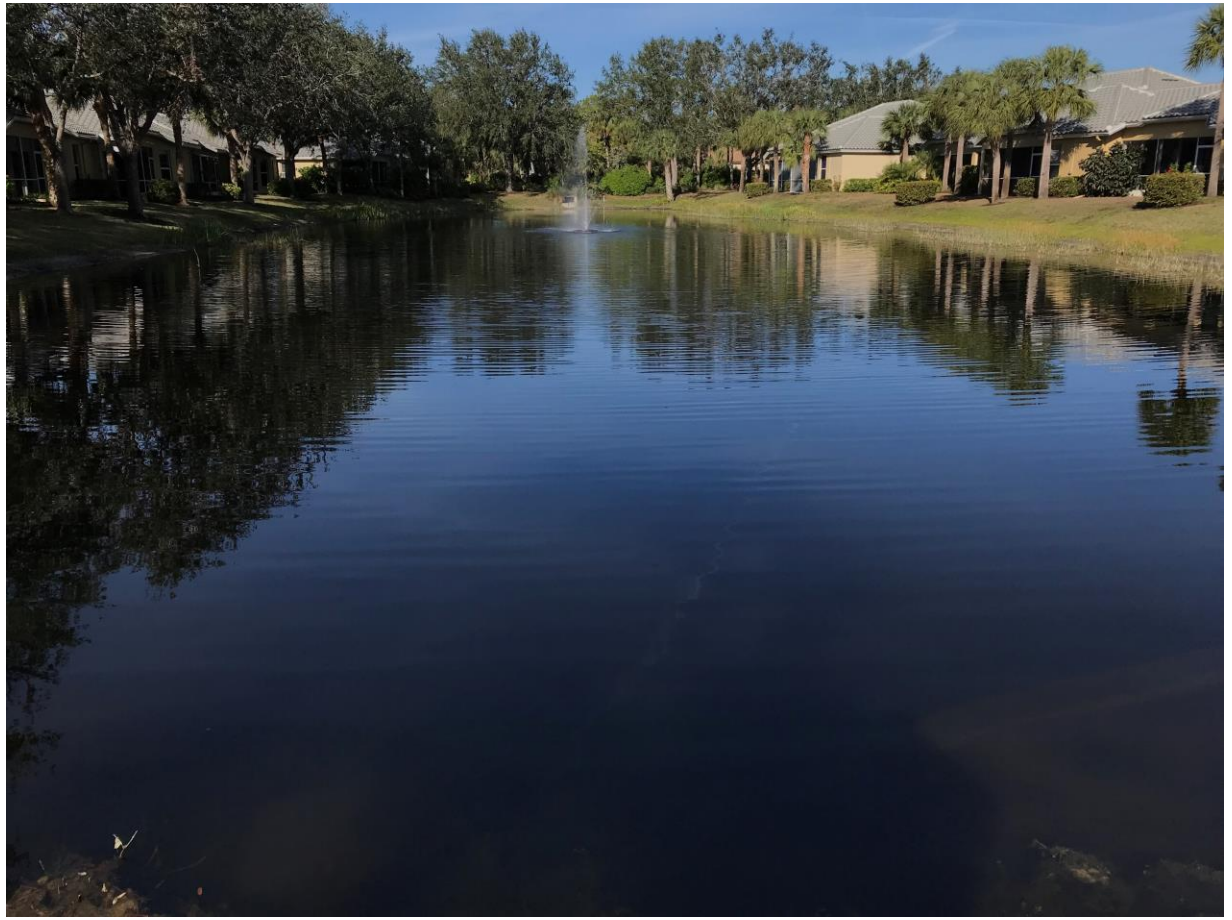
Bayside Baycreek CDD
Lake Management Report
January 2018

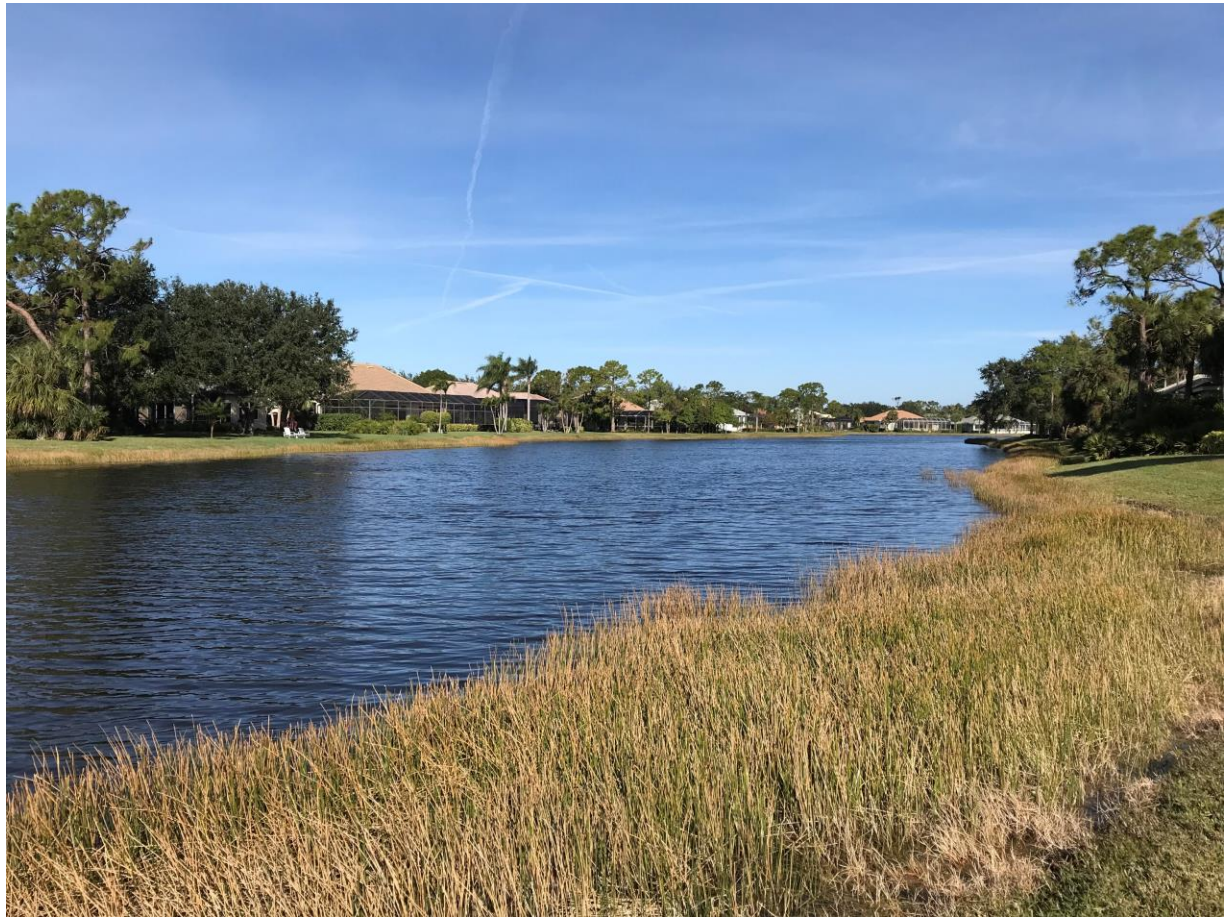
SOLitude Lake Management

- SOLitude Staff worked on mostly maintenance items since the last meeting. Virtually all of the submersed vegetation had already been treated, so only normal algae and grass treatments needed to be performed
- Our applicator in the "D" lake sections, Baycreek, started using Eco Socks bacteria in lakes D7 and D8 to attempt to limit algae growth by removing nutrient. We have also been using them on F1, F6, and F16
- We experimented with another brand of microbe, Muck Pellets in lakes F6 and F16. These lakes are perpetual algae producers that seem to have significant muck build up.
- The visual impact from this product on lake F16 is vivid. This will be evident in pictures that follow.
- Based upon discussion of Johnson Engineering's report on muck in the lakes they are studying, and the concern over substantial build up, we have provided quotes to make certain the aeration systems in those lakes are creating optimal oxygen levels. We also have provided quotes for adding Eco Sox bacteria to those lakes.
- To consider additional options for muck removal, I have set up a site visit with Jeff Castellani, Director of Mechanical Harvesting for SOLitude to evaluate the possibility of his equipment being used to remove muck, and get an idea of the cost for such a project. If a board member, or district management would like to meet with us as part of that visit, we can arrange for that meeting. Jeff works out of New England, so he is not available to us all of the time. The visit will be either February 12th or 13th.
- The community lakes were inspected January 15th 2018. Many lakes looked very good, but we had some significant algae challenges in others. Much of the algae was found in lakes E1- E5 and A18, this string of 6 lakes is always a problem. Other areas seemed to be related to Colony golf course where golf course renovation is going on. Submersed weeds all appeared to be still dying, but some remnants were noticed. Pictures follow:

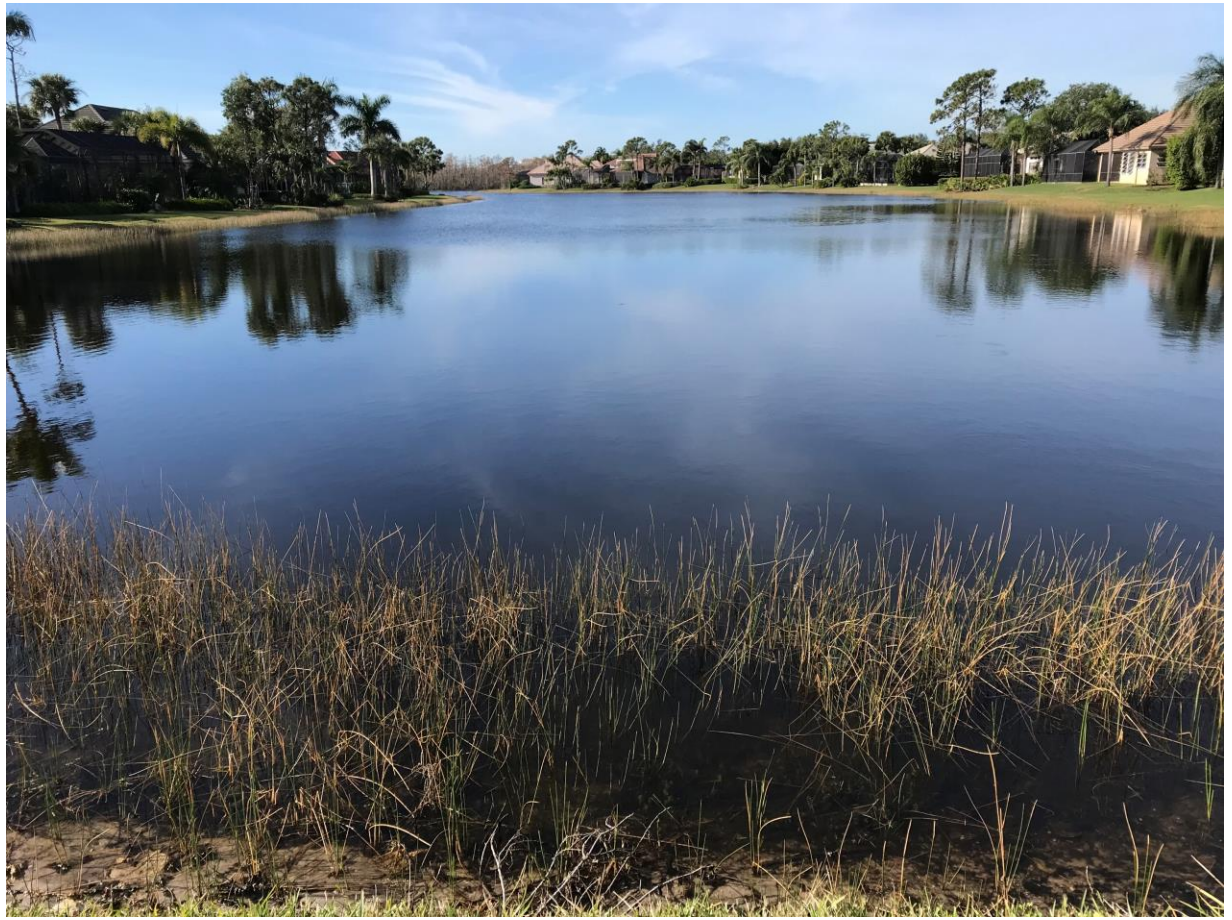
C1 – Longlake Village. Looks good, other than dying bladderwort fragments



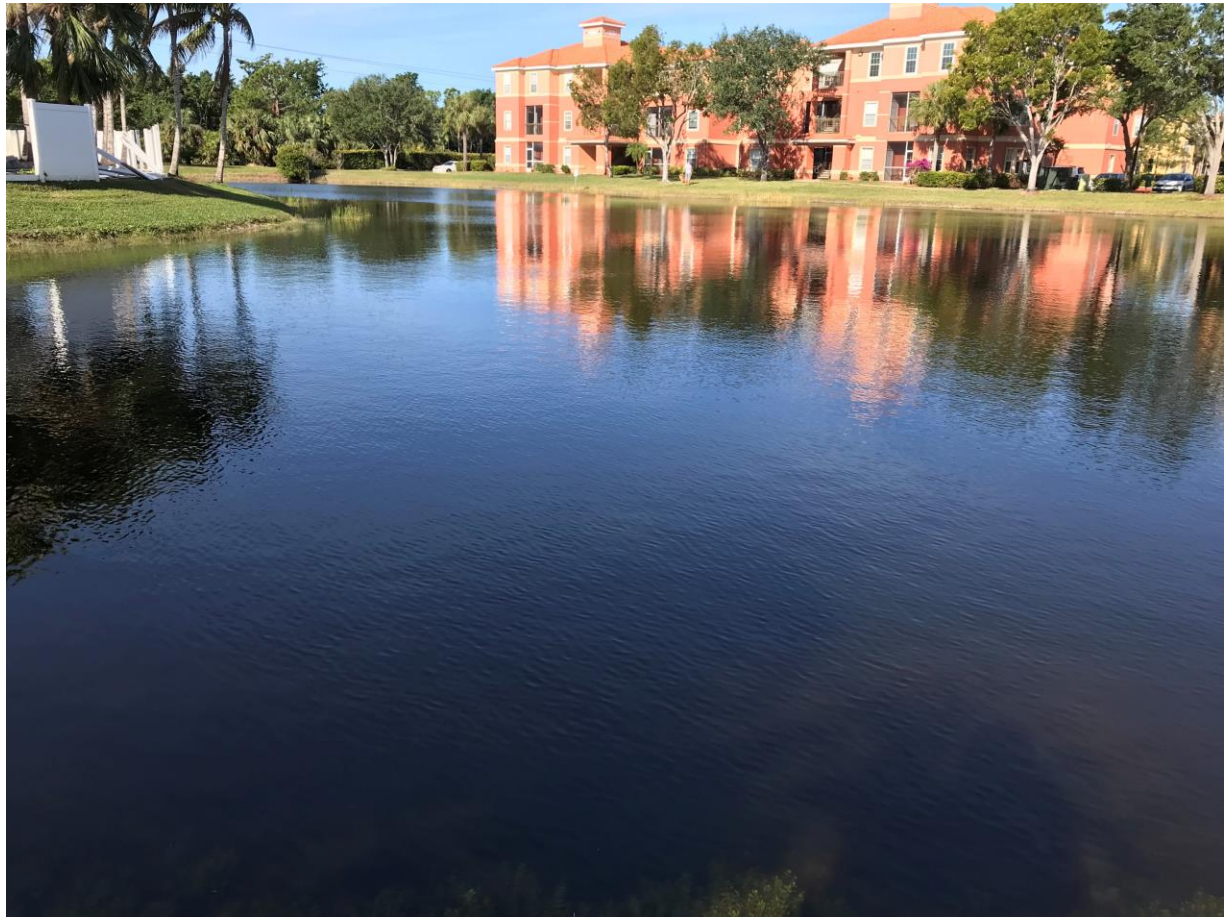
C3 – Longlake. Looks great. We were worried about the beneficial spikerush being thinned as we got bulrush back under control. Apparently, no matter what, in this lake, the spikerush always comes back thick.



