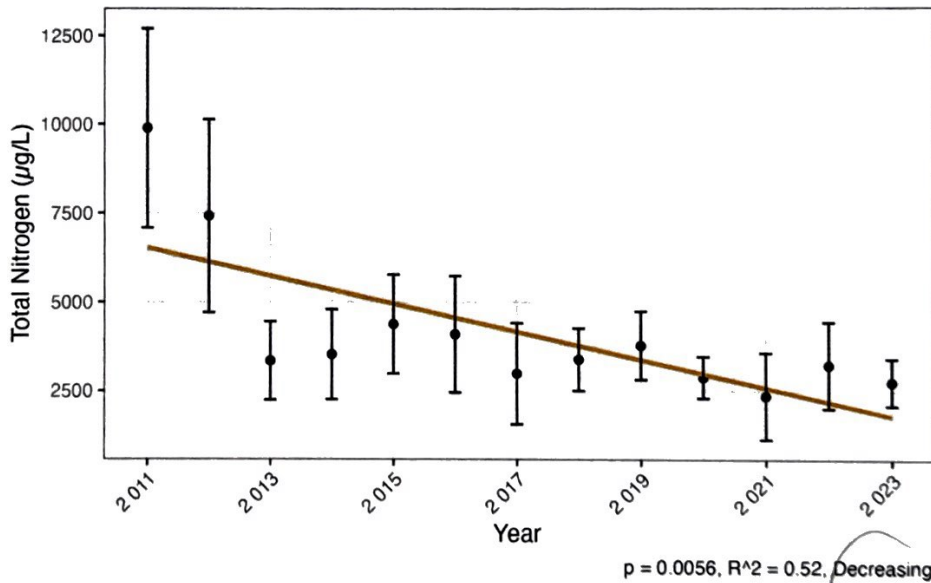
WF-1 (Duckweed Pond)

Figure 2 and Figure 3. 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.

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

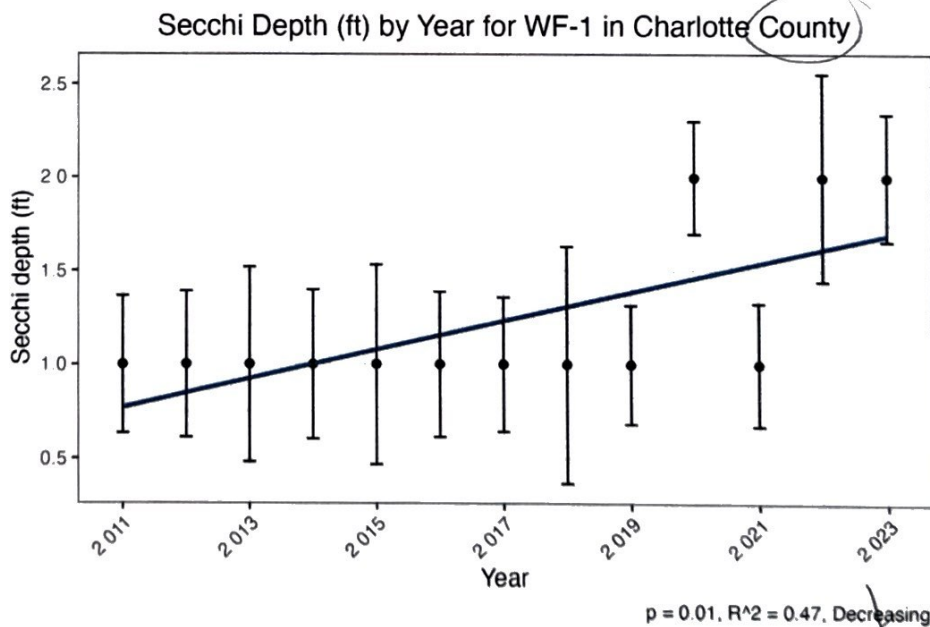
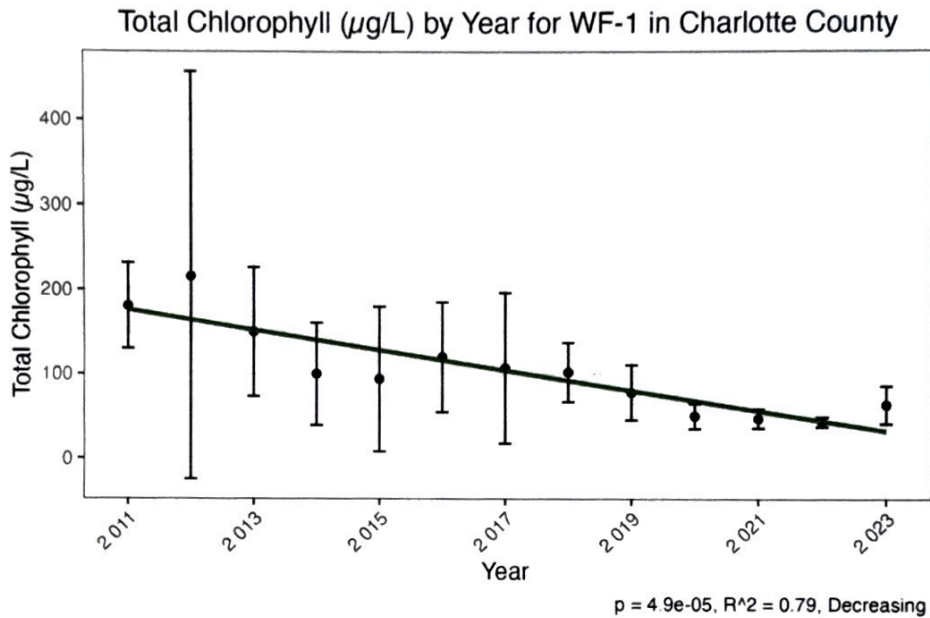


Total Nitrogen ($\mu\text{g/L}$) by Year for WF-1 in Charlotte County



WF-1 (Duckweed Pond)

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.

