

2019

**LAKE ENGLISH ESTATES
LAKE MANAGEMENT PLAN**

Annual Meeting

- Agenda

Lake Management Plan

- General Provisions & Scope of Services
- Community-Based Activities & Events
- Current Fiscal Year
 - Planned Treatments & Funding
 - Recommendations
- Next Fiscal Year
 - Projected Treatments & Funding
- Exhibits
 - Agenda & Notes Prior Year
 - Financial Summary
 - Historic Reports/Data
 - Roles & Responsibilities

LAKE ENGLISH ESTATES

ANNUAL MEETING

Date/Time/Location	:	March 5, 2019 11:00am - 11:40am	200 W. County Home Rd – LMP office
Community Liaisons	:	Kelsey Blahnik and Blair Davidson	
Liaisons Present	:	Kelsey Blahnik	
Seminole County	:	Thomas Calhoun, Joey Cordell, Gloria Eby, and Joe Saucer	

General Topics & Updates

Lake Management Program

- Welcome
- Fertilizer Ordinance- Passed on February 27, 2017. www.seminolecountyfl.gov/fertilizer.
 - Restricted Months: no fertilizing June 1st- September 30th
 - Slow Release Nitrogen: at least 50%
 - Know How Much: www.seminolecountyfl.gov/calculator
 - Buffer Zone: 15 feet from all waterbodies
- Shoreline Protection Ordinance Status
 - FWC Rule change removes permit requirements on lakes smaller than 160 acres
 - Currently drafting County Shoreline Ordinance
 - LMP will keep liaisons updated
- Treatment Plans - Current & Proposed [Refer to Lake Management Plan]
 - Continue to monitor and treat accordingly
 - Invasives under control
 - Continue to monitor algal blooms
 - Herbicide treatment currently conducted monthly by canoe
- General recommendations for lake-community consideration [Refer to Lake Management Plan]
 - Increase native aquatic plantings in areas devoid of vegetation
 - Taller plants requested for water tower area
- 2019 Shoreline Planting Event- dates available
 - To be coordinated via Thomas Calhoun
 - April 27th
- Other
 - Email Addresses for routine communications and important announcements
 - Kelsey to supply email for new resident
 - Ordinance addressing SAV treatment
 - Language to be changed, LMP to keep liaisons updated
 - No date for water tower removal
 - Fountain system (\$6,254.00)
 - Can provide water quality benefits

MSBU Program

- Financial Summary [Refer to Exhibit B]

LAKE ENGLISH ESTATES LAKE MANAGEMENT PLAN

GENERAL PROVISIONS

Scope of Public Aquatic Weed/Plant Control [AWC] Services

The scope of public aquatic weed control [AWC] services funded by non-ad-valorem assessment includes those services associated with managing aquatic plant communities as deemed beneficial and/or critical to restoring, developing and/or maintaining conditions that enhance the water quality and over-all health of the waterbody; with emphasis on providing public services for public purposes which by definition of public are limited to the waterbody and respective shoreline when/where noxious and/or invasive exotic vegetation could/would threaten or impede the waterbody.

Governing documents

- Seminole County Ordinance 2017-26

Methods for Aquatic Weed Control as authorized via County Ordinance/Resolution

- Chemical (herbicides)
- Biological (sterile triploid grass carp fish [TGC])
- Mechanical (harvesting, cutting, etc.)

Targeted Invasive/Exotic Aquatic Vegetation

- Torpedo grass, para grass, primrose willow, alligator weed, wild taro, salvinia, duck weed, algae.

Frequency of AWC Treatment

AWC services are performed at the direction of the Seminole County LMP as per the Lake English Estates Management Plan reviewed at the annual planning session with the expectation that the Seminole County LMP may alter anticipated treatments on an as merited basis per changing/evolving conditions noted during site inspections.