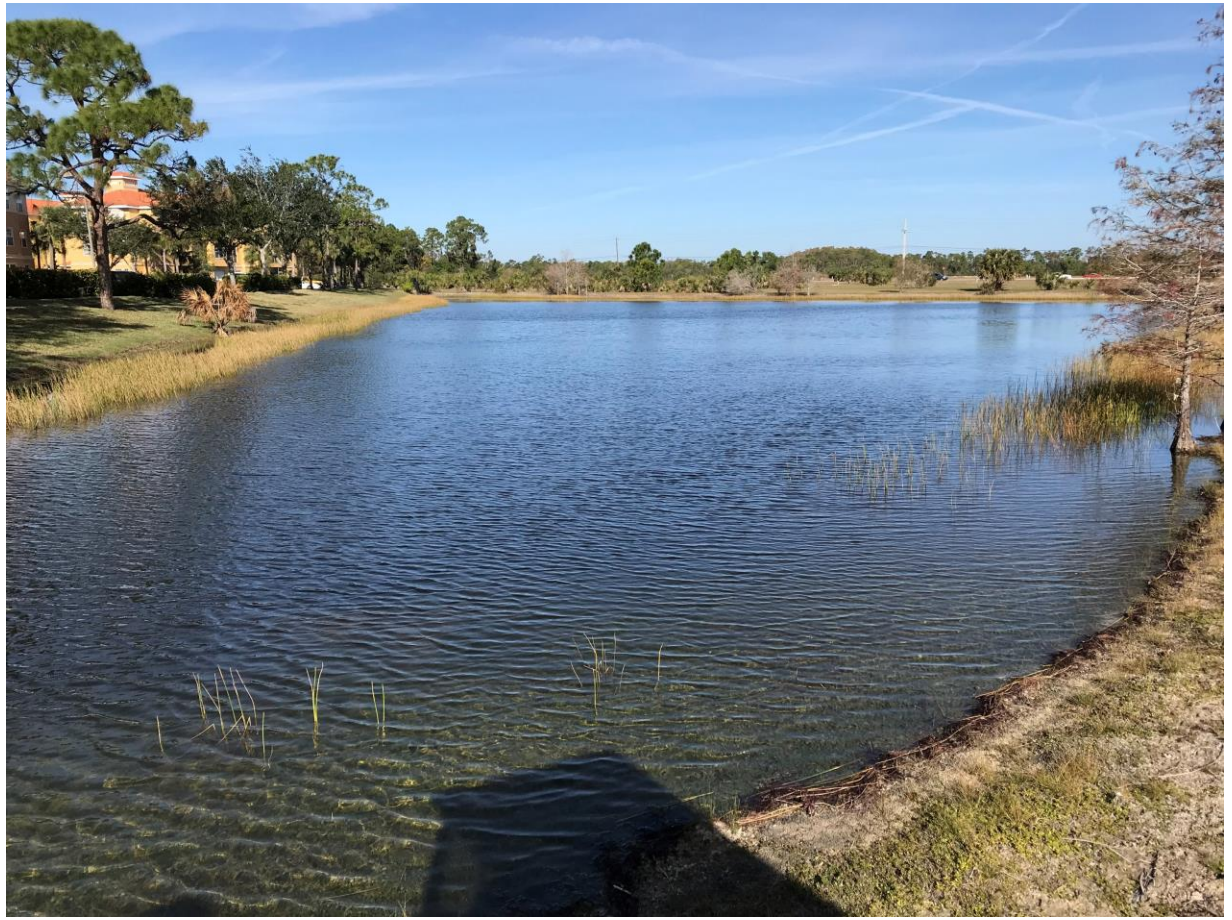
C4 – Longlake/ Heron Marsh. Lake looks great other than minor algae



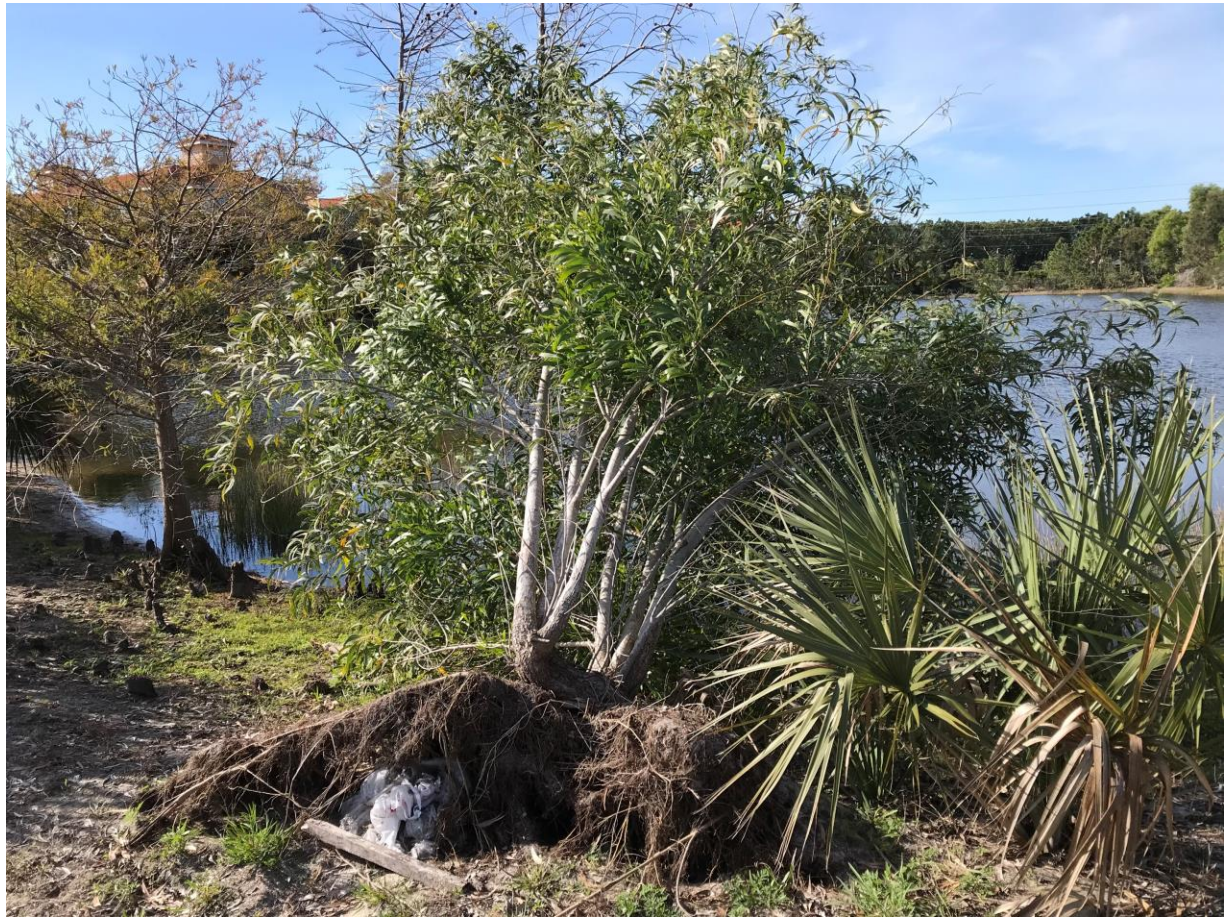
E16 – Villas of Pelican Landing. Looks good other than dying bladderwort fragments. This is a lake where beneficial spikerush did not recover as well from clean up activities



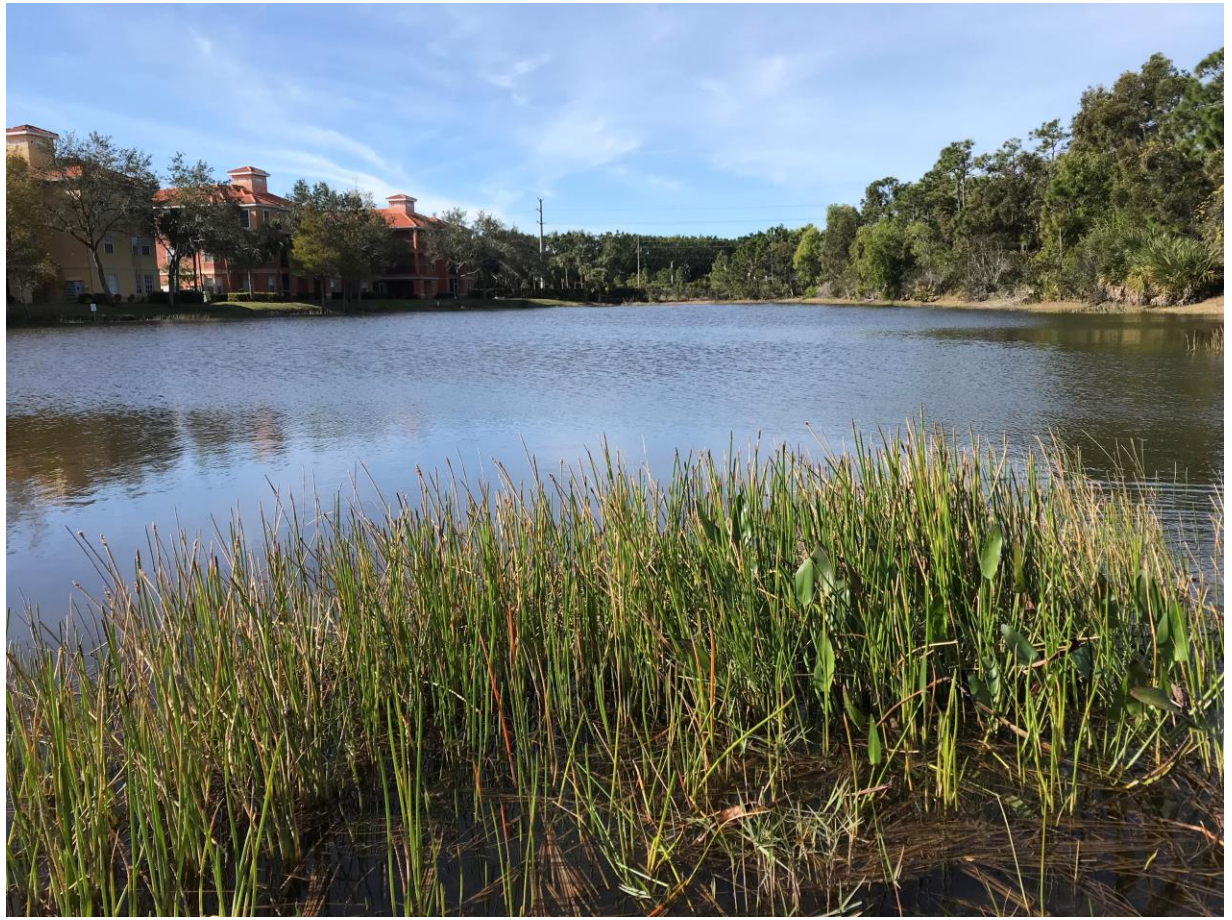
E18 – Villas of Pelican Landing. Looks great, but a lot of chara on the bottom. Needs attention



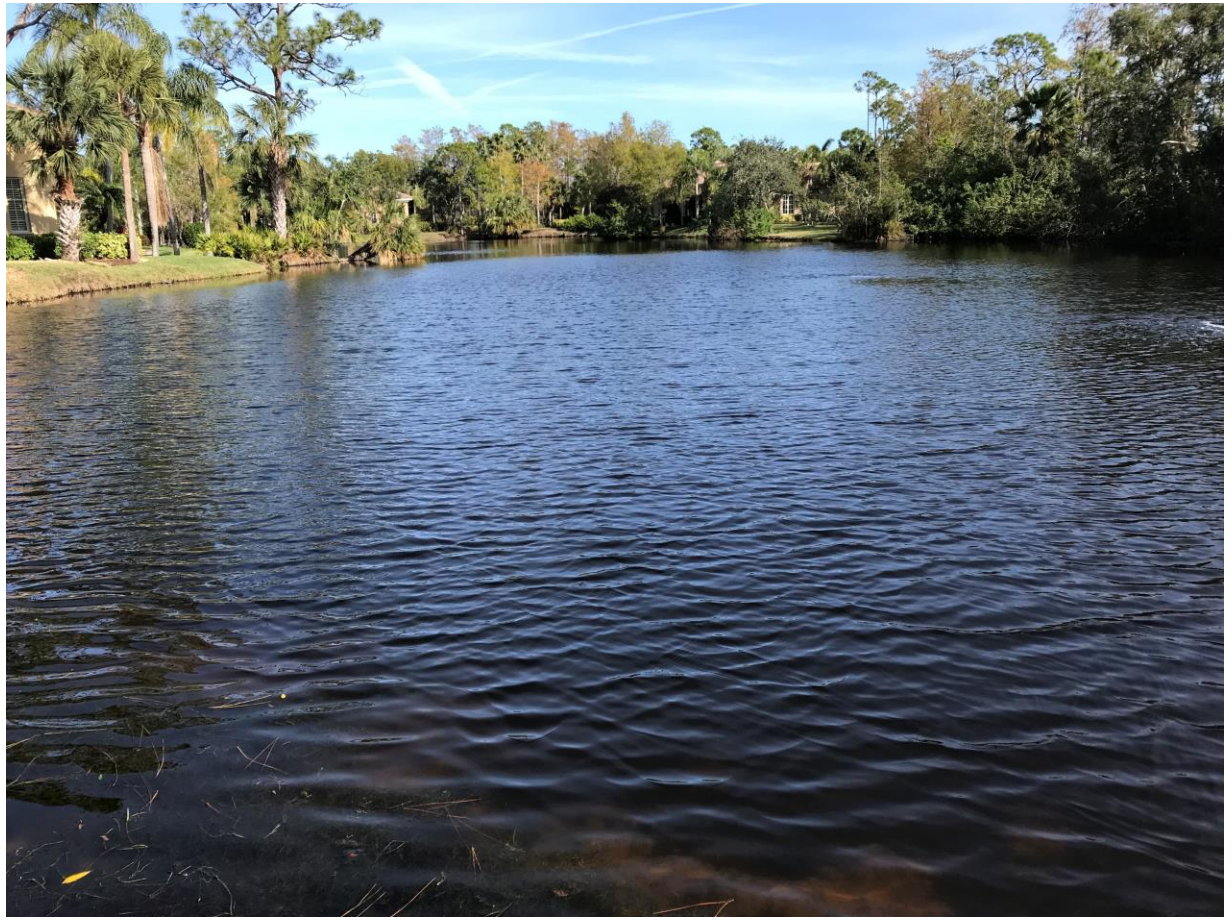
E14 – Villas of Pelican Landing. Earleaf Acacia tree. Not in our area, but hurricane damage is making it fall towards the lake. Exotic tree anyway, should be removed.