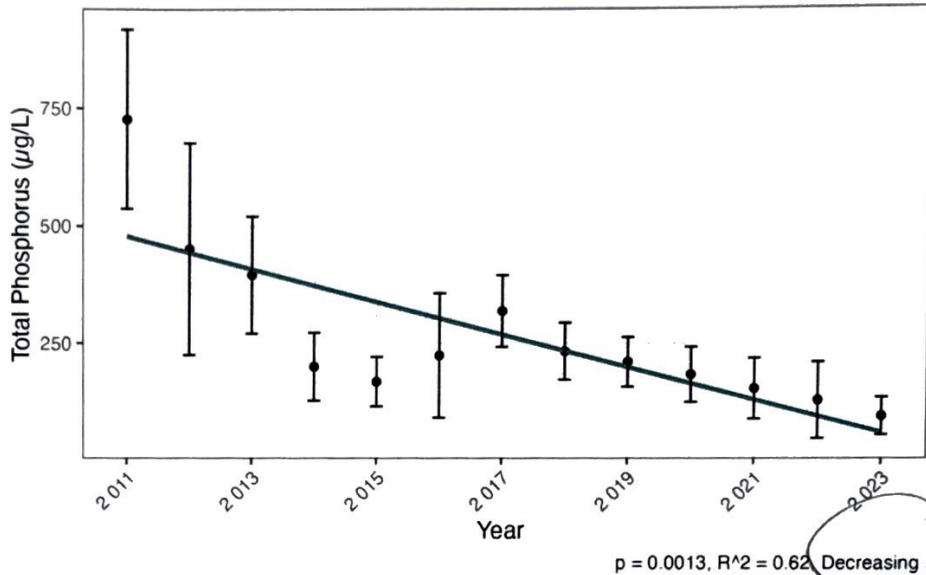


Increasing

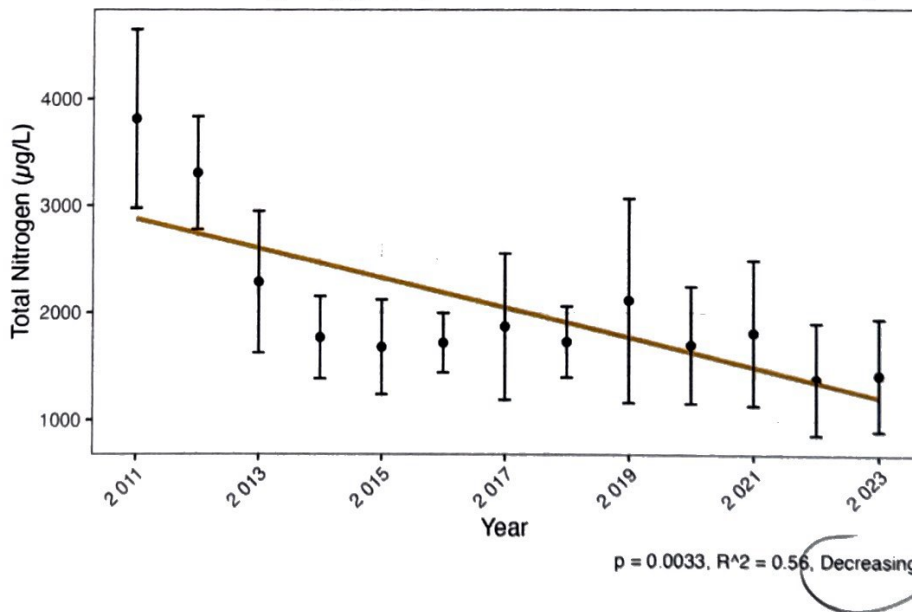
WF-2 (LONG POND)

Figure 2 and Figure 3. 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.

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



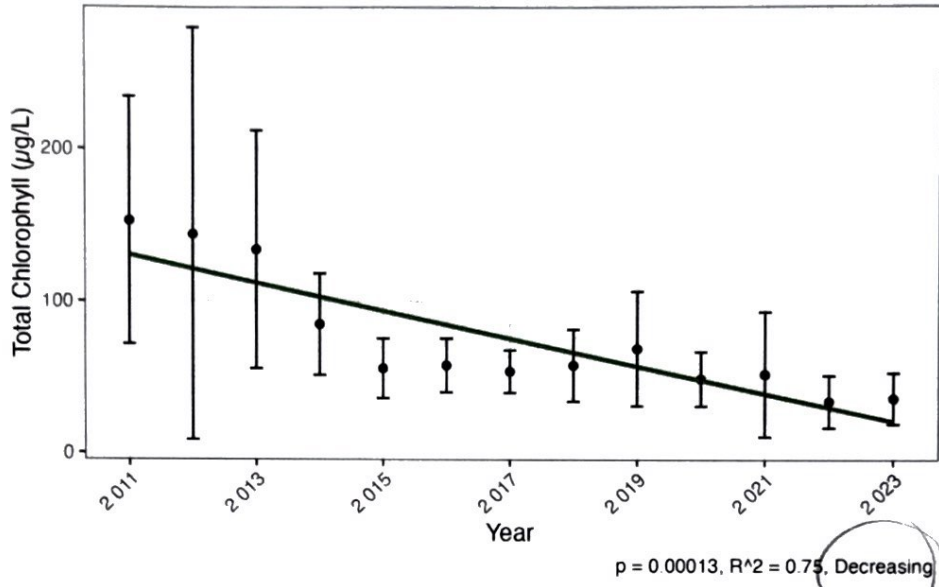
Total Nitrogen ($\mu\text{g/L}$) by Year for WF-2 in Charlotte County



