



May 12, 2023

Lake Pasadena Estates Neighborhood Residents,

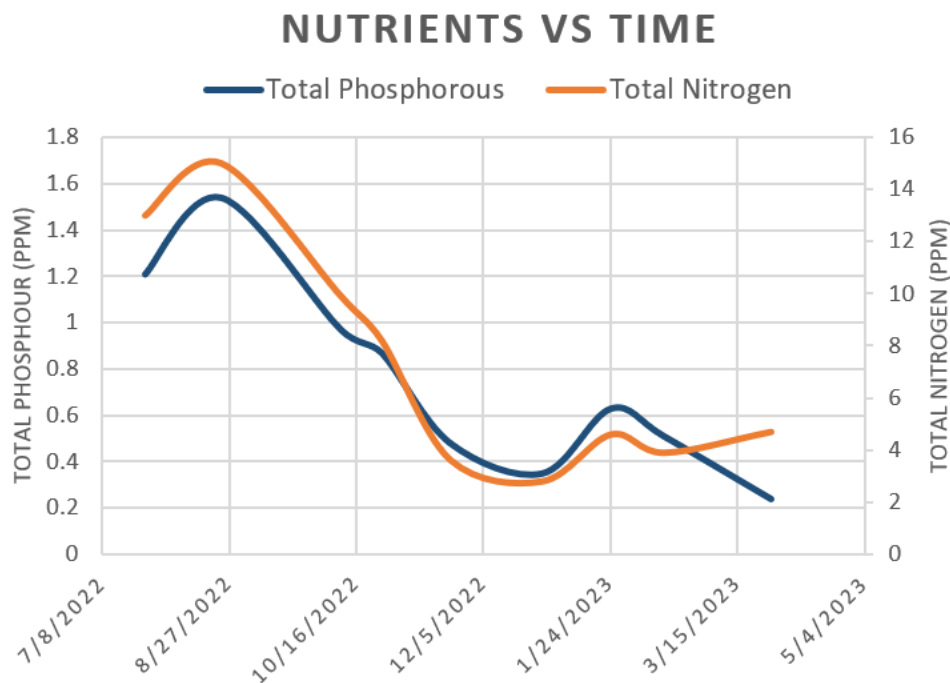
I hope this letter finds you well. As a representative of the City, I would like to take this opportunity to provide you with some updates regarding the ongoing work in our neighborhood, specifically related to Pasadena and Disston Lake. These updates concern important initiatives aimed at enhancing water quality through our nutrient reduction plan and upcoming projects.

To combat the harmful effects of excessive nutrients, such as phosphorus and nitrogen, we have developed a comprehensive nutrient reduction plan for Pasadena Lake. High nutrient levels can trigger algal blooms, leading to water quality deterioration. The three small aerators you may have seen bubbling in Pasadena Lake have been part of this plan by diffusing air and water over a simple flocculant which helps bind nutrients and separate them from the water column.

Additionally, on the week of May 1st, we applied an innovative technology and treatment regime for Pasadena lake with a product called "Phos-lock". This bentonite clay was combined with an algaecide to again release and then bind the nutrient phosphorous in the water.

Additional water quality samples were taken before and after to measure the effectiveness and should be available in June. It is our goal to preemptively treat and mitigate blooms this Summer coincident with permanent bonding of nutrients. An added benefit of these treatments is they do not directly affect other water quality paramters and are safe for wildlife. If effective, this approach is also scalable to other lakes in our City which is exciting.

We have seen success with this plan as shown in the below graph. Decreasing and lowered nitrogen and phosphorous levels since the inception of the plan are a positive sign.





We have also been working with Duke Energy in getting power secured out to both lakes so that if sub-surface aeration or surface aerations e.g. fountains are an option in the future they can be easily installed. While power does exist for the streetlights, separate runs have to be made for this consideration which required Duke to adequately size and in some cases, increase the capacity of the existing distribution system in anticipation for this additional electrical load.

Power has been upgraded for Pasadena Lake and on Monday of this week we received the invoice for the power drop at Disston Lake. And we have been working with our colleagues at the Engineering Department to usher this process along. Once this work is completed by Duke we plan to come back to the community and work with you to determine what aeration is necessary and I really look forward to that project.

We appreciate the importance of keeping residents informed, so for further information or more specific concerns, please contact me at our office at michael.perry@stpete.org. We value your cooperation and support in our efforts to enhance the beauty and environmental integrity of our community.

A handwritten signature in black ink that reads "Michael Perry". The signature is fluid and cursive, with a long, sweeping underline.

Michael Perry, P.E.
Stormwater Environmental Services Manager

City of St. Petersburg
Stormwater, Pavement, and Traffic Operations Department



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