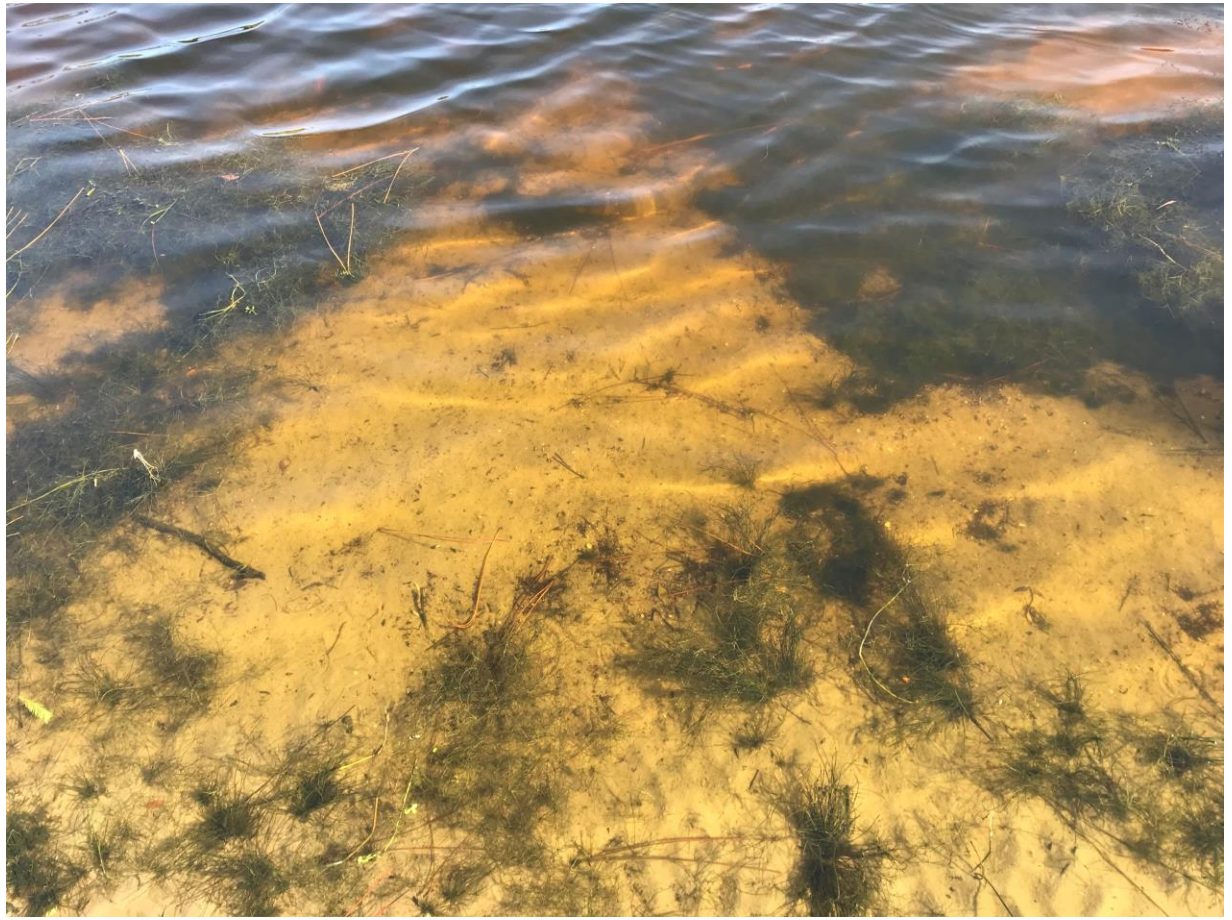
E14 – Villas of Pelican Landing. Looks good



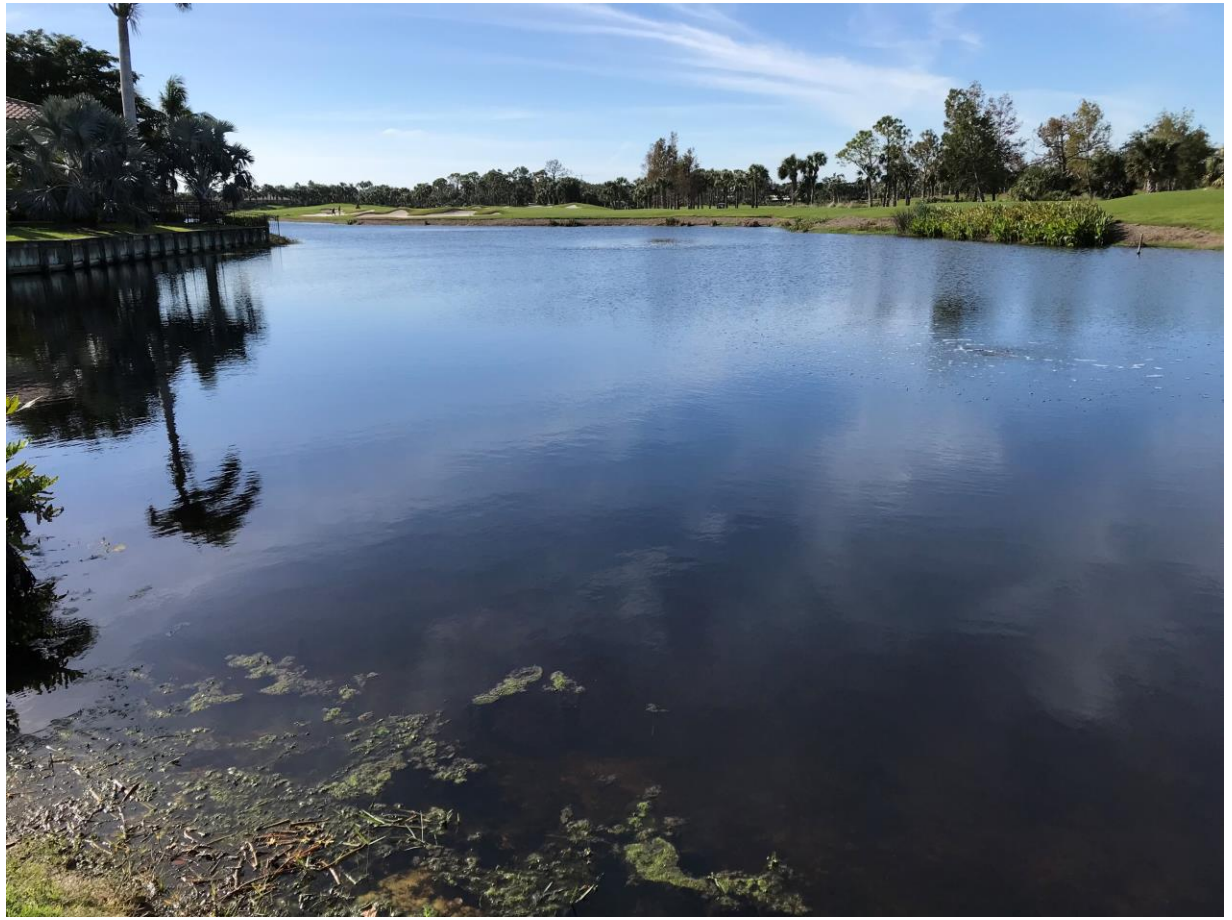
F-16 Las Palmas. Looks visibly good, although there is still significant slender spikerush that is dying, but not gone.



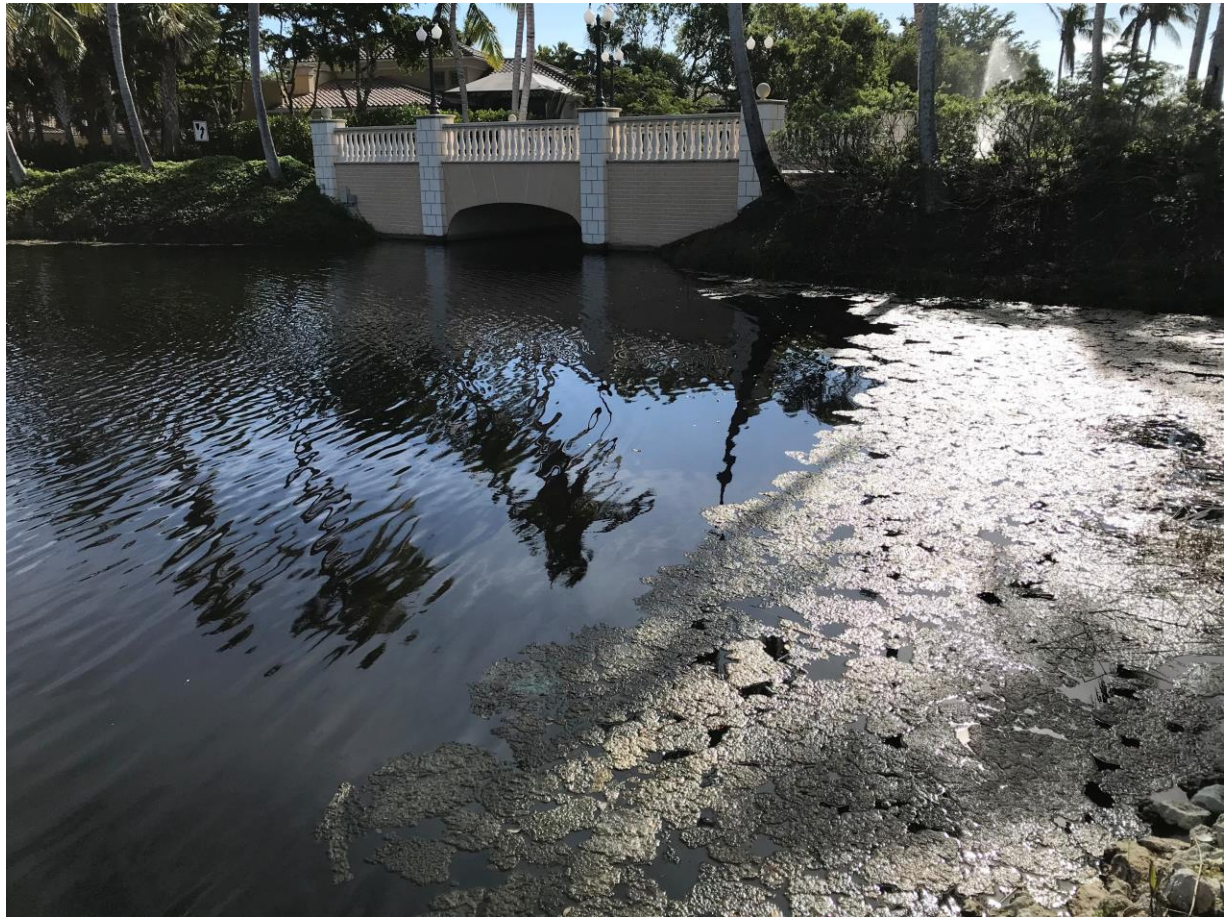
Close up of F16. Our applicators have always called this swamp lake because it is shallow, and very dark bottomed, presumably from muck. The dark areas in this picture are dying spikerush. The soil is typically black in this lake. Seeing this sand after applying muck pellets was a shock.