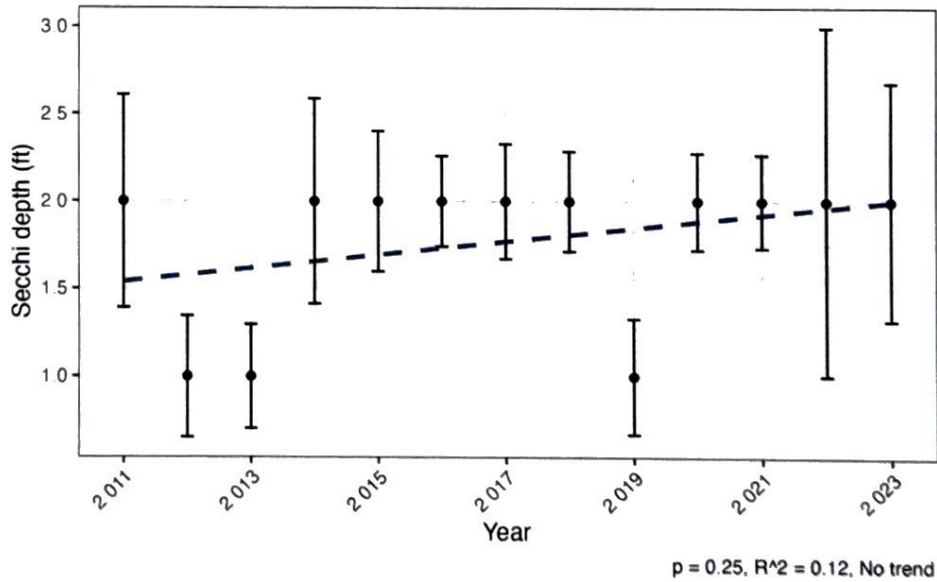
WF-2 (LONG POND)

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.

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

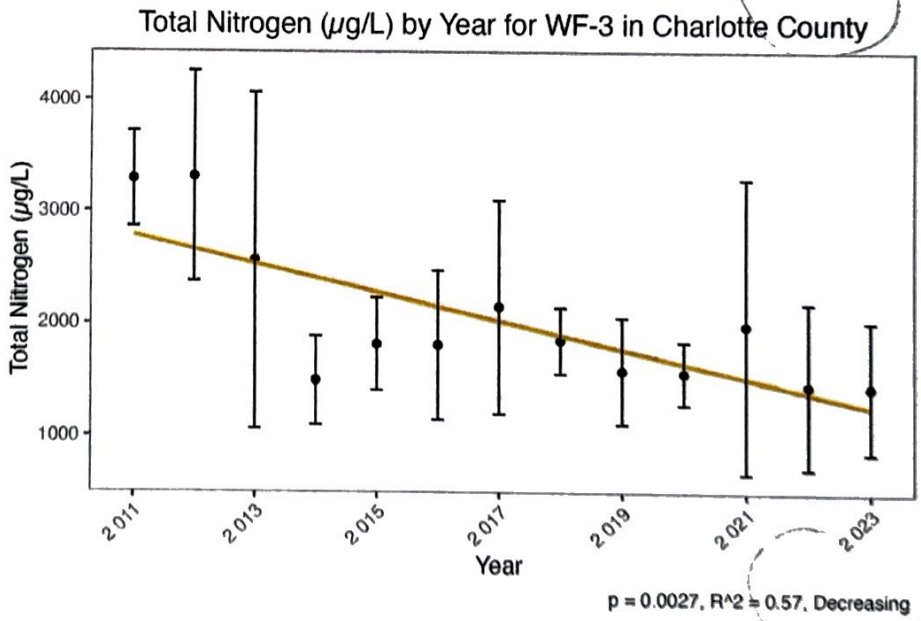
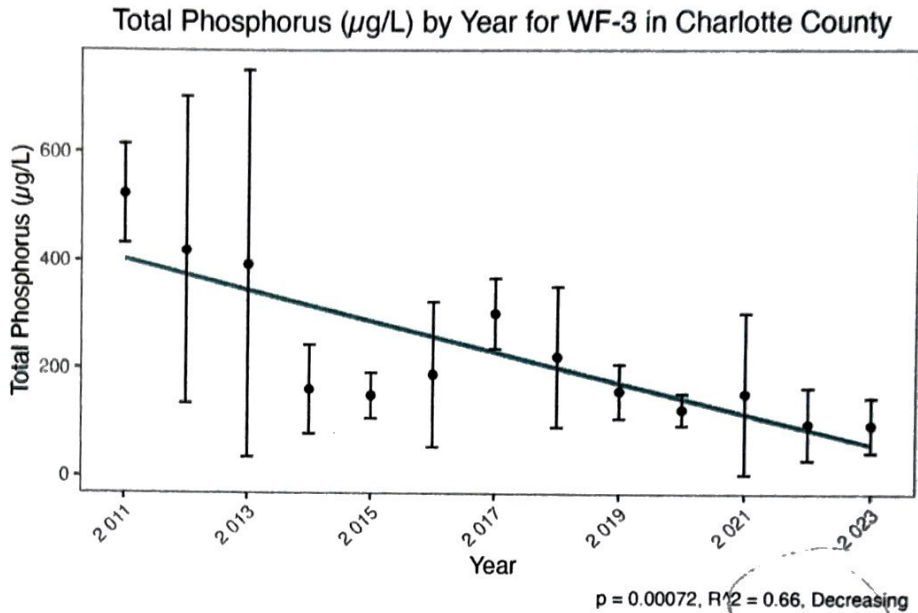