Herbicide Treatments - Service Provider

- As determined by Seminole County

Funding

Financial management of the MSBU fund is provided by the Seminole County MSBU Program. Financial plans developed by the MSBU Program include eligible expense funding requests submitted by the Lake Management Program and other cost and revenue components typical to MSBU funds. Financial information inclusive of prior year actual outcome, current year working budget and next year budget proposal data is reported annually. Assessment levy is subject to Board approval and the standard procedures associated with non-ad valorem assessment. The financial plans may be adjusted by the County as merited per changing/evolving essential services as directed by the County and per financial planning considerations. The annual assessment is capped at \$850.00.

Lake Liaisons

Designated property owners (or their designated representatives) provide community representation at annual planning sessions with the County and serve voluntarily as the key point of contact for community inquiries and concerns. The liaisons for Lake English Estates are: Kelsey Blahnik (kelseyblahnik08@gmail.com) and Blair Davidson (davidson2511@gmail.com).

COMMUNITY-BASED ACTIVITIES & EVENTS

LMP recommends/encourages homeowners to coordinate a resident-based volunteer event involving native plantings creating a beneficial shoreline for Lake English Estates. The intention of such an event is to plant beneficial native aquatic plants in key areas along the bank. It is especially important that as the aquatic invasive plants (such as torpedo grass) are being treated, native aquatic plants should be established within these areas. The presence of the recommended native plant species along the shoreline provides habitat for fish and wildlife, helps impede invasive exotics from re-establishing, and reduces erosion of the shoreline. All of these best management practices are essential to providing the conditions that promote an environmentally stable habitat to be enjoyed by generations to come. The key to success is dependent on strong participation of the Lake English Estates community.

Continued recommendations for community initiatives are as follows:

- 1) Shoreline re-vegetation with native emergent plants (by the lakefront community and potentially volunteers),
- 2) Establishing a formal Lake Association holding at least one annual meeting with topics relevant to Lake English Estates,
- 3) Continue to increase educational outreach programs i.e. Shoreline Restoration Workshops (planting days), Florida Yards and Neighborhoods (FYN), Lake Management Video mail-outs, and reduction of residential pollution (use phosphorous free and slow-release nitrogen based fertilizers only). Contact Seminole County LMP, 407-665-2439, for more information and assistance,
- 4) Provide content for the Seminole County Water Atlas Lake Management Webpage for Lake English Estates (such as newsletters and photos).

Important to Note: When herbicides are applied along the shoreline to invasive plants (such as torpedo grass), overspray onto adjacent desirable vegetation may occur. In order to avoid damage to desired vegetation, manual (by hand) removal (by property owner) of the undesirable species from among the desirable species along the shoreline is advised. If the invasive plants are removed by this method, spraying the area can be reduced, thereby offering greater protection to the desirable species. The physical removal of dead/decaying aquatic plant material will reduce the volume of decomposing vegetation on the lake bottom (muck layer) and will increase the success of the efforts to limit the re-growth of the invasive plants. The presence of submerged aquatic vegetation (“SAV” such as hydrilla) should be communicated to your lake liaison for their reporting to the County so appropriate treatment of SAV can be provided.

COUNTY SERVICES – Lake Management & Supplemental Programs

While the MSBU assessment includes a nominal charge for administering the MSBU, the amount charged does not cover all the expenses incurred by the County on behalf of the waterfront property owners. Lake English Estates is monitored by LMP to assess the aquatic plant growth. LMP provides continued evaluation of the aquatic plant species and provides community updates on the status of treatments and waterbody bioassessment. In addition, LMP offers free aquatic plant material (as available) for sponsored restoration events and local community volunteers coordinated through the county’s Seminole Education and Restoration Volunteer (SERV) Program. Many of the services provided by the LMP are made available to support community riparian stewardship without additional charges being assigned to the MSBU budget.