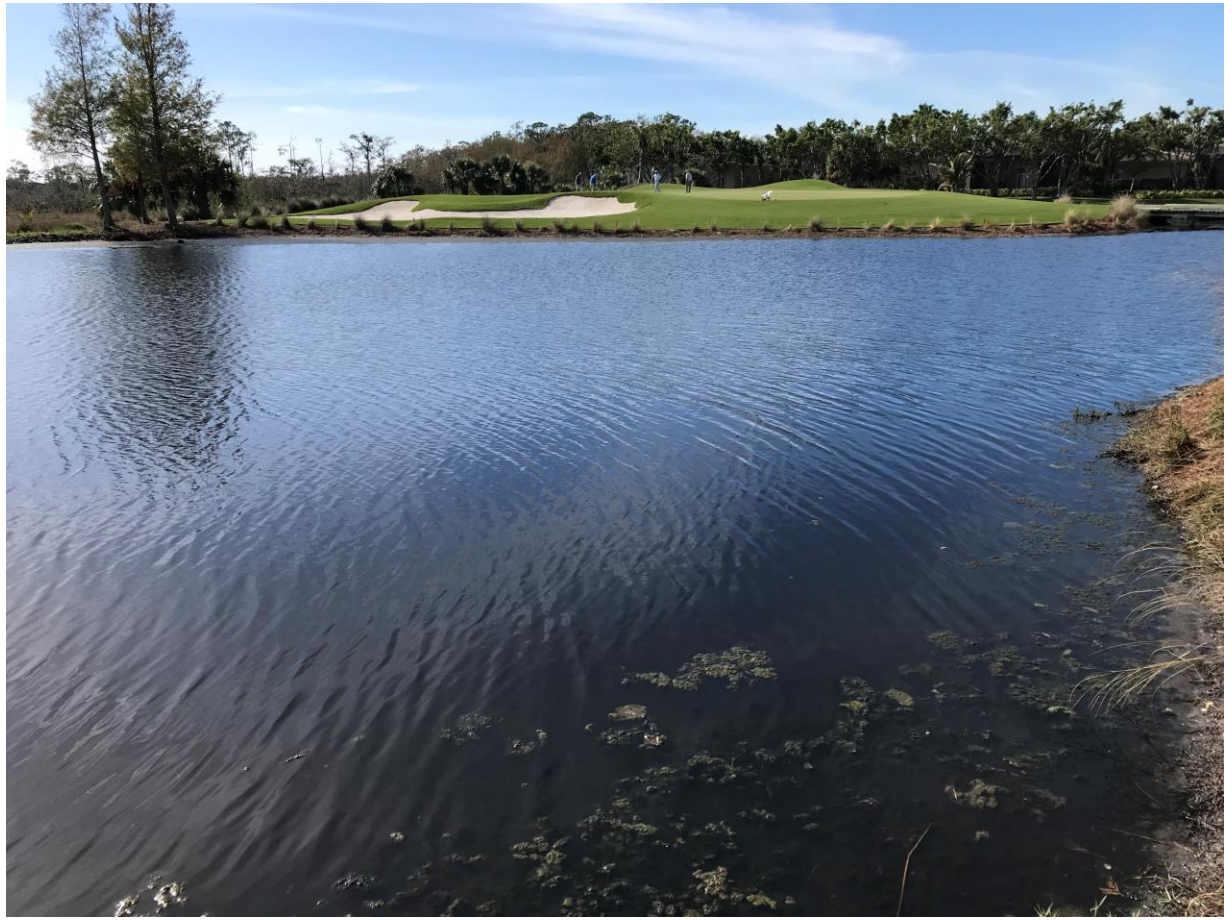
E7 – Colony Clubhouse. Algae



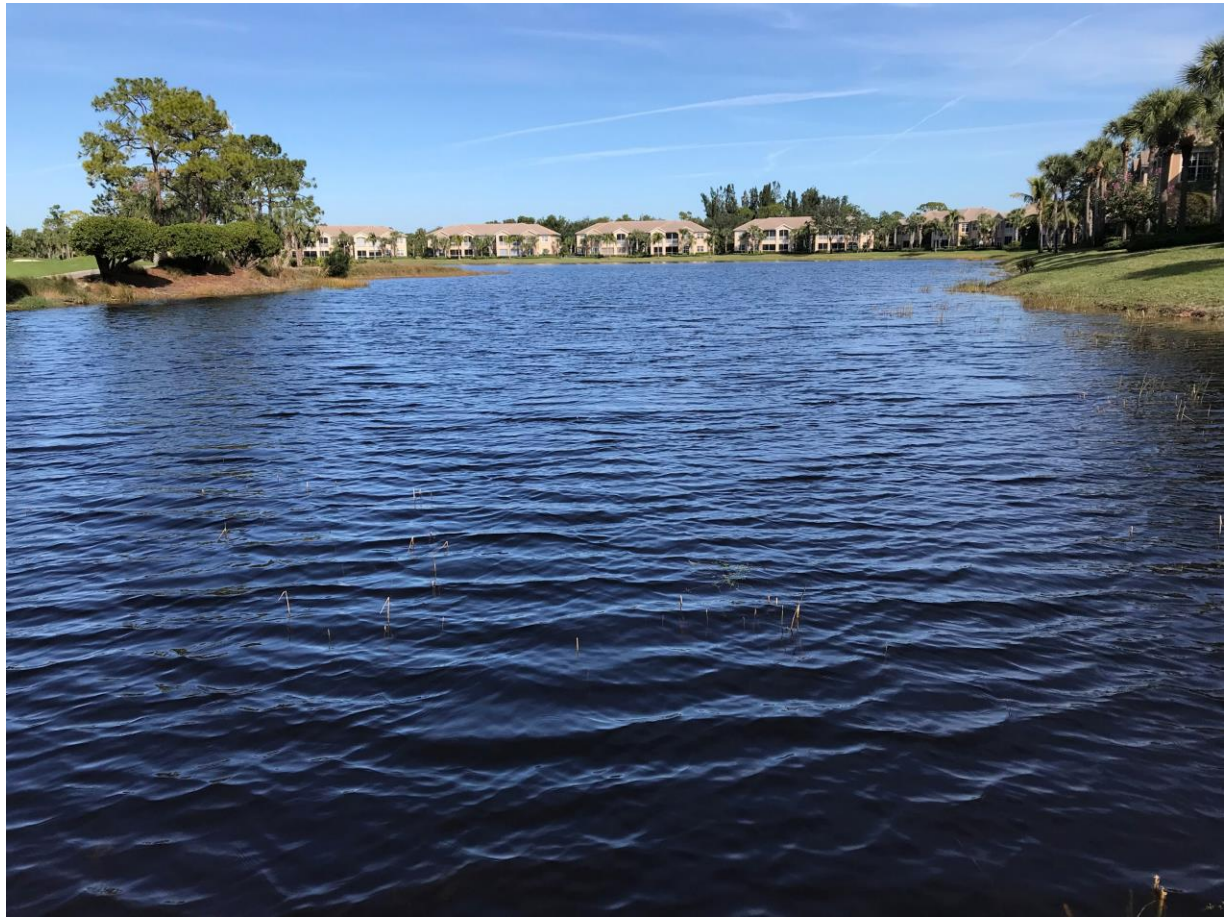
F1 – Las Palmas. Resistant algae blown up in one corner



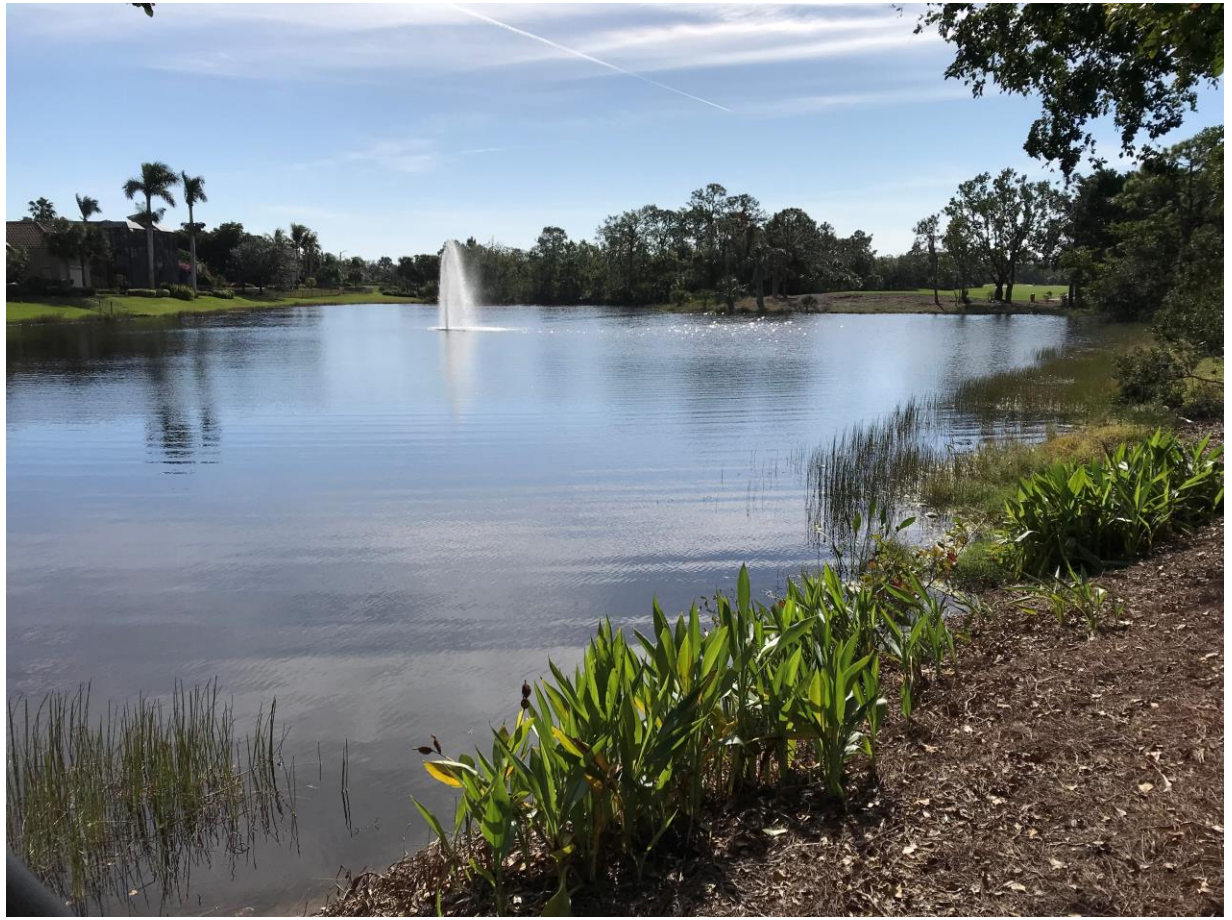
F6 – Las Palmas. This lake has been a problem for algae. The coves on the east end are very shallow, and golf course reconstruction has limited our access.



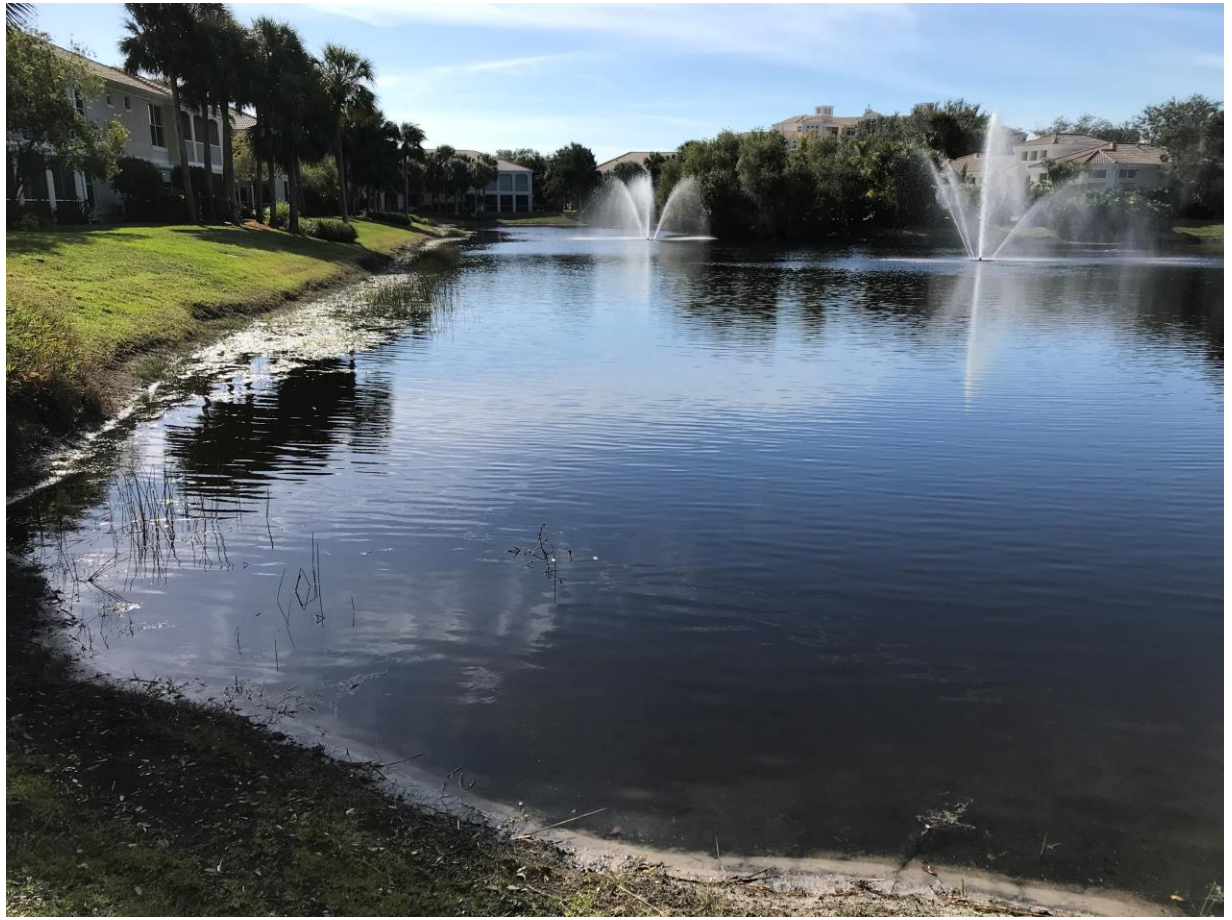
F8 – Merano. This lake had significant bacopa which was discussed last month. Looks pretty good with only limited bacopa issues