Secchi Depth (ft) by Year for WF-2 in Charlotte County



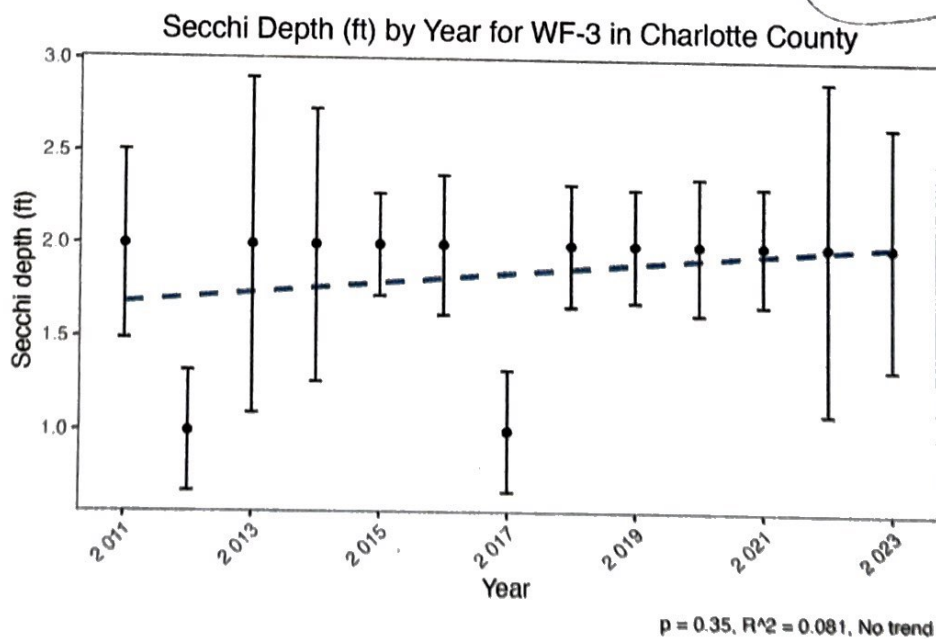
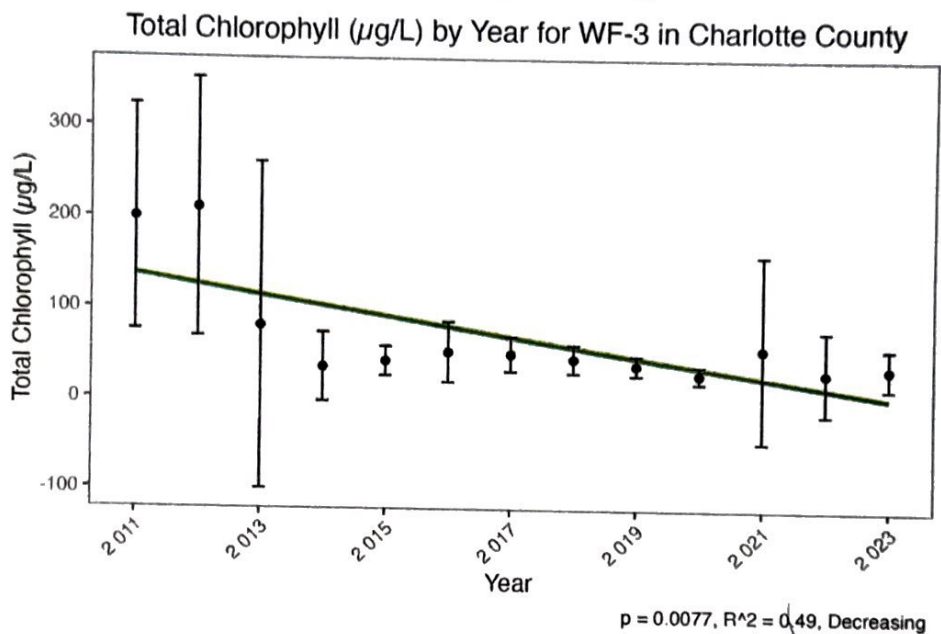
WF-3 (MOORHEN POND)

Figure 2 and Figure 3. 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.