Current Fiscal Year – Planned Treatment & Funding

Primary Aquatic Plant Management Expectations

Invasive aquatic growth in Lake English Estates has likelihood to continue, however, the timing and re-growth is affected by multiple natural and environmental factors that cannot be controlled or predicted with certainty. While extensive growth is possible at any point in time, it is anticipated that routine spot treatments with herbicides will be sufficient to manage re-growth during the current fiscal year. The anticipation of spot treatments for the current fiscal year takes into consideration the historic trend of management required at Lake English Estates, as well as current conditions observed at the pond. As with any waterbody with a history of invasive aquatic growth, long-term planning to include financial preparation for whole lake treatment is advised. LMP will continue to closely monitor Lake English Estates.

Funding Expectations

Refer to current fiscal year data provided in Exhibit B.

Next Fiscal Year – Projected Treatment & Funding

Primary Aquatic Plant Management Expectations

The projected treatment plans for the next fiscal year remain consistent with the plans and expectations noted for the current fiscal year. Primary expectations are as follows:

- 1) Continued close monitoring of aquatic growth,
- 2) Conduct spot treatments as required,
- 3) Continued treatment of the invasive aquatic plants – herbicides,
- 4) Monitor/control/replant managed areas,
- 5) Consider shoreline re-vegetation sites (lakefront community).

Funding Expectations

Refer to next fiscal year data provided in Exhibit B.

Exhibits

A - Agenda & Notes from Prior Year Meeting

B - Financial Summary

C - Historic Reports/Data

D - Roles & Responsibilities

Exhibit A – Agenda & Notes from Prior Year Meeting

Date, Time & Location :	February 21, 2018, 2:00 p.m., 200 W. County Home Rd – LMP office
Community Liaisons :	Kelsey Blahnik and Blair Davidson
Liaisons Present :	Blair Davidson
Seminole County :	Thomas Calhoun, Joey Cordell, Gloria Eby, Kim Ornberg, and Joe Saucer

General Topics & Updates [Meeting Notes entered by respective Programs]

Lake Management Program

- Welcome
- Fertilizer Ordinance- Passed on February 27, 2017. www.seminolecountyfl.gov/fertilizer.
 - Fertilizer containing nitrogen or phosphorous cannot be applied to turf during the restricted season from June 1st – September 30th. Fertilizers containing Iron, Manganese and other "micronutrients" also referred to as "summer blends" can be applied during the restricted.
 - Fertilizer containing nitrogen that is used during the **non**-restricted season (October 1st – May 31st) must contain *at least* 50% or more slow release nitrogen. This slow release nitrogen content will increase to 65%, three (3) years after adoption of the Fertilizer Ordinance, to allow time for educational outreach to residents and retailers.
 - Fertilizer containing phosphorus cannot be applied to turf or plants unless a state certified soil or tissue test verifies that there is a phosphorus deficiency.
 - Use of deflector shields is required when applying fertilizer with a broadcast or rotary spreader.
 - No fertilizer may be applied within fifteen (15) feet of any pond, lake, stream, canal, or other waterbody, including wetlands.
- Treatment Plans - Current & Proposed [Refer to Lake Management Plan]
 - Continue to monitor and treat accordingly
- General recommendations for lake-community consideration [Refer to Lake Management Plan]
 - Increase native aquatic plantings in areas devoid of vegetation
- 2018 Shoreline Planting Event- dates available
 - To be coordinated via Thomas Calhoun
- Other
 - Email Address for routine communications and important announcements
 - Discussed restoration event 4/7/2018
 - Discussed sending letter regarding restoration to the residents on the west side of the pond completed before 4/7/2018 restoration event
 - Discussed access for contractor
 - Discussed stocking of sport fish
 - Water Tower demo, no update available
 - Liaisons showed interest in water quality projects such as aeration and fountain

MSBU Program

- Phase 1 Completed and Closed
 - Financial Summary - Refer to Exhibit B; Assessment Update
 - Anticipating Administrative Fee increase FY19-20; tax year 2019
- Tentative date for next annual meeting: January 30, 2019 2:00PM