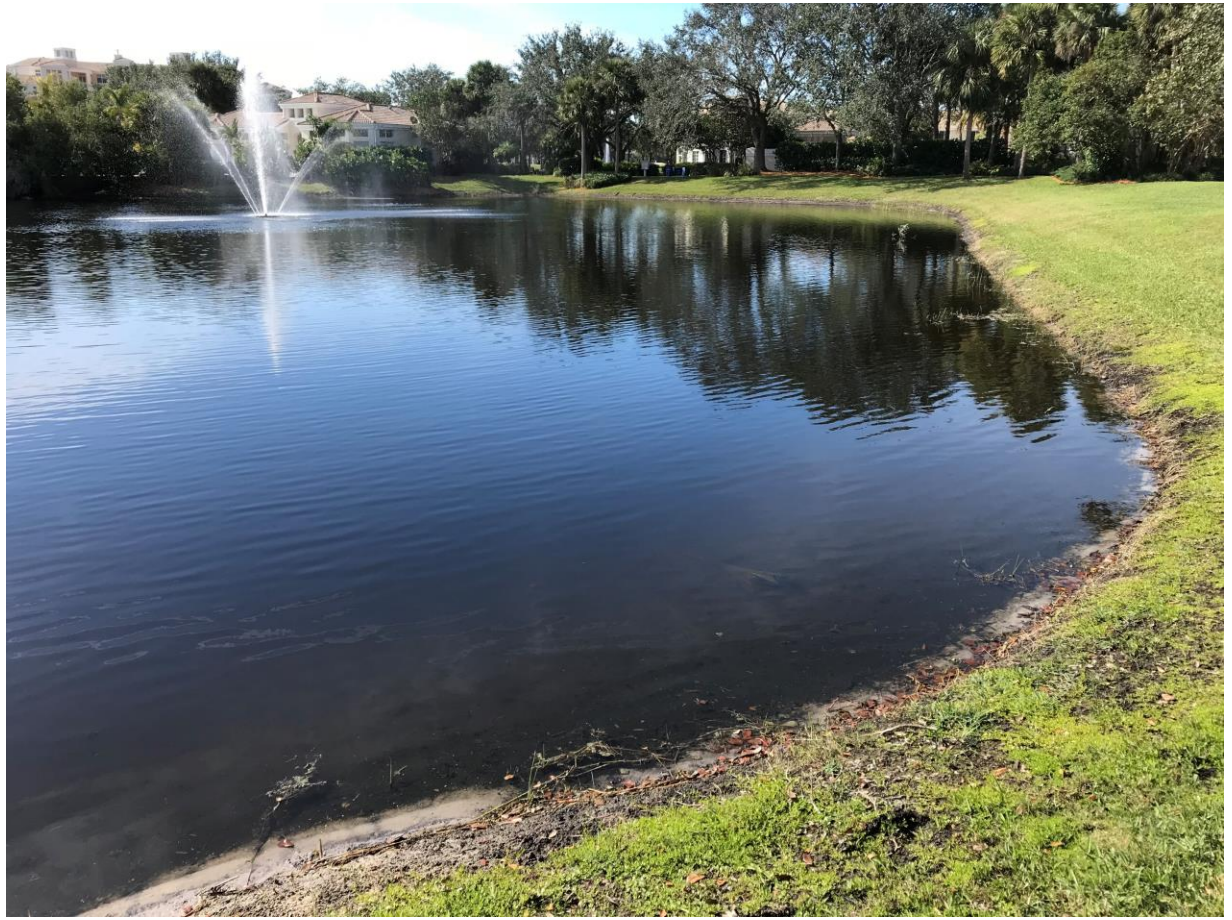
F4 – Tuscany Isle. Some torpedograss is present



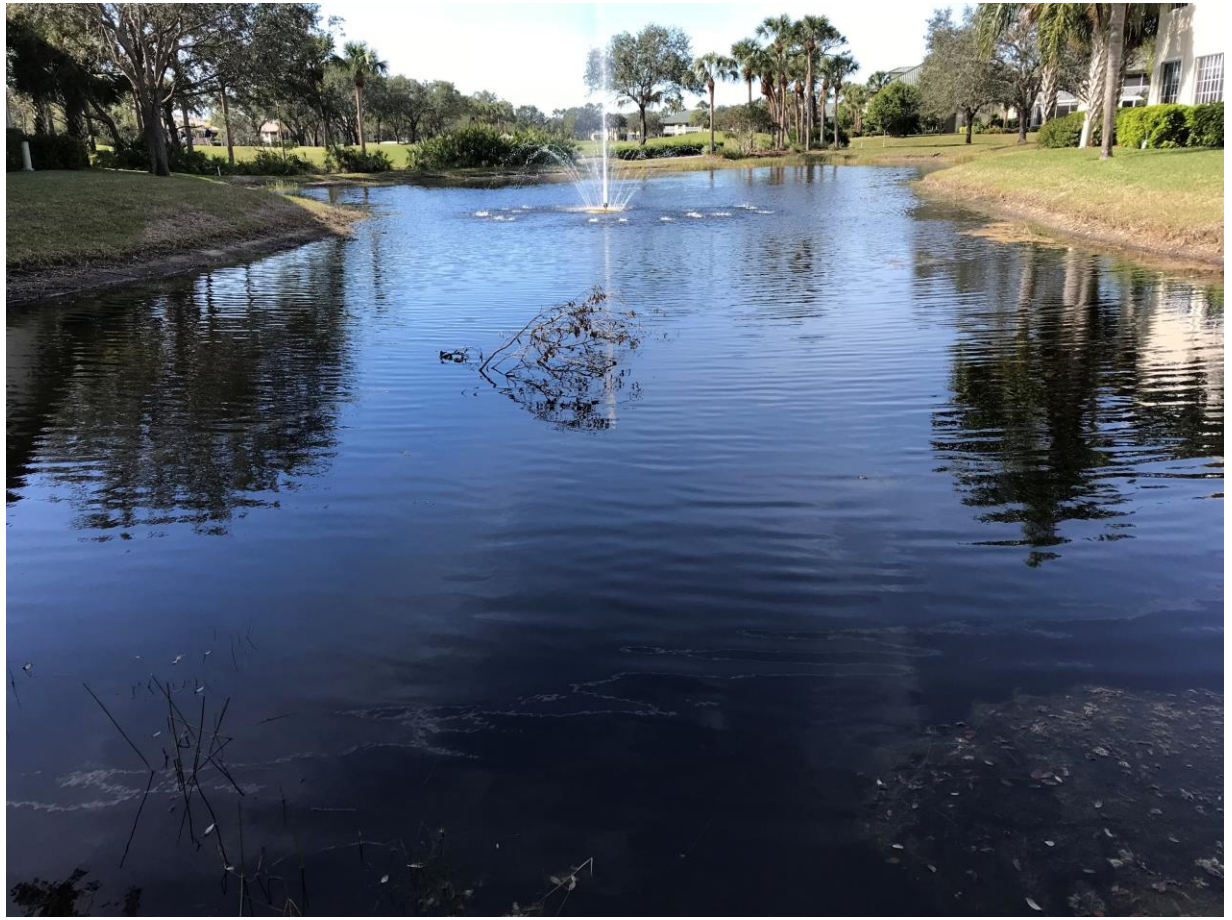
E5 – Sandpiper Isle. This lake has been frustrating lately. This lake was a major algae producer years ago. We fixed it for a long time with phoslock treatment. It has become a problem again. We use littoral plants to minimize nutrient in theory. Some times, algae seems to associate with the littoral plants. In this lake, areas with no plants look good, but there is a decent amount of algae around littoral plants



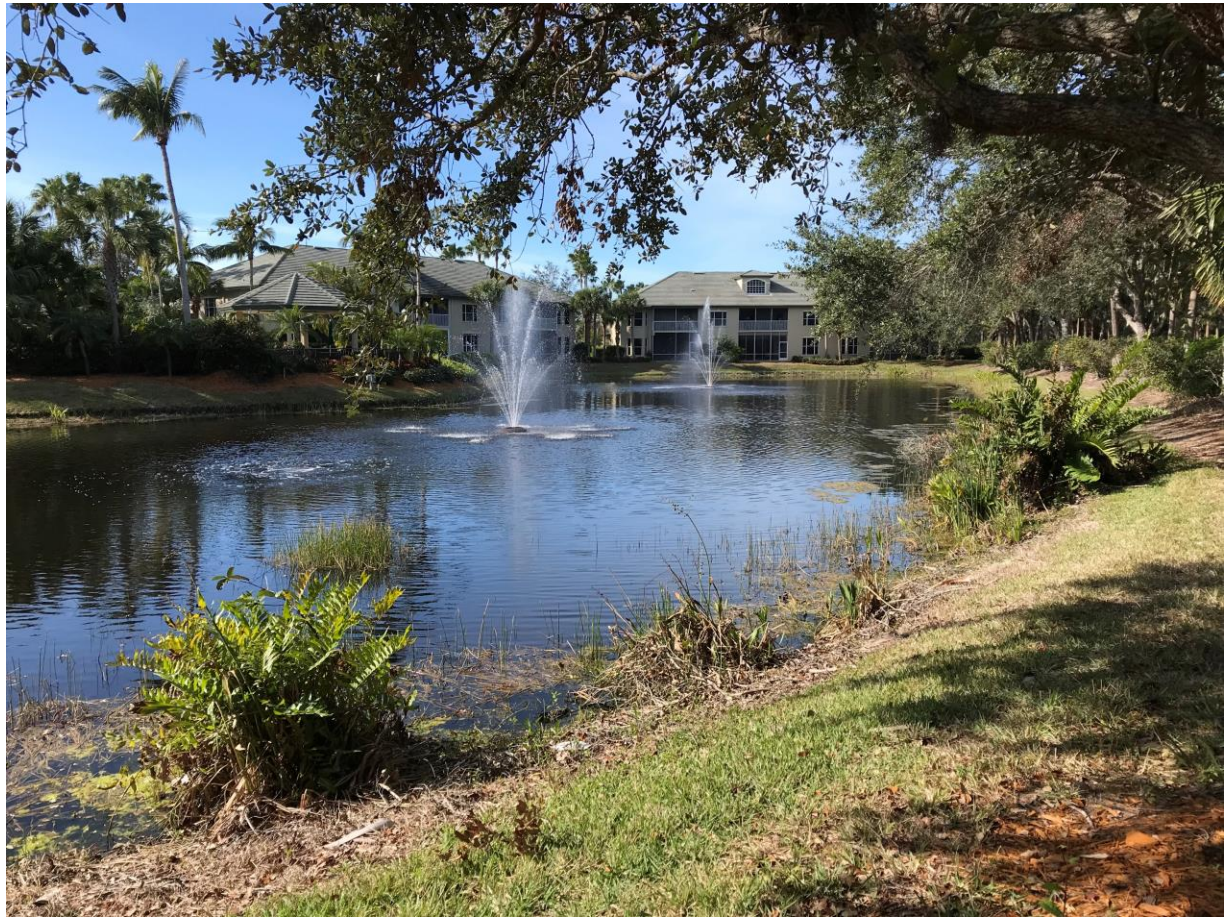
E5 from same photo point, looking other direction. No plants, clean look.



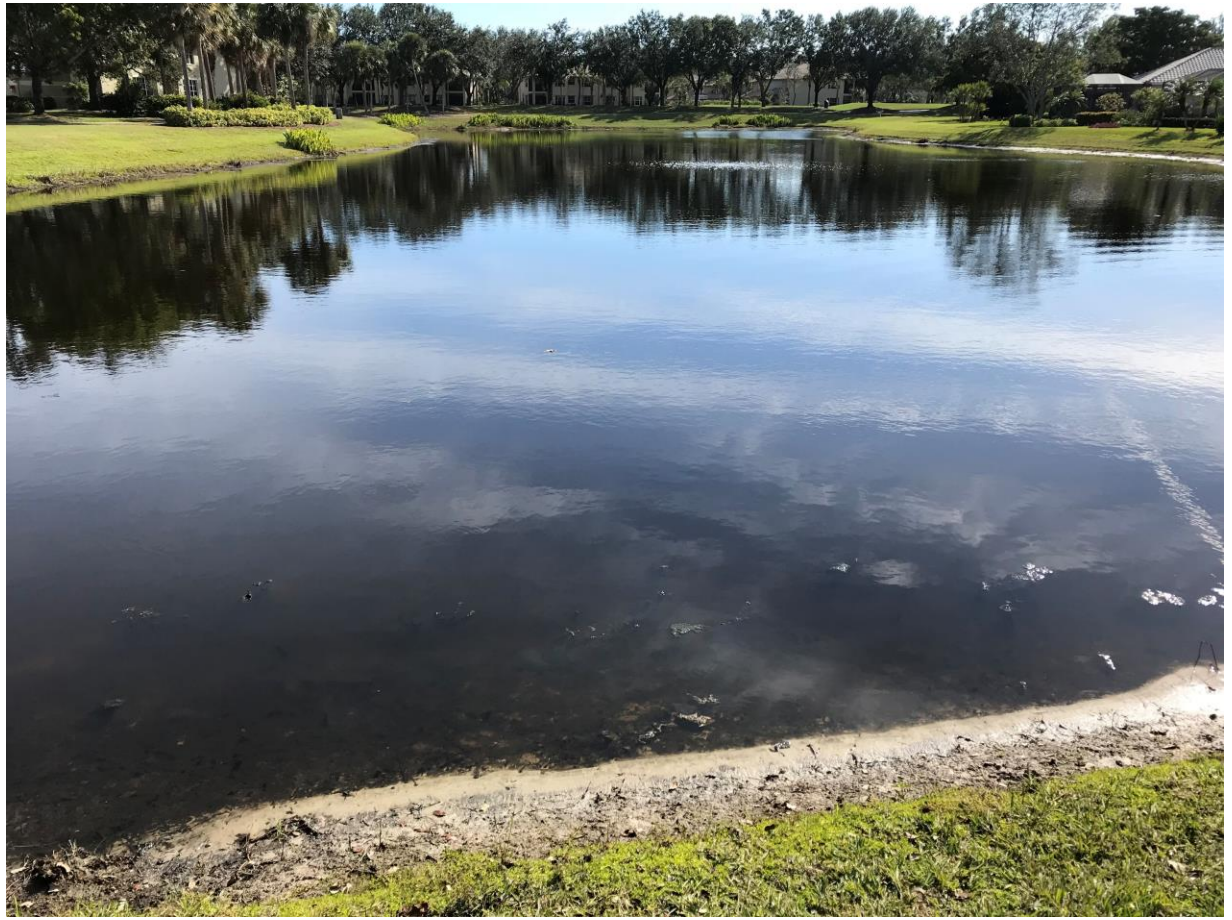
E4 – Sandpiper Isle/ Palm Colony. Dying bladderwort



