Aquatic Systems
LAKE & WETLAND SERVICES

Placido Bayou Community Association Waterway Inspection Report

Reason for Inspection: Customer Request

Inspection Date: 11/26/2014

Prepared for:

Ms. Dietta Burgoyne

4691 Laurel Oak Lane NE

St. Petersburg, Florida 33703

Prepared by:

Kyle Vincent, Service Manager

Aquatic Systems, Inc. – St. Petersburg Field Office

Corporate Headquarters

2100 N.W. 33rd Street, Pompano Beach, FL 33069

1-800-432-4302

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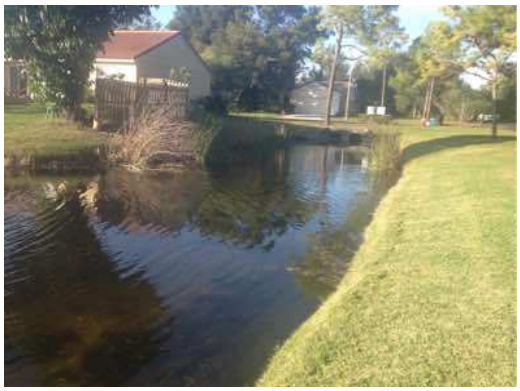
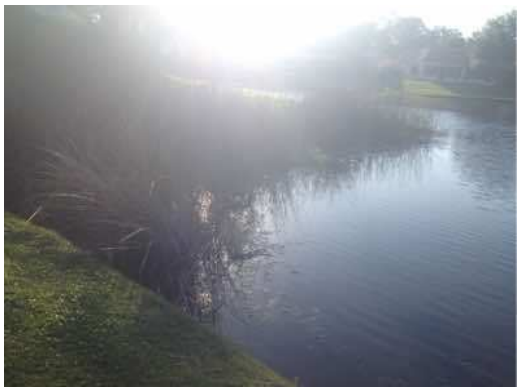
Site: 1

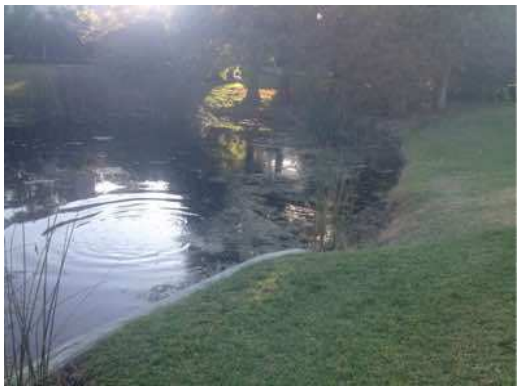




Comments: Site looks good

This site will continue to be monitored for areas of decomposing bulrush until such time as a removal is deemed necessary. No other issues present at this time.

Site: 2



Comments: Site looks good

New plants seem to be doing well in this site. Oxidizer and digester enzyme regiment to begin in December tentatively.

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Site: 3

Comments: Site looks good

Trace algae at north end should dissipate after dredging near culvert occurs. Remainder of site is in excellent condition.

Site: 4

Comments: Site looks good

All new plants appear to be doing well at this time. All areas of decomposing bulrush in this site will continue to be monitored as well until such time as a removal is deemed necessary.

Site: 5

Comments: Site looks good

New plants appear to be doing well. Diffuser can be seen above going strong. Recent rains have elevated water levels to the point where no mow signs are completely submerged.

Site: 6

Comments: Requires attention

Joey will work on the clearing of dead material from the floating mat next month. Please see management summary for details regarding photos to right.

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Site: 7

Comments: Site looks good

No algae present at this time. All invasive grasses under control. New aquatic plant growth seems to be doing well. Cypress trees will be monitored until spring for survivability.

Site: 8

Comments: Site looks good

Trace duckweed present will be treated on next visit. Otherwise site is in excellent condition.

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Site: 9

Comments: Site looks good

All aeration systems should be evaluated at regular intervals for health and performance. PBCA recommended for evaluation of all sites at this time. Vertex has been notified.

Site: 10

Comments: Site looks good

New plants and mangroves appear to be doing very well.

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Management Summary

Plantings for sites #2, #4, #5, #6, #7 and #10 have been completed. All aquatic plants appear to be doing well and will continue to be monitored for several months. There is concern that the Bald Cypress planted may be experiencing stress beyond their capacity. We will continue to monitor these trees closely. Regardless, no action is recommended until spring. If re-planting is necessary it should not be performed until the next planting season.

Herbicides will not be applied to recently planted sites for 90 days from time of planting. It should not be necessary during this time of year anyway. Preventative algae treatments have been performed using dye on sites #2, #3 and #6 this month to avoid any need for algaecide in the near future as well. All other sites are in excellent condition at this time.

Oxidizer and digester enzyme treatments to help in the breakdown of organic material (once authorized) will be applied to sites #4 and #6 beginning in December.

Please note: These are not herbicides and are not harmful in any way.

Annual chemistries have been performed for all 10 sites and will also be attached to the email for your review.

Additionally, as requested, Total Phosphorus tests have been performed again for sites #4 - #8, which were treated with Alum in October of 2013. These results have been included within the report for your review on the next page.

As you can see these levels are beginning to rise again slowly. This was presented as a possibility from the beginning due to the extensive use of reclaimed water within the community. Unfortunately, as long as reclaimed water is being utilized we will likely continue to see these levels rise to their previous levels. A perfect example of this happening can be seen in the photos for site #6.

Making the connection between the costs of repeated Alum treatments and their responsible watering practices should help increase awareness and the use of best management practices.

