#### **Environmental Protection Division**

# Lakeshore Protection Permit Overview

**For Homeowners and Agents** 



#### Lakeshore Protection Regulations

- County Code
- State Code
- Permit Definitions
- Application Process (LSP)
- Application Process (NGP)
- Application Denial Factors
- Site Plans
- Permit Issuance
- Compliance Inspections
- Restoration Success Examples
- Living Lakeshores

#### **Environmental Protection Division**

# Lakeshore Protection Regulations (Orange County)

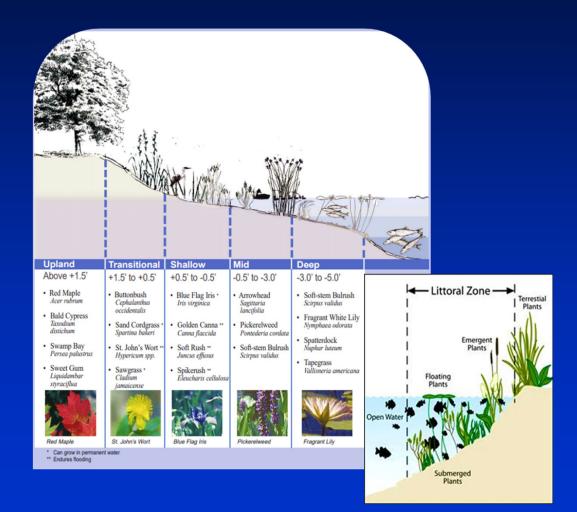
Orange County Code, Chapter 15, Article VII (Lakeshore Protection)



- Access Corridor
- Best Management Practices (BMPs)
- Conservation Easement (CE)
- Lakeshore Protection Permit (LSP)
- Letter of No Objection (LONO)
- Normal High Water Elevation (NHWE)
- Notice General Permit (NGP)
- Outstanding Florida Waters (OFW)
- Standard Permit (SP)
- Surface Water
- Wetland

#### What is a Littoral Zone?

- The shallow down-sloping shelf of a lake or pond is commonly referred to as the lake's "littoral zone."
- This zone is an area where the water meets the land.
- Plants here support wildlife such as wading birds, turtles, snails, and fish.
- A primary function of a planted littoral zone is to absorb pollutants from water that drain into our canals, rivers, and stormwater.
- Littoral zone vegetation also prevents shoreline erosion.
- Well-functioning littoral areas are aesthetically pleasing, add habitat for wildlife, and increase property values.





Municipality	LSP	NGP
Un-incorporated Orange County	$\checkmark$	$\checkmark$
Belle Isle	$\checkmark$	×
Edgewood	$\checkmark$	$\checkmark$
Oakland	$\checkmark$	×
Ocoee	$\checkmark$	×
Windermere	$\checkmark$	$\checkmark$
Apopka	×	×
Eatonville	×	×
Orlando	×	×
Winter Garden	×	×
Winter Park	×	×
Maitland	×	×

# Chapter 15, Article VII, Section 15-252: Findings, purposes, and objectives

- Shoreline vegetation is necessary for the health and viability of a lake system.
- Sediments and nutrients that could potentially run into the lake are removed by shoreline vegetation and associated areas (such as a wetland/CE) by means of filtration.
- Wave action and runoff can cause extensive erosion in areas that have been destabilized by removal of shoreline vegetation.
- Shoreline vegetation both protects and improves water quality.

#### Section 15-253: Definitions

- *Clearance* the alteration of or removal of shoreline vegetation by chemical treatment, mechanical or nonmechanical uprooting or removal
- Normal High Water Elevation (NHWE) the landward edge of any natural surface water body during normal hydrologic conditions as determined by Orange County.
  - NOT the edge of water
  - See the Orange County Water Atlas (orange.wateratlas.usf.edu/) for individual lake information.
- **Reestablish** the regrowth of shoreline vegetation, where the average growth height is more than 14 inches above the shore or water surface.
- Shoreline vegetation aquatic or wetland vegetation, including, but not limited to, those plants listed in F.A.C. 62-301.400(2) and (3), and/or the vegetation index referenced in Orange County Code, Section 15-378(b).

#### Section 15-254: Permit Process

- A permit *must* be obtained prior to any work being done (excluding access corridor).
- The applicant must demonstrate that the clearance of shoreline vegetation will not materially affect any of the rights and interests of the public.
- If EPD does not receive Letters of No Objection (LONOs) through the application process, the environmental protection officer (EPO) shall send notices of application via USPS to affected neighbors.
  - » If no written remarks are received within 30 days it shall be presumed no objections exist.

#### Section 15-256: Penalties; enforcement

- If the EPO determines that clearing is occurring without prior approval or not in accordance with the issued permit – they shall issue a written notice of violation with the remedial action required.
  - » This can include restoration of damaged topography
  - » Revegetation of the site to comply with these regulations/permit conditions
  - » Mitigation for impacted wetlands or surface waters
  - » Payment of permit, inspection fees, penalties, etc.