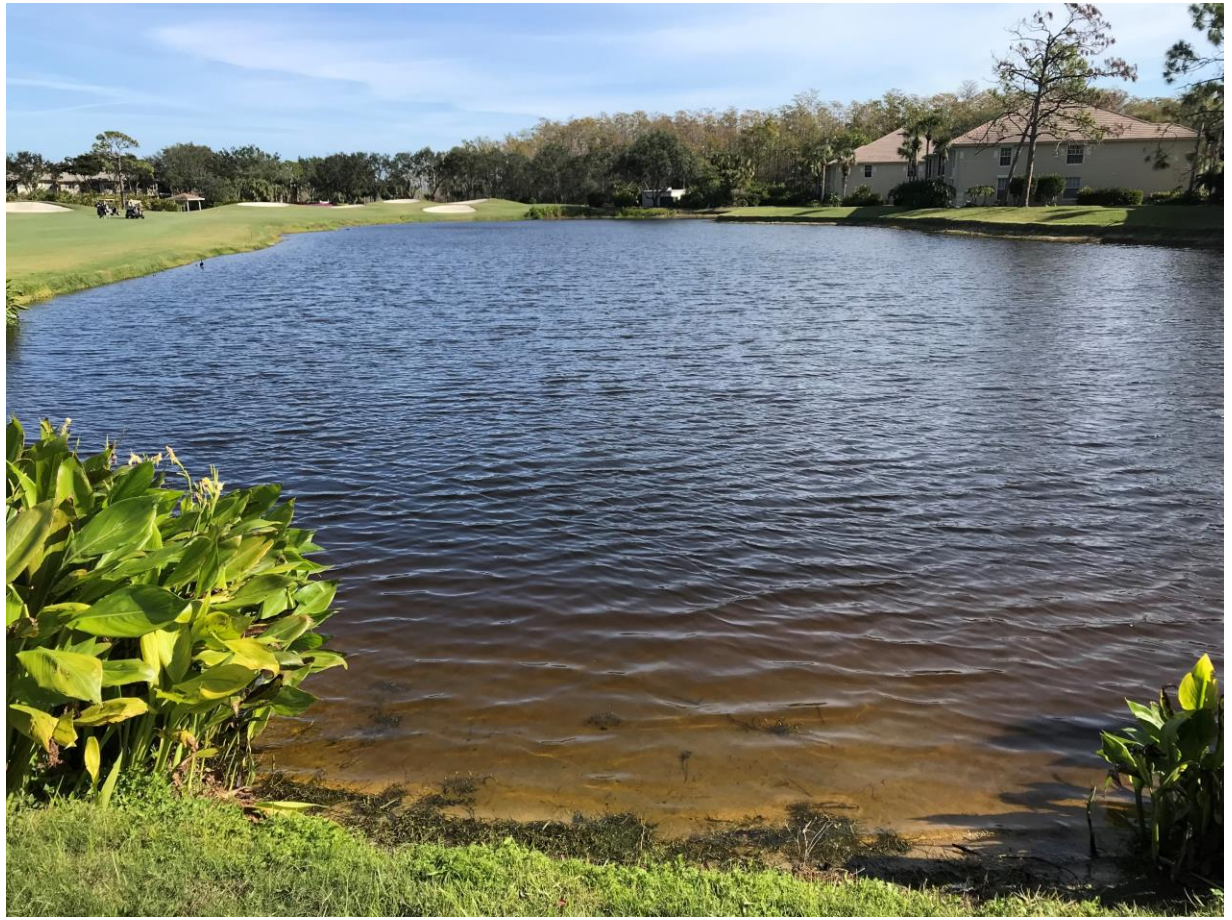
E2 – Palm Colony. Slender Spikerush, Bladderwort and algae



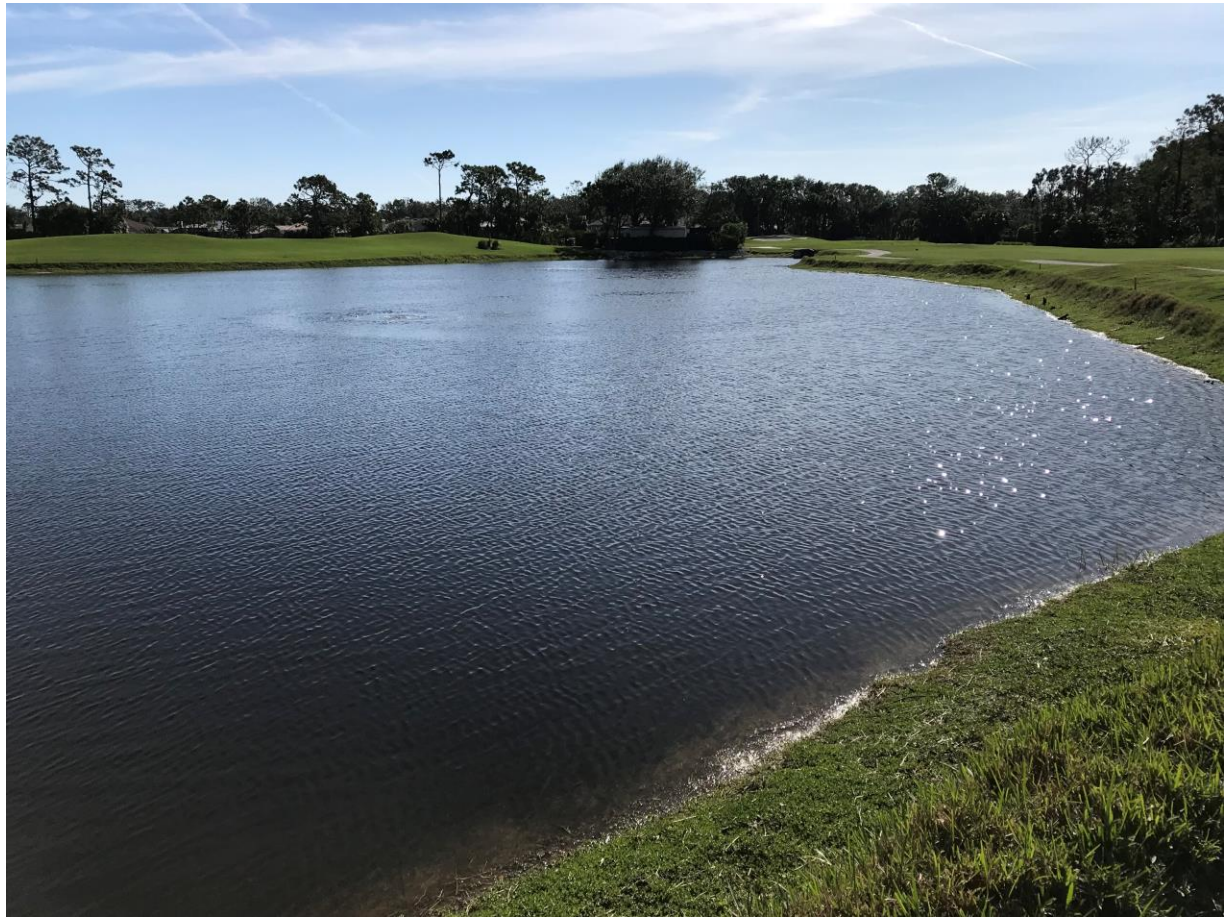
A18 – Capri. Resistant algae



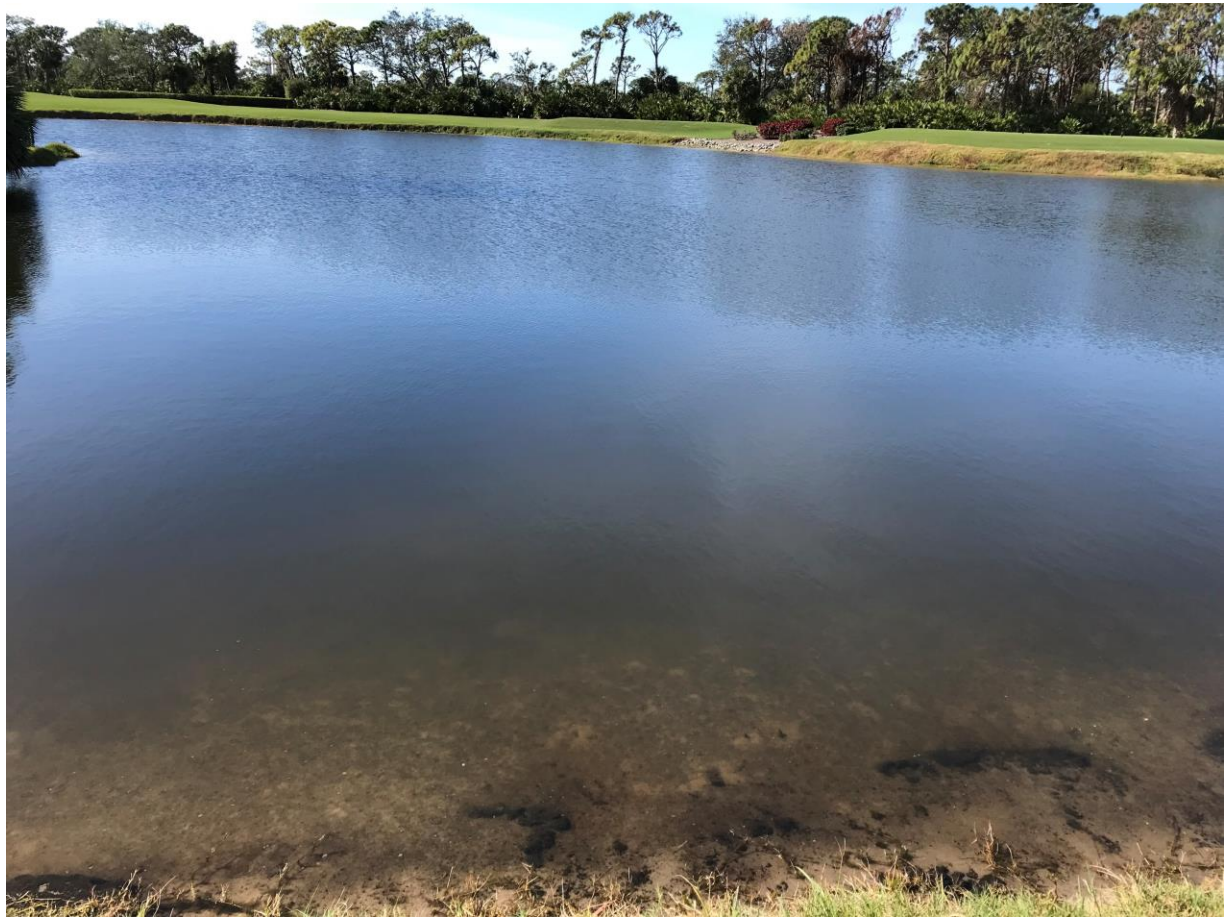
A6 – Sawgrass. Looks good



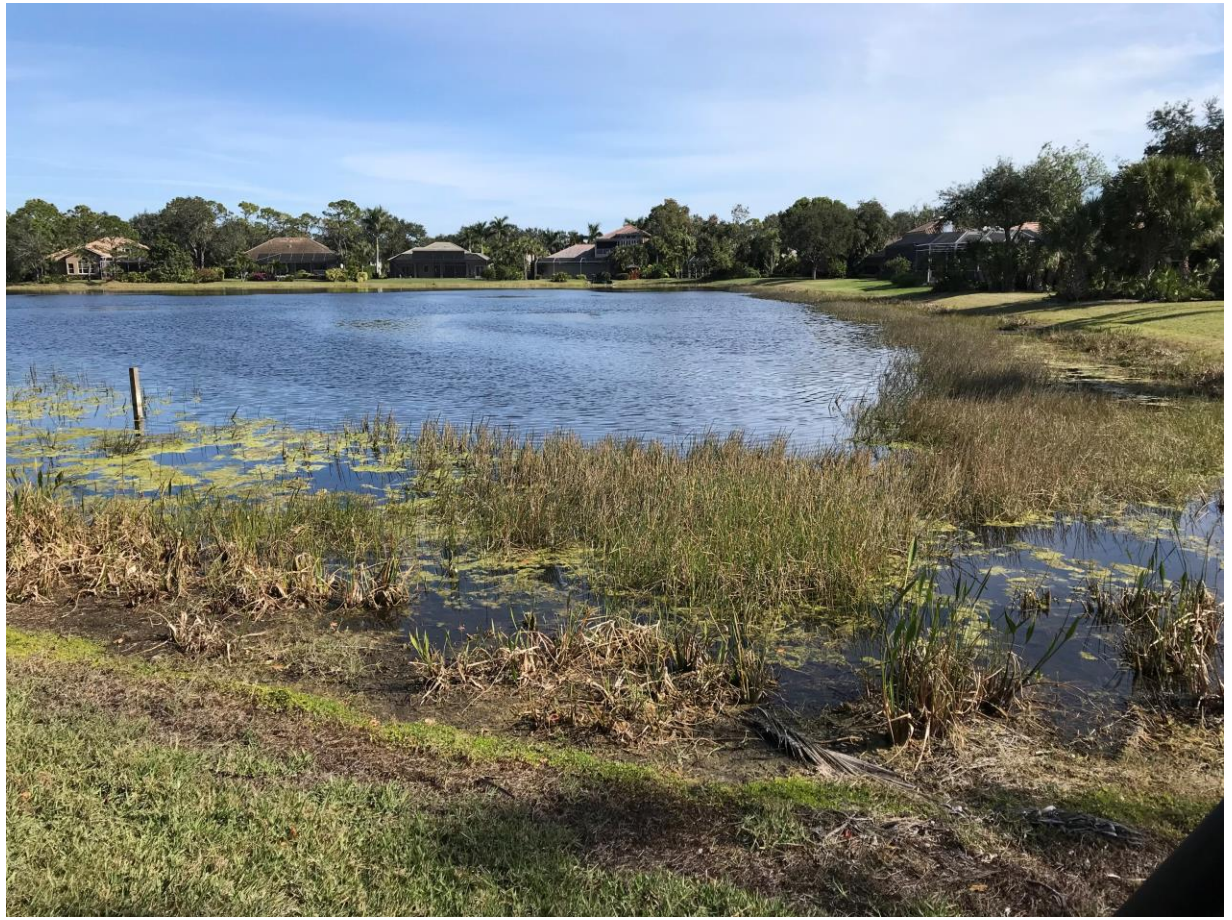
D7 – Pelicans Nest irrigation lake. This lake used to be one of the worst lakes in the community. Although there is slender spikerush in the lake, the grass carp keep it in check. The lake looks great