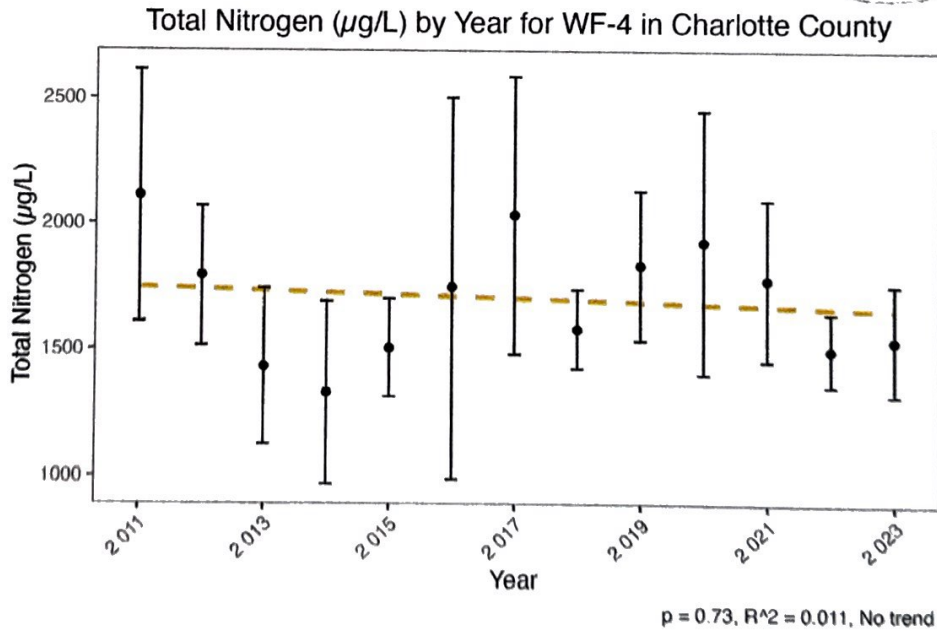
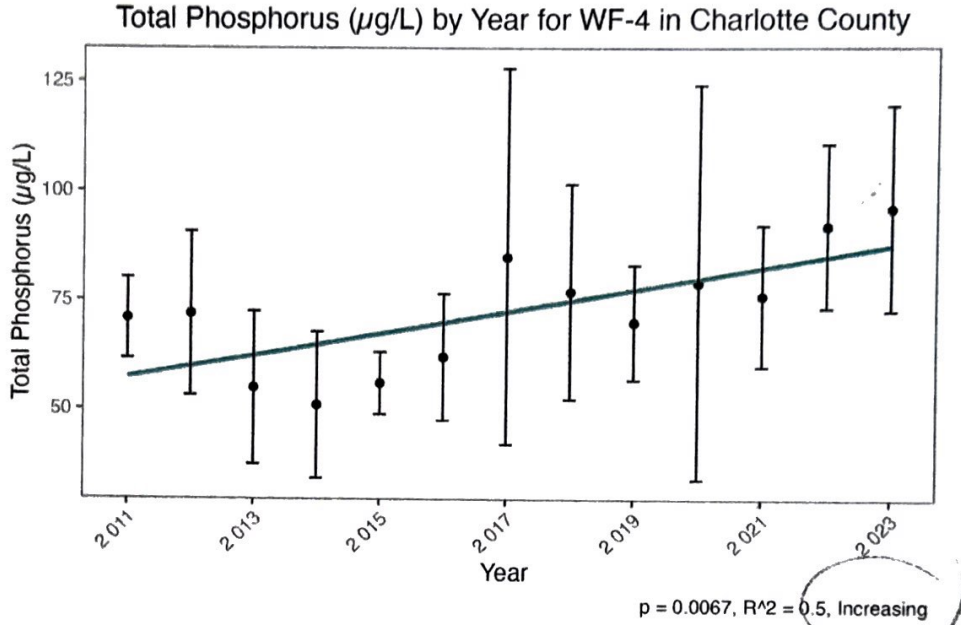
WF-3 (MOORHEN POND)

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.



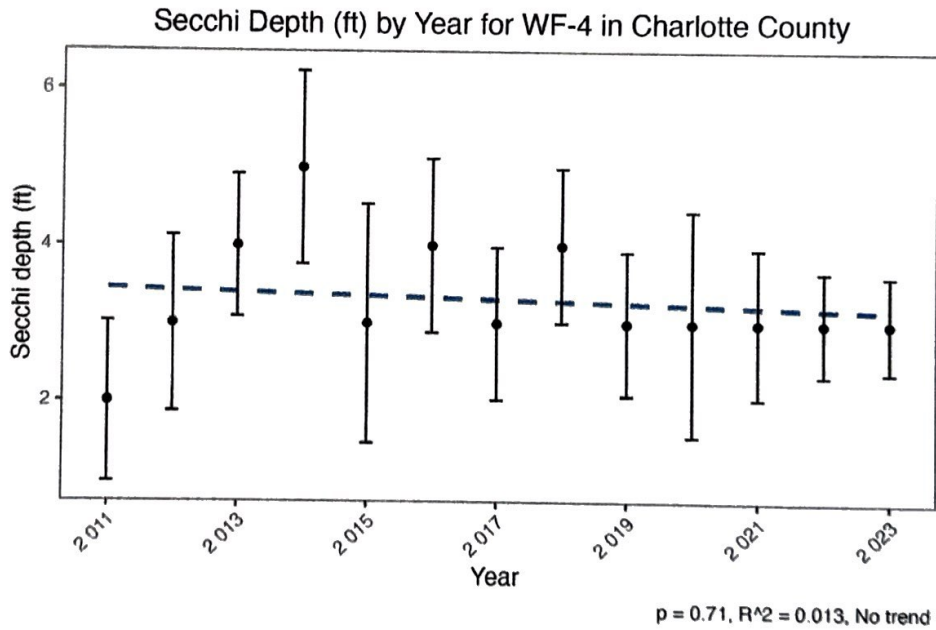
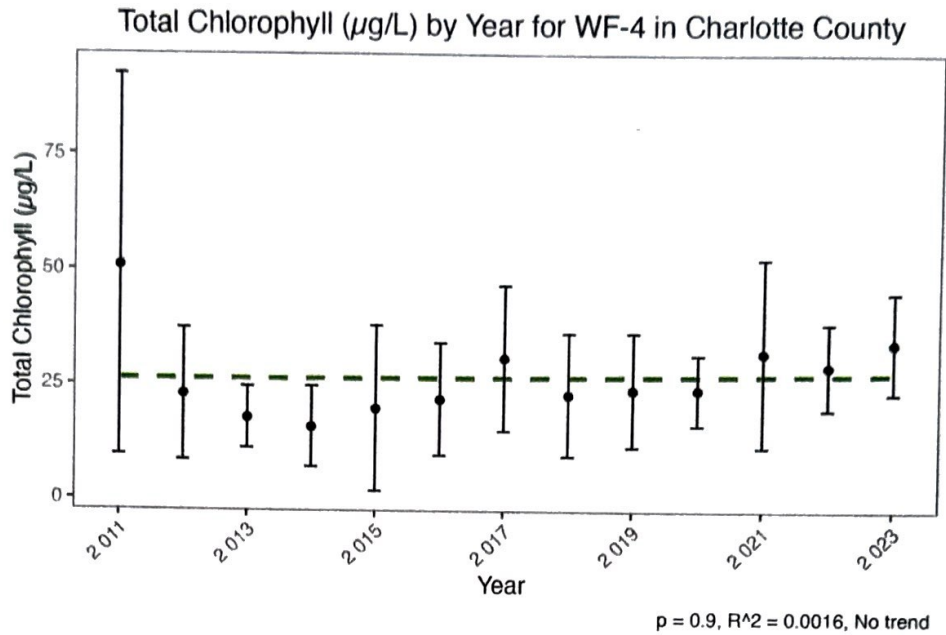
WF-4 (HOSMAN POND)