Exhibit B - Financial Summary

January 2019

Tax Year Assessment	2017 \$ 600.00	2018 \$ 600.00	2019 \$ 600.00
Fiscal Year	FY17-18	FY18-19	FY19-20
REVENUE			
	Actual	Working Budget	Proposed Budget
Beginning Fund Balance	\$ -	\$ 1,617	\$ 2,043
Assessment	\$ 3,456	\$ 3,456	\$ 3,456
Other	\$ 33	\$ 5	\$ 5
MSBU Program Fund Advance	\$ -	\$ -	\$ -
TOTAL	\$ 3,489	\$ 5,078	\$ 5,504
Cost Sharing Lake Management Program			
TOTAL	\$ 3,489	\$ 5,078	\$ 5,504
EXPENDITURE			
	Actual	Working Budget	Proposed Budget
County Administrative Fee	\$ 1,075	\$ 1,235	\$ 1,235
Fund Advance Repayment	\$ -	\$ -	\$ -
Contracted Services	\$ 797	\$ 1,800	\$ 1,800
<i>Routine Services</i>	\$ 797	\$ 1,800	\$ 1,800
<i>Hydrilla</i>	\$ -	\$ -	\$ -
<i>TGC Fish</i>	\$ -	\$ -	\$ -
<i>Fish Barrier Service - NA</i>	\$ -	\$ -	\$ -
<i>Fish Barrier Replacement - NA</i>	\$ -	\$ -	\$ -
<i>Nutrient Abatement (NAV)</i>	\$ -	\$ -	\$ -
<i>Harvesting</i>	\$ -	\$ -	\$ -
<i>Other</i>	\$ -	\$ -	\$ -
Reserve/Contingency	\$ 1,617	\$ 2,043	\$ 2,469
<i>Operating Contingency</i>	\$ 1,617	\$ 1,243	\$ 1,669
<i>Reserve: Hydrilla (Whole Lake)</i>	\$ -	\$ 800	\$ 800
<i>Reserve: Barrier Replace/Repair</i>	\$ -	\$ -	\$ -
<i>Reserve: Admin Code & Ord Amnd</i>	\$ -	\$ -	\$ -
TOTAL	\$ 3,489	\$ 5,078	\$ 5,504
Cost Sharing Lake Management Program		\$ -	\$ -
TOTAL	\$ 3,489	\$ 5,078	\$ 5,504
Fund Advance BB Payment (Principal)		\$ -	\$ -
Fund Advance EB		\$ -	\$ -
MSBU Program Administration Cost	\$ 1,141	\$ 12,641	
LM Program Administration Cost	\$ 7,500		
Restoration Event Cost	\$ 4,000		

ROLES & RESPONSIBILITY

General Outline

COUNTY

Seminole County will

- ✓ Govern the MSBU
- ✓ Provide financial management of MSBU fund and assessment levy
- ✓ Ensure activities conducted with assessment funding align with the scope of services documented in the governing ordinance
- ✓ Ensure the lake is monitored and services are appropriately rendered
- ✓ Maintain decision-making authority relative to public services and will defer to best lake management practices when making such decisions
- ✓ Provide an ongoing lake management plan based on the defined service scope, permitting, conditions at the lake, funding parameters, and best lake management practices. The Lake Management Plan will be developed and maintained by the Lake Management Program with liaison participation
- ✓ Initiate and manage service contracts, monitor results, and communicate updates on a routine basis
- ✓ Conduct annual meetings that offer opportunity for liaison discussion as to prior, current, and future action plans
- ✓ Encourage liaisons and assist with educational outreach efforts to protect the health and water quality of the waterbody

LIAISONS

Liaisons will

- ✓ Encourage communitywide awareness and participation relative to environmental stewardship recommendations and opportunities
- ✓ Provide communitywide communication and assist the County in the distribution of relevant lake information
- ✓ Attend annual lake management and budget planning sessions conducted by the County
- ✓ Serve as representatives of the community on lake issues; representing the respective lake community as a whole
- ✓ Monitor lake conditions and provide feedback to the County as to observations