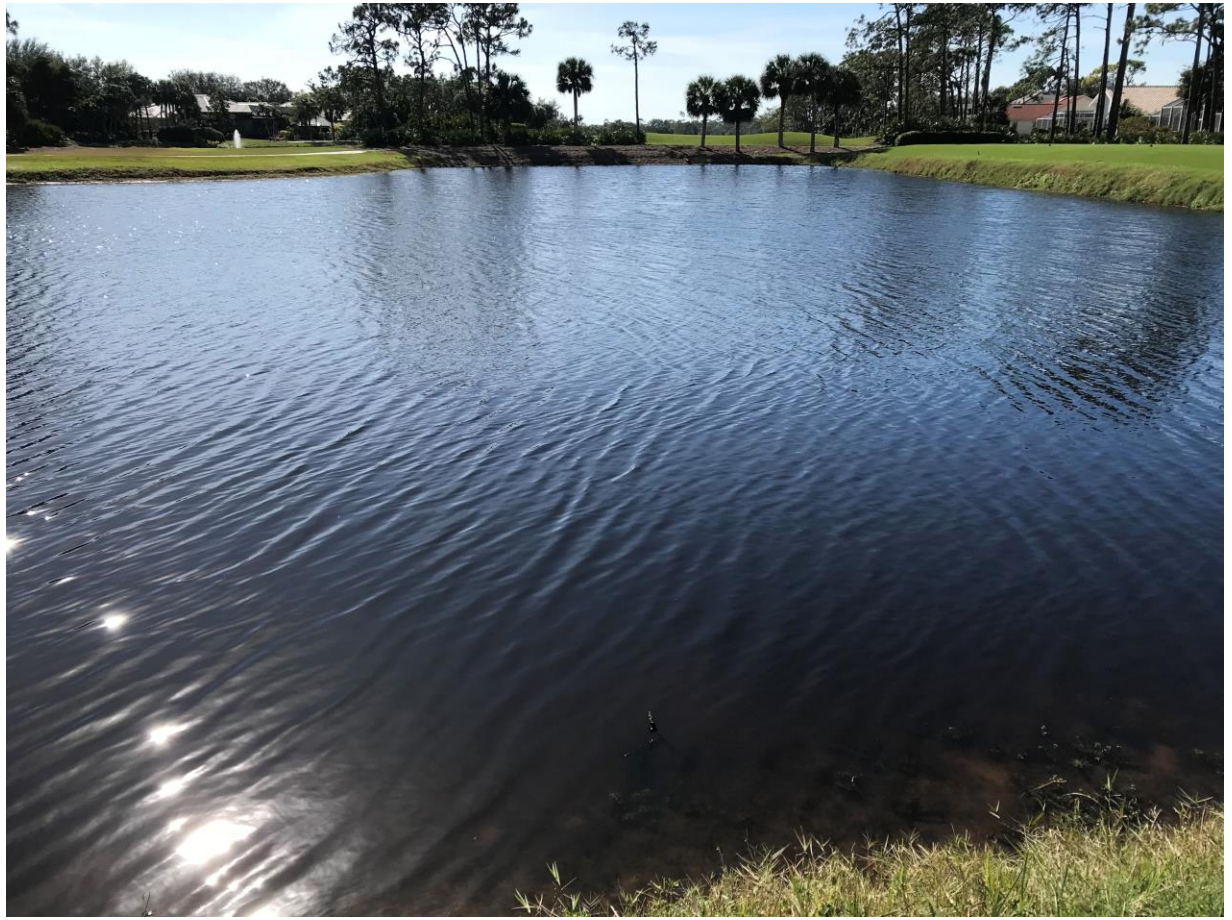
D8 – Pelican Nest golf course recharge lake. The cleanest I have ever seen this lake. There is torpedograss adjacent to the wetland that needs attention



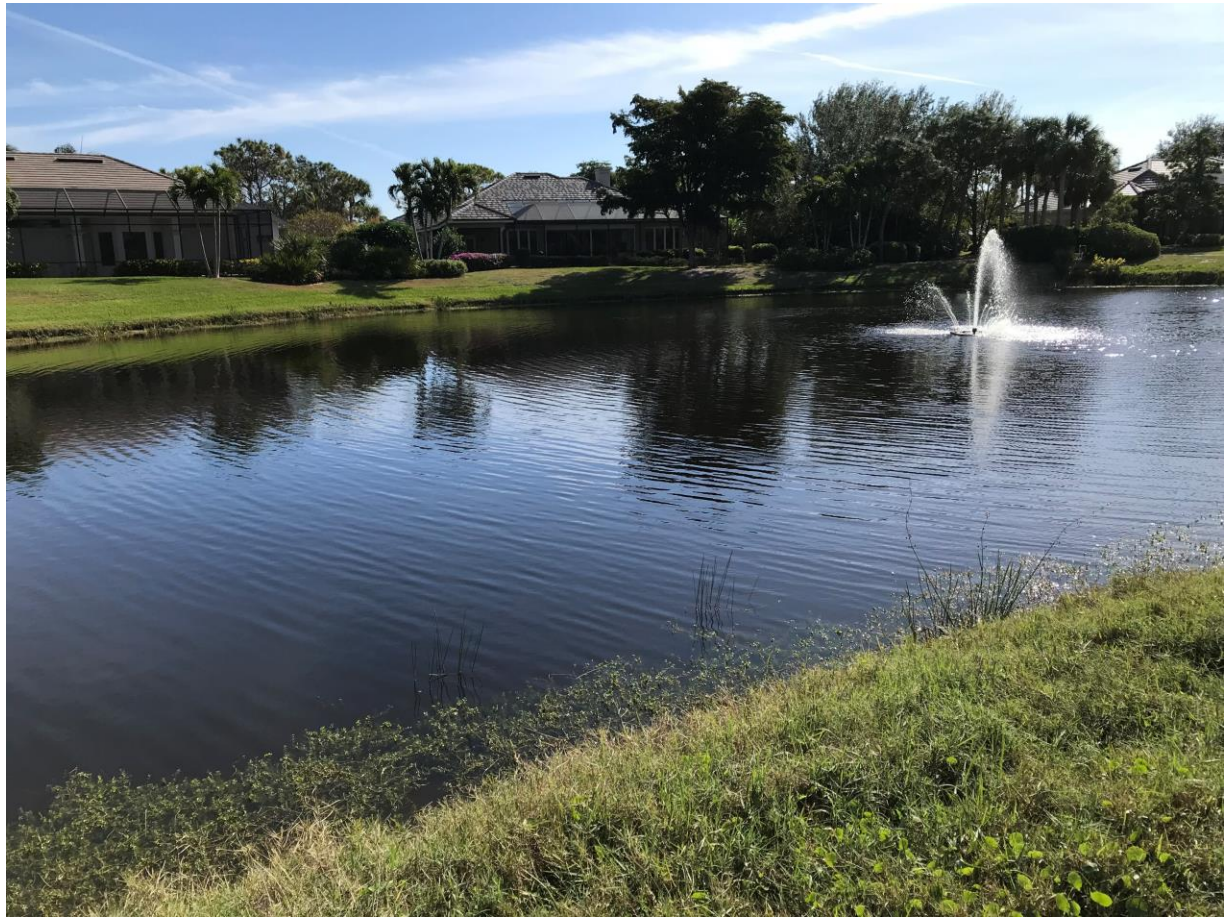
B2 – Lakemont. Algae



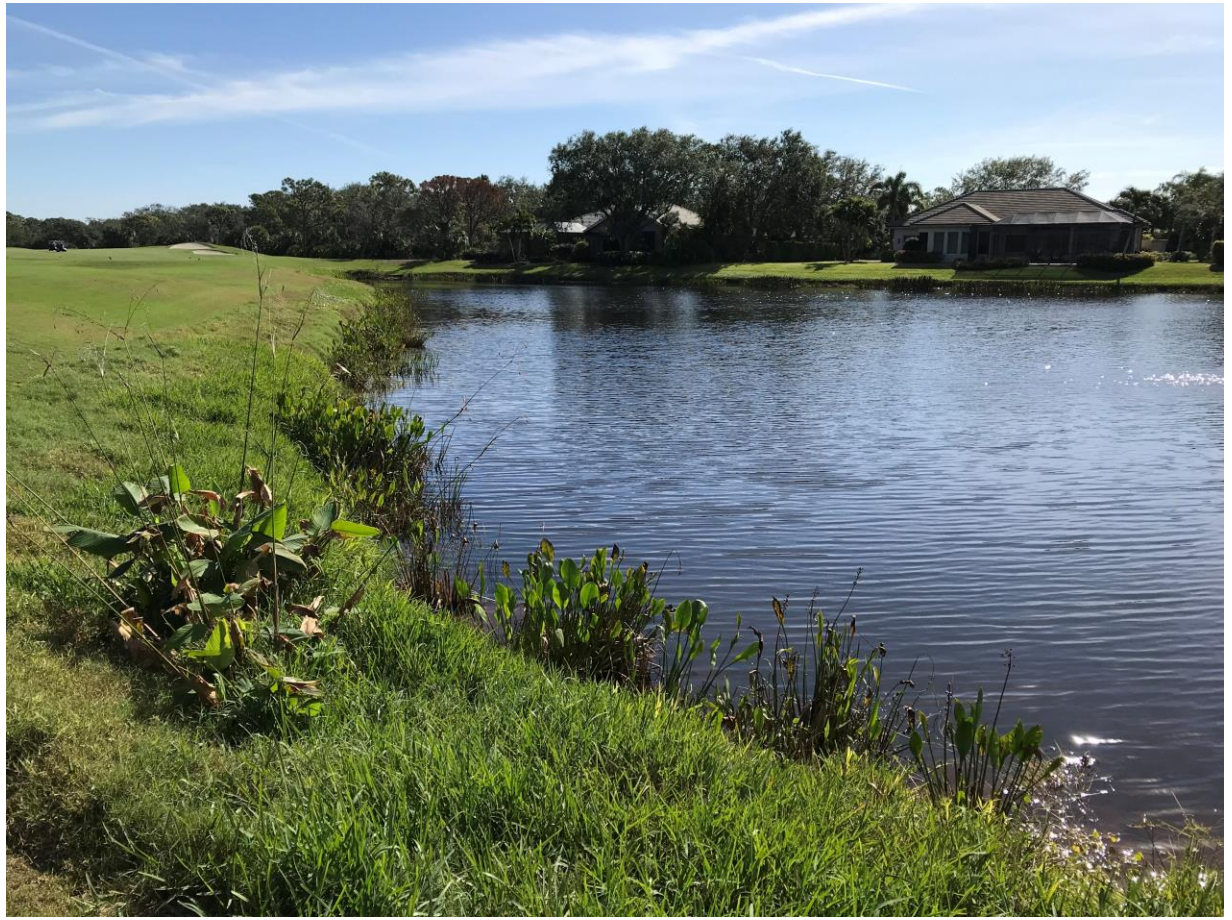
A10 – The Ridge. Looks good



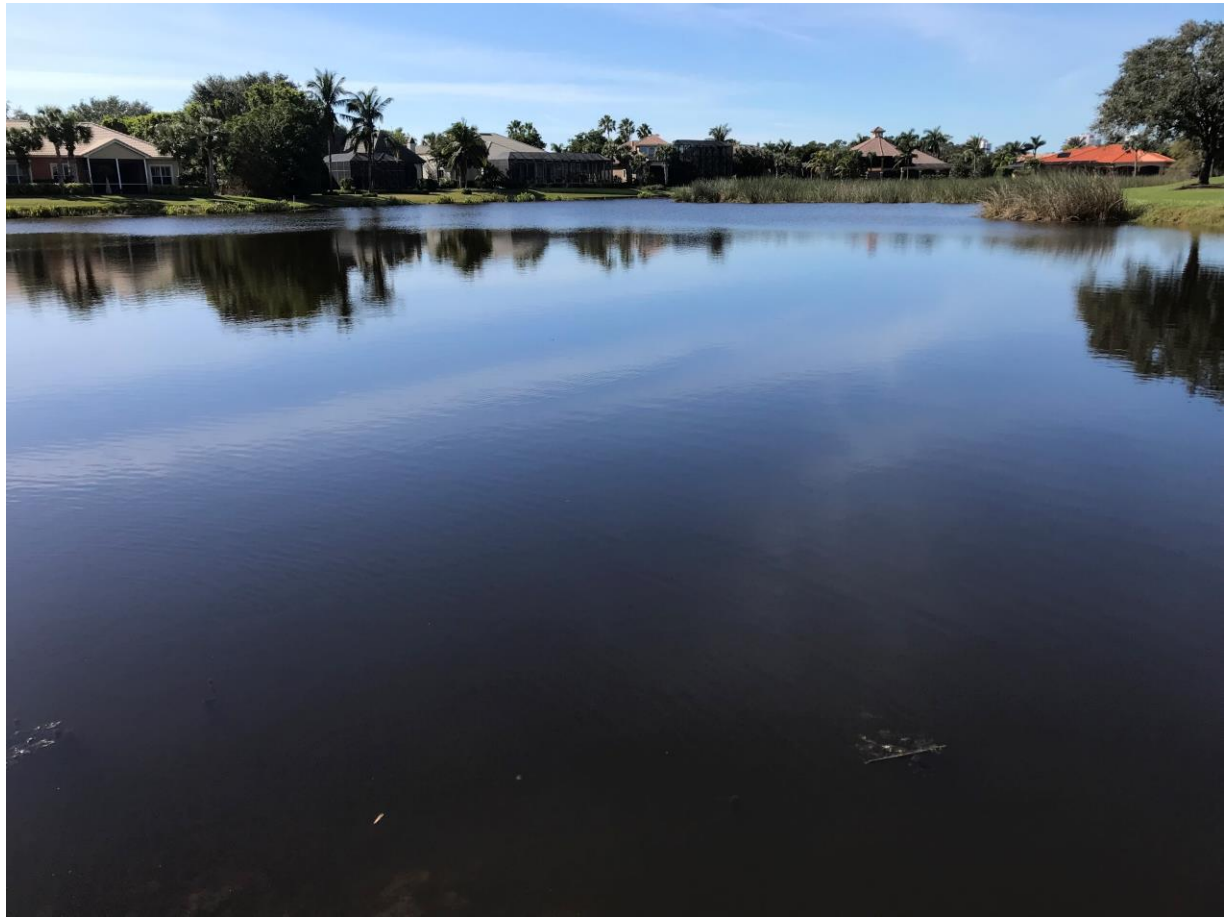
D10 – The Ridge. Looks good other than bacopa which we typically leave as a beneficial ground cover, but it is getting out of hand in this lake. Fountain has challenges.