Recommendations/Action Items

At this time we are still strongly recommending that PBCA continue with their plans to apply Alum to sites #9 & #10 early next year. However it is strongly encouraged that steps be taken to minimize the use of reclaimed water as much as possible and the community take steps to maintain their irrigation systems in good working order to avoid any unnecessary addition to the ponds nutrient levels.

An example of this issue was observed at 488 Avila Cir NE. This resident should be notified of the faulty sprinkler system. No one was home at the time. Gallons of water were observed actively flowing directly down the drain which leads directly into pond #1. This is an example of point source nutrient pollution and one of the reasons it is critical that, if reclaimed water must be used, that is should be monitored and maintained to the fullest extent possible.

We at Aquatic Systems hope everyone within Placido Bayou has a wonderful Thanksgiving and look forward to a great December!

Aquatic Systems
LAKE & WETLAND SERVICES

Customer Name	Placido Bayou	Sample Date	11/17/14
Account Number	1978-2	Report Date	11/20/14

LABORATORY RESULTS
Placido Bayou

	Total Phosphorus (ppb)				Desired Range
	September 2013	October 2013	April 2014	November 2104	
Site 4	1730	230	310	450	50-300
Site 5	1590	340	680	740	
Site 6	2950	320	1120	910	
Site 7	1450	390	380	510	
Site 8	1430	240	230	440	

Table 1 Laboratory results from total phosphorus testing on surface water samples. Testing was run in September 2013 (two weeks prior to the Alum treatment), October 2013 (after Alum), and as follow-up testing during April 2014 and November 2014.

*The orange line indicates the time of Alum treatment.

November 2014	Total Phosphorus (ppb)		Desired Range
	Surface	Bottom	
Site 4	450	540	50-300
Site 5	740	1020	
Site 6	910	990	
Site 7	510	260	
Site 8	440	450	

Table 2 Laboratory results for total phosphorus testing on both surface and bottom water samples taken during November, 2014.

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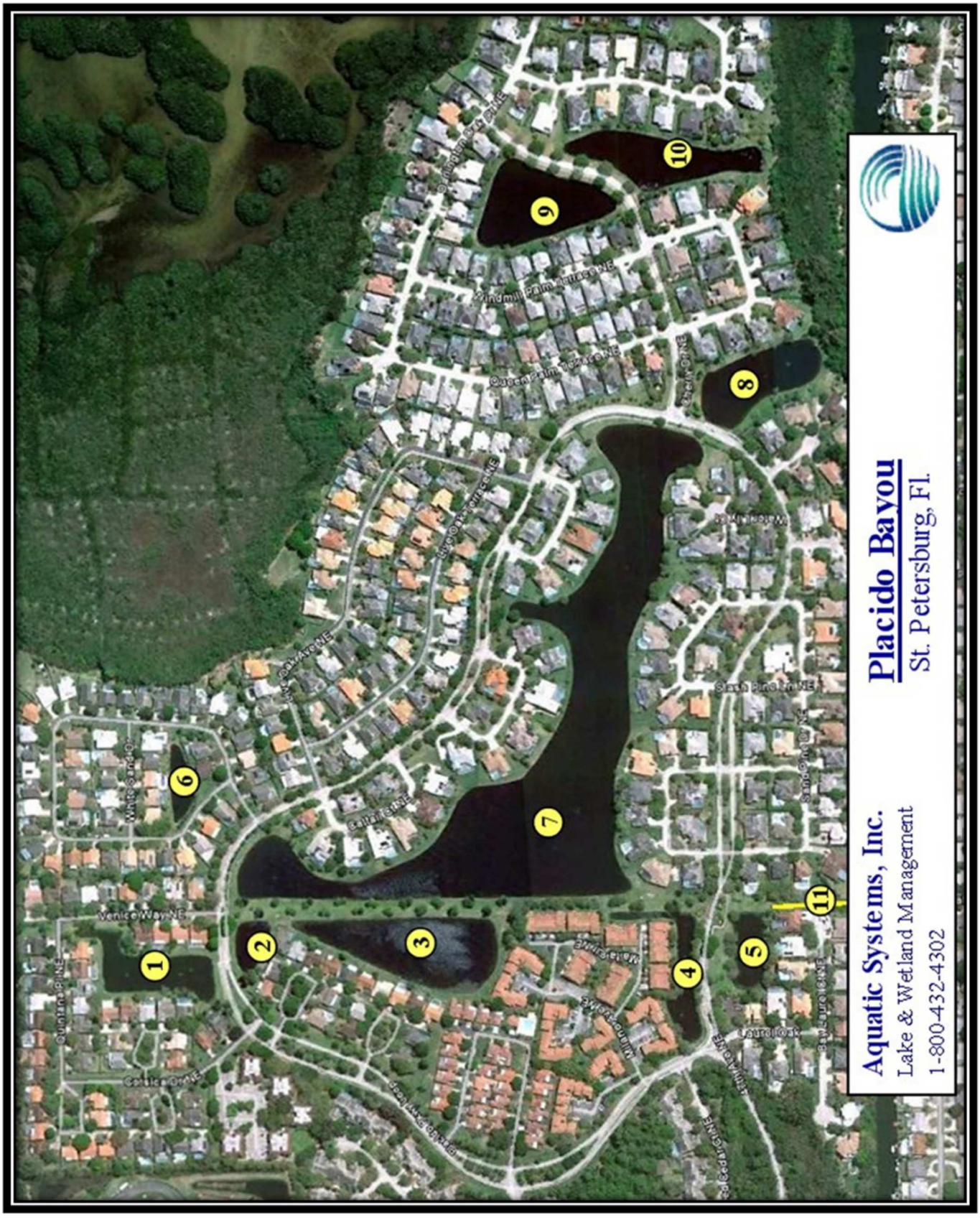
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