Figure 2 and Figure 3. 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.



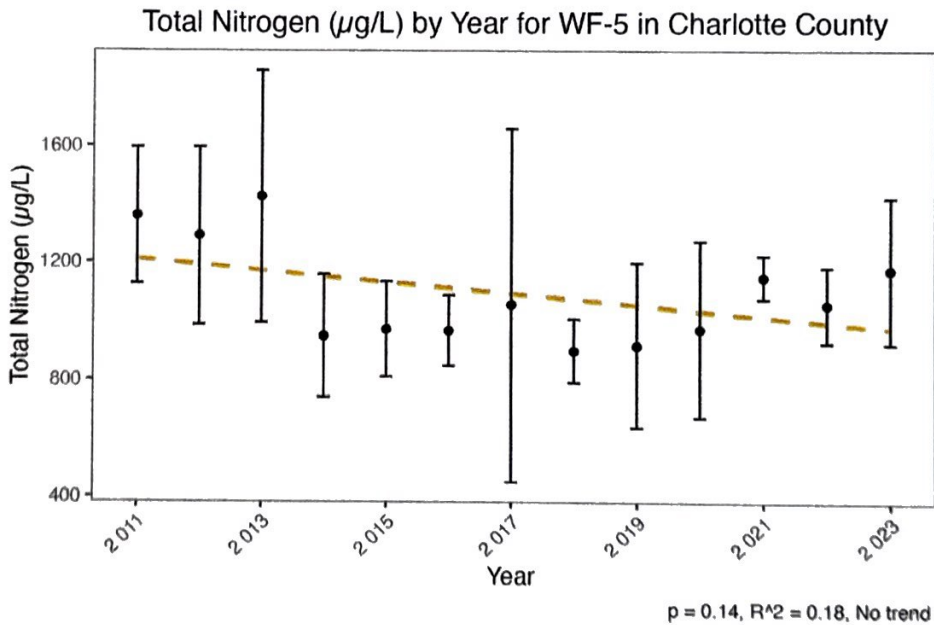
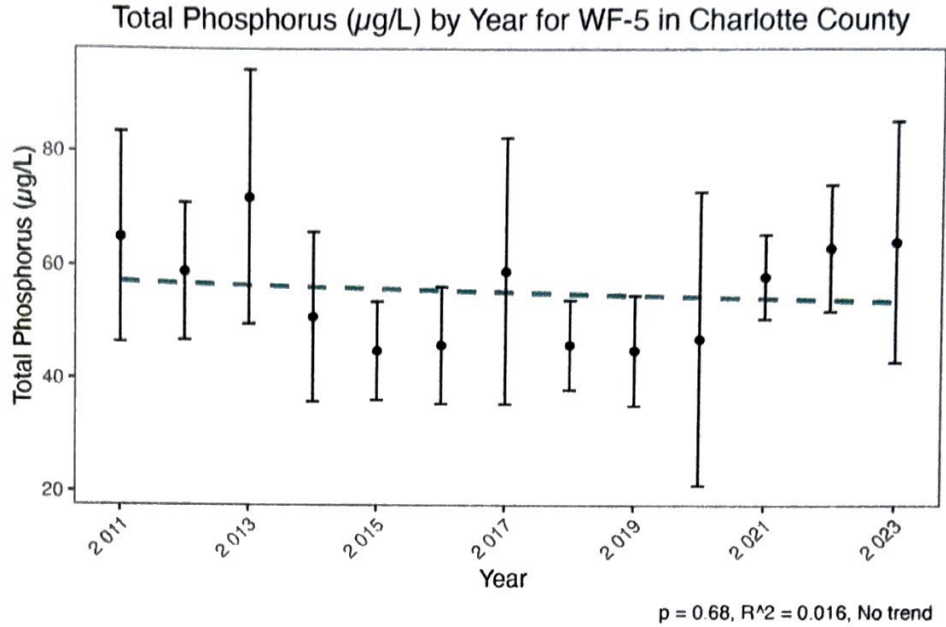
WF-4 (HOSMAN POND)

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.