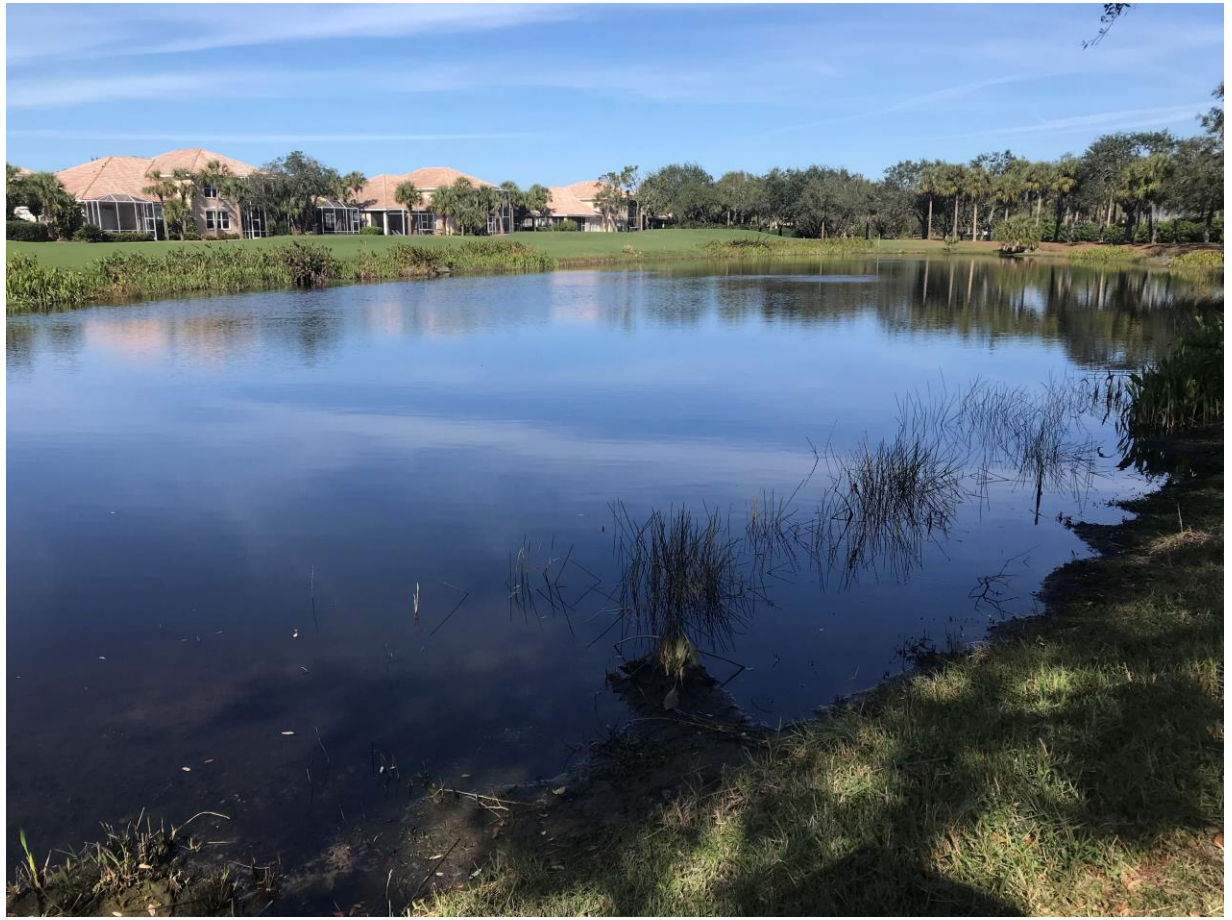
D11 – The Ridge. Looks good



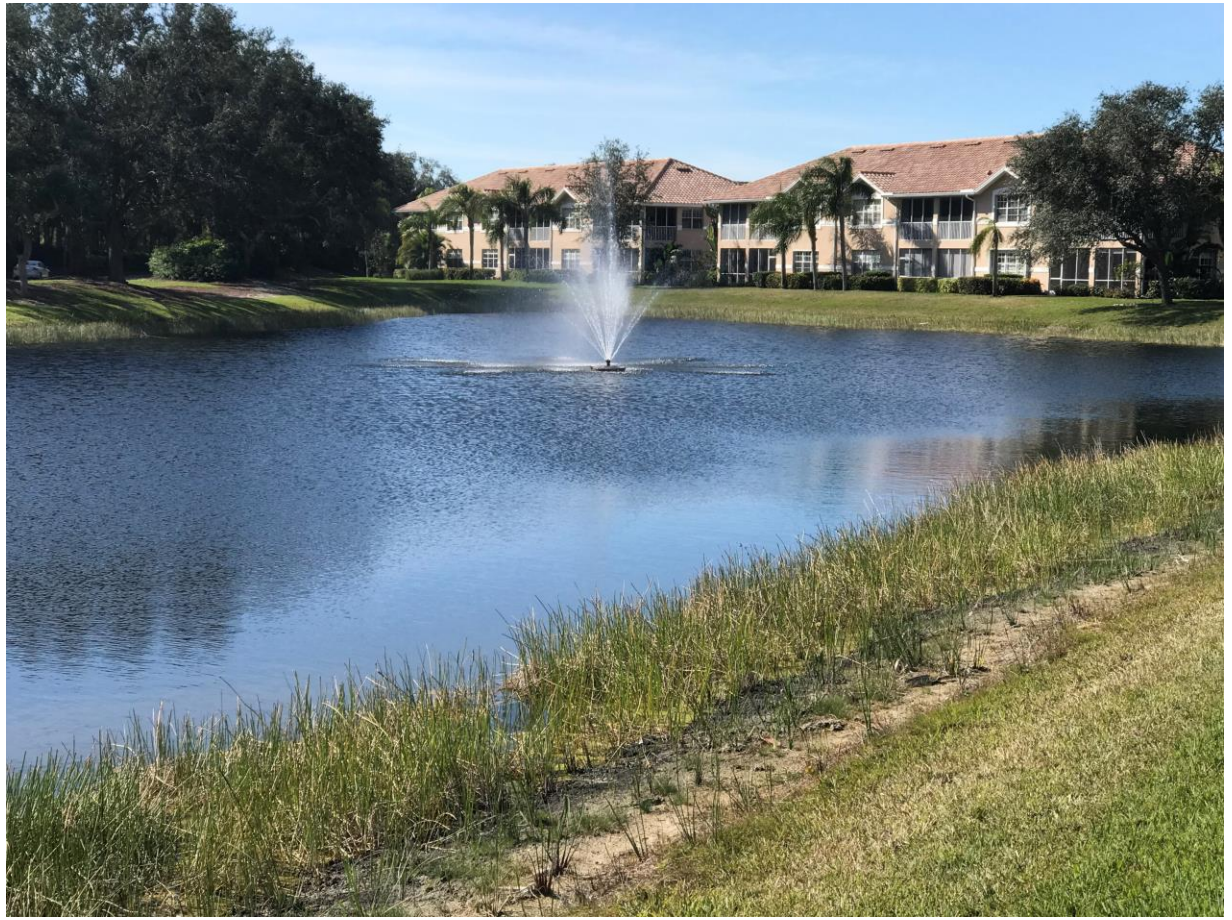
D8 – Baycreek. Some algae



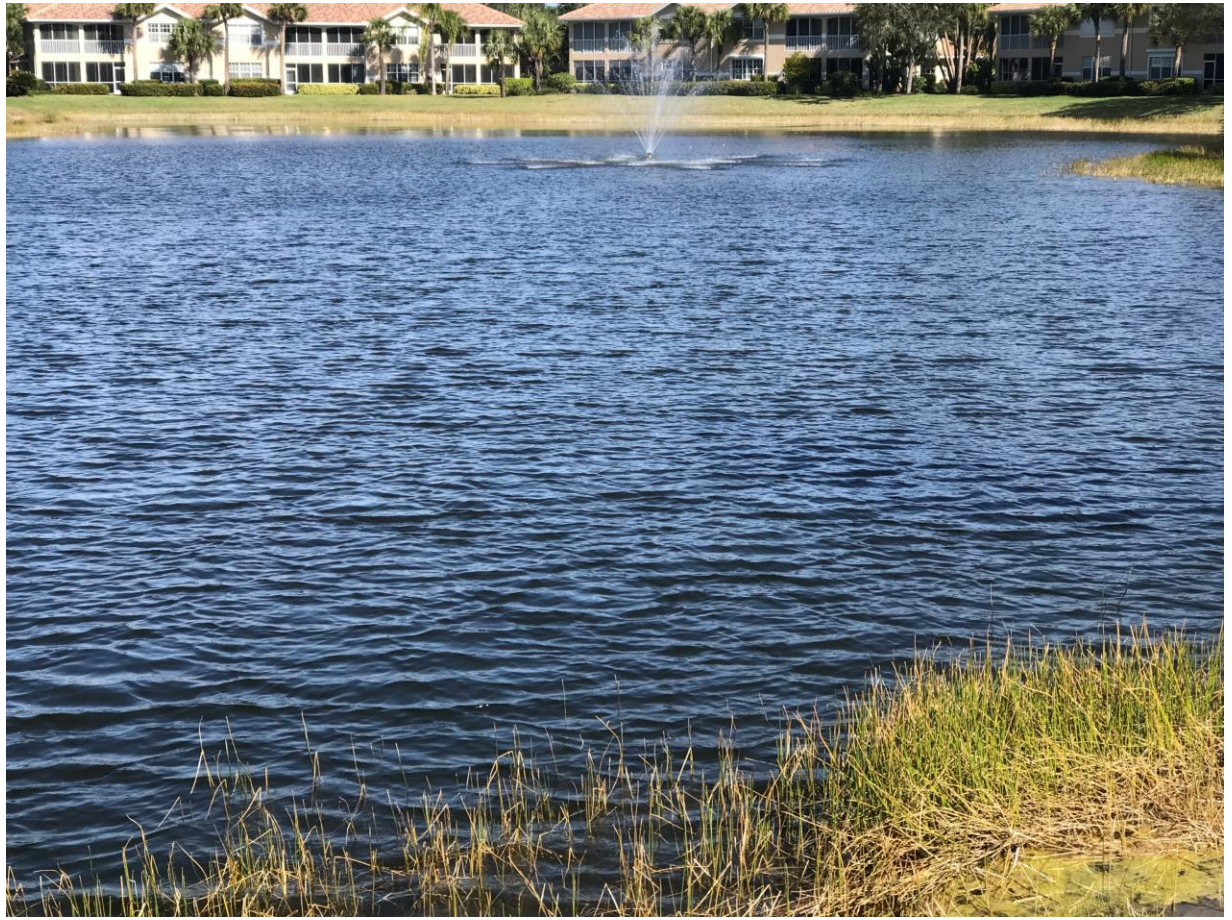
D5 – Baycrest. Looks good



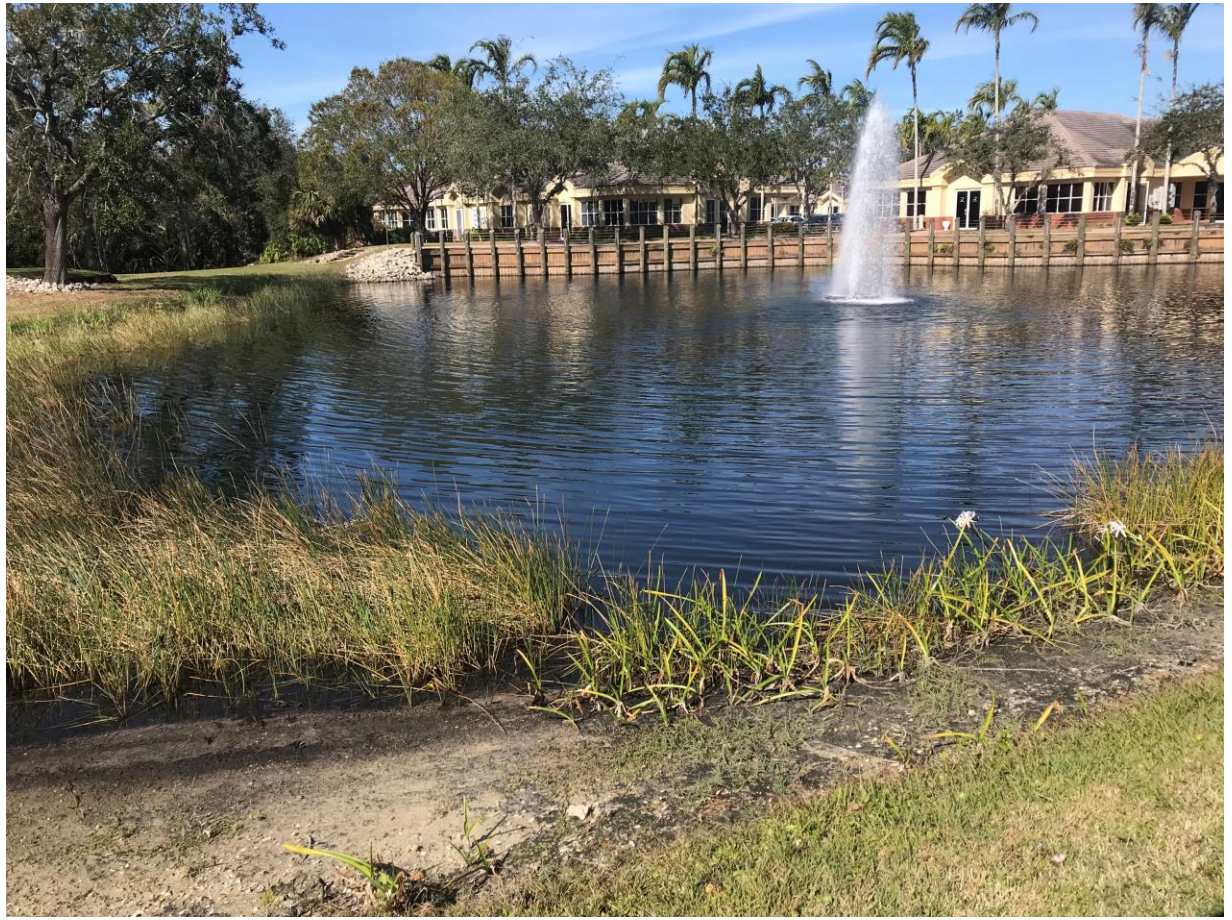
D3 – Southbridge Looks good



D3A – Southbridge. Looks great



B7 Looks great



B3 – Main entrance. Looks very good.