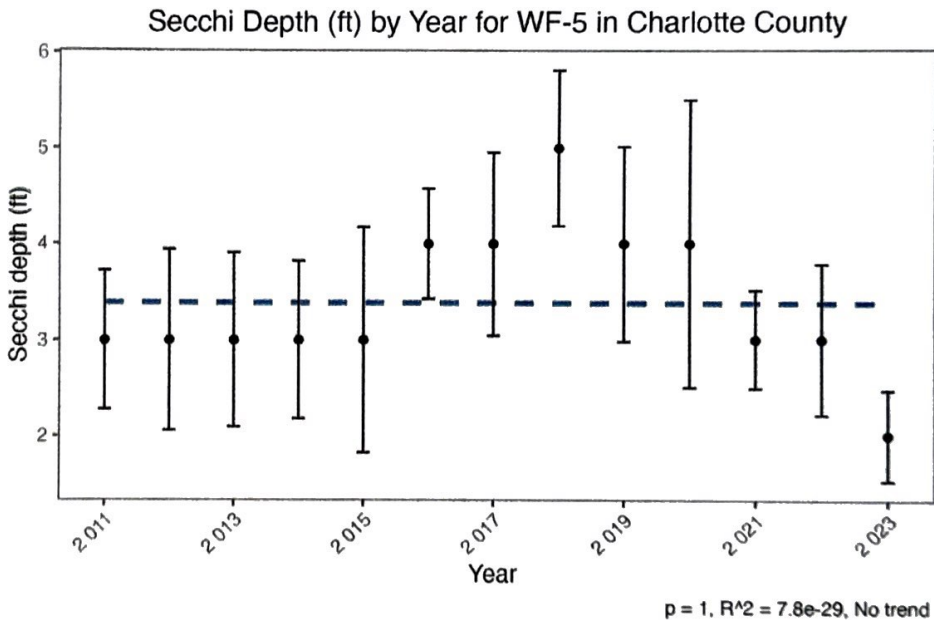
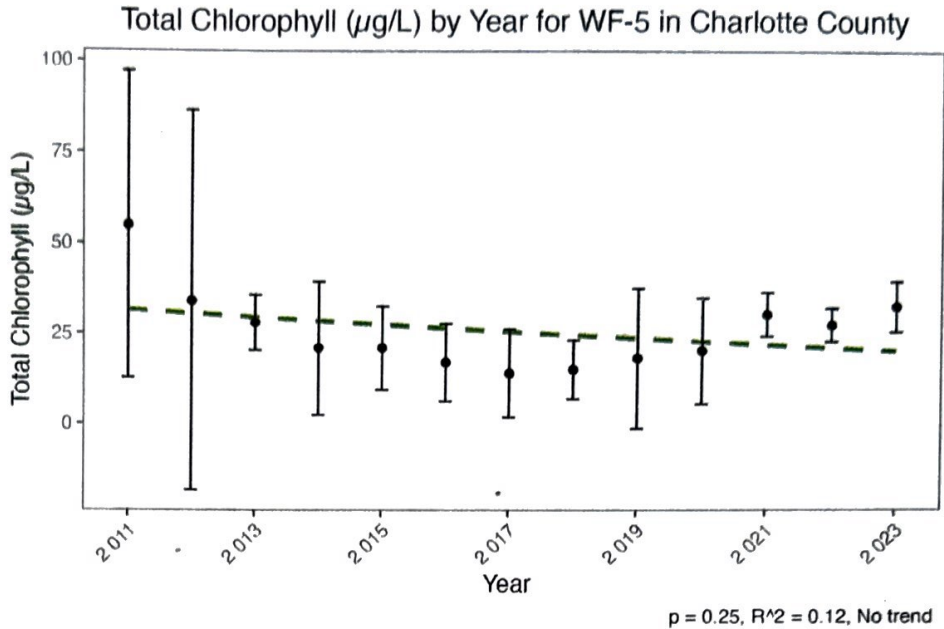
WF-5 (VERNA'S POND)

Figure 2 and Figure 3. 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.



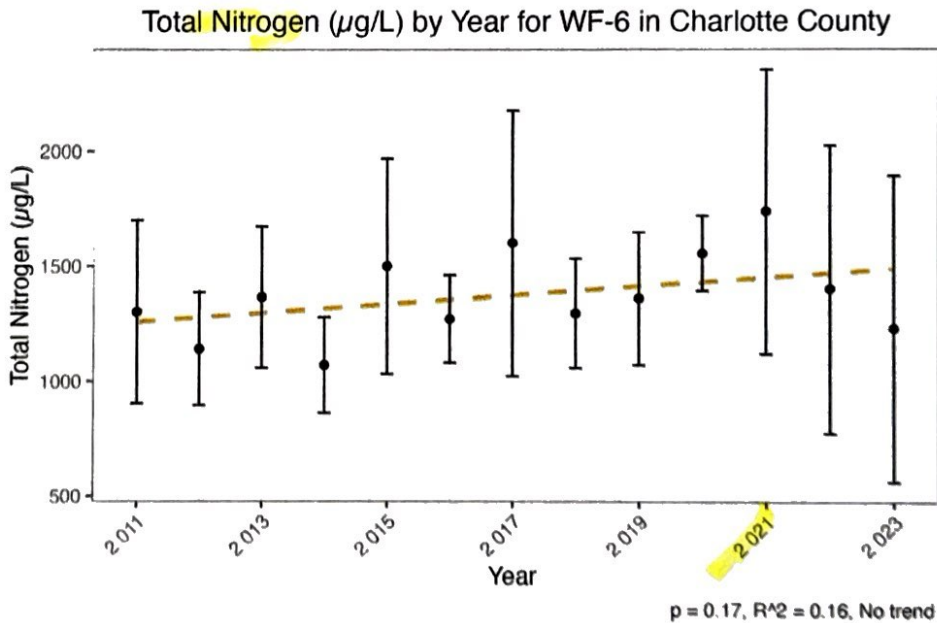
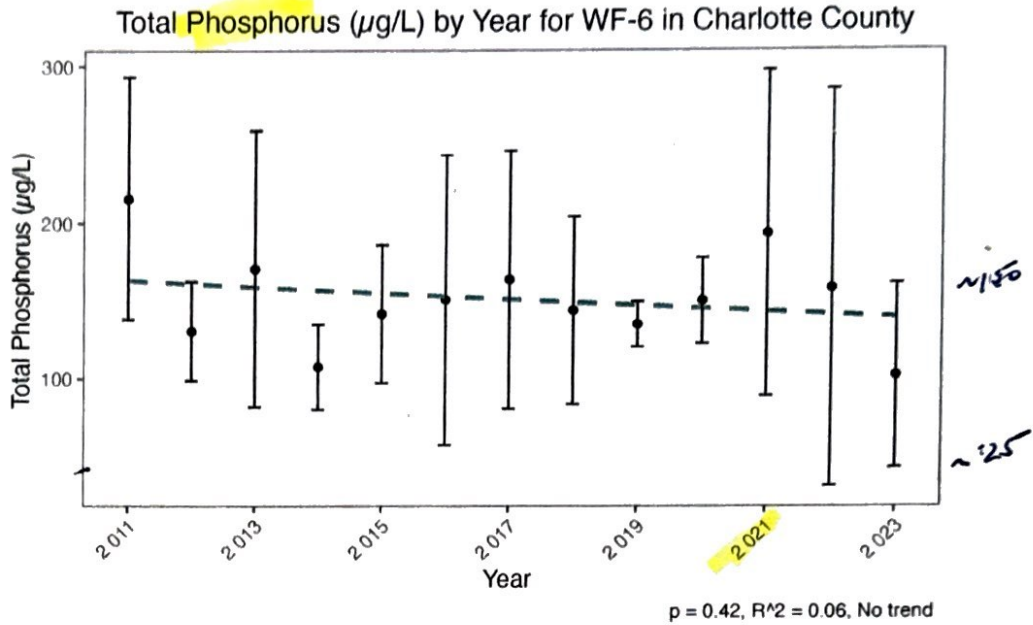
WF-5 (VERNA'S POND)

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.



WF-6 (TURTLE POND)

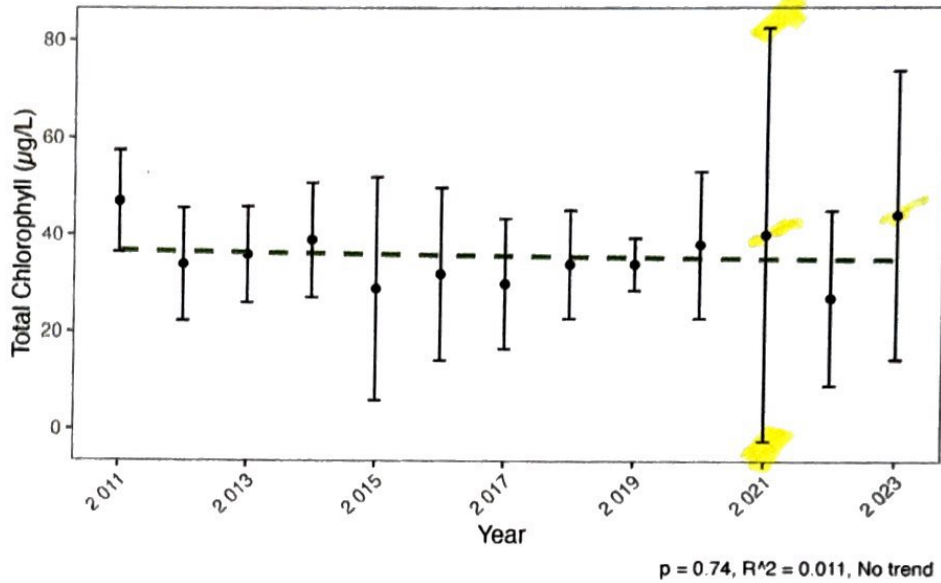
Figure 2 and Figure 3. Trend plots of total phosphorus and total nitrogen versus year. The R^2 value indicates the strength of the relations (ranges from 0.0 to 1.0; higher the R^2 the stronger the relation) and the p value indicates if the relation is significant ($p < 0.05$ is significant). Trend Status are reported on plots as Increasing, Decreasing, or No Trend.



WF-6 (TURTLE POND)

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.

Total Chlorophyll ($\mu\text{g/L}$) by Year for WF-6 in Charlotte County



Secchi Depth (ft) by Year for WF-6 in Charlotte County