#### **Environmental Protection Division**

# Lakeshore Protection Regulations (State of Florida)

### Lakeshore Protection Regulations State of Florida

### Florida Administrative Code (F.A.C.)

 Reach out to applicable state agency (WMD, FDEP, FWC) to determine if a permit is required for the proposed activities.

### Florida Fish and Wildlife Commission (FWC)

- Chapter 68F-20 F.A.C. Aquatic Plant Control Permits
- Access corridor is larger than OC, so OC permit is also required
- Questions? Contact 863-534-7074 for help with the online application process.
- Obtaining a State permit does not exempt you from filing for an Orange County permit. When in doubt, reach out! Contact <u>wetlandpermitting@ocfl.net</u> to inquire about EPD permit requirements for your site.

#### **Environmental Protection Division**

# **Permit Definitions**



### Lakeshore vs. Wetland

- Lakeshore begins at the NHWE and goes waterward; the LSP permit also includes any shoreline wetland landward of the NHWE
- Wetland can be an isolated wetland non-adjacent to a surface water





- Orange County regulations for protection of wetlands are primarily found in Chapter 15, Article X.
- An updated version of the Code went into effect June 1, 2024.
- Article X establishes procedures for:
  - 1) The identification of all potential wetlands and surface waters.
  - 2) Wetland buffer limits, including 25ft minimum, 50ft average on lots less than 5 acres, and 100ft buffers on lots greater than 5 acres.
- Additional question about buffers or wetlands? Contact wetlandpermitting@ocfl.net.

#### Lakeshore Protection Permit (LSP)

- In situations where the lakeshore and/or adjacent wetland/conservation easement (CE) have become dominated by nuisance, invasive, or exotic vegetation, an LSP may be issued to allow the removal of these nonbeneficial species.
- Replanting native vegetation to 80% areal coverage is <u>required</u>.
- Application Fee: \$126.00 (fee study in progress for reevaluation)

#### Notice General Permit (NGP) – Invasive Plant Removal

- In situations where wetlands that are NOT ADJACENT TO A SURFACE WATER have become dominated by nuisance, invasive, or exotic vegetation, an Invasive Plant Removal NGP may be issued to allow the removal of non-beneficial species.
- Replanting native vegetation to 80% areal coverage is required.
- Application Fee: \$1,332.00

### When do I apply for an LSP?

- In situations where the shoreline wetland and/or lakeshore below the NHWE have become dominated by nuisance, invasive, or exotic vegetation, a Lakeshore Protection Permit may be issued to allow the removal of these non-beneficial species. Tree removal is generally not permitted.
- Previously, Conservation Area Authorization (CAA) permits were issued to remove nuisance, invasive or exotic plants within wetlands or Conservation Easements (CEs) adjacent to lakes. Now, you may apply for an LSP to cover the maintenance of CEs.



 Examples of nuisance/exotic species commonly found in a shoreline wetland:
 Wild Taro (Colocasia esculenta)





 Examples of nuisance/exotic
 species commonly
 found in a shoreline
 wetland:

Torpedograss
 (Panicum repens)

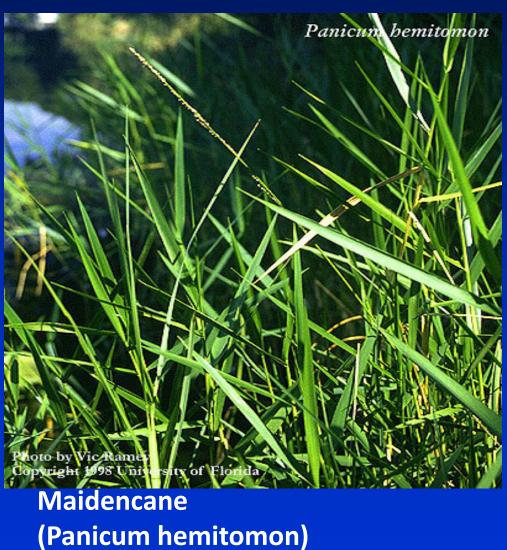




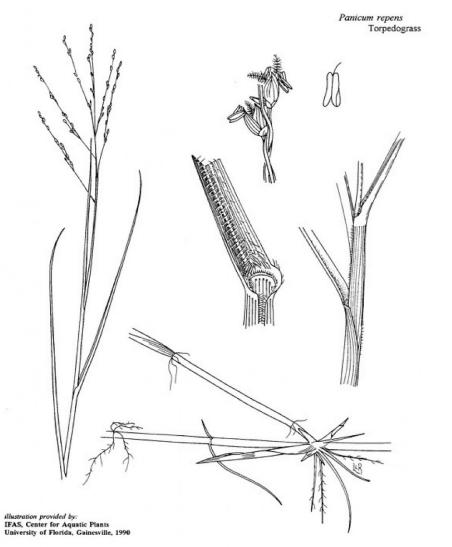
# Not to be confused with maidencane, which is a Florida native and may not be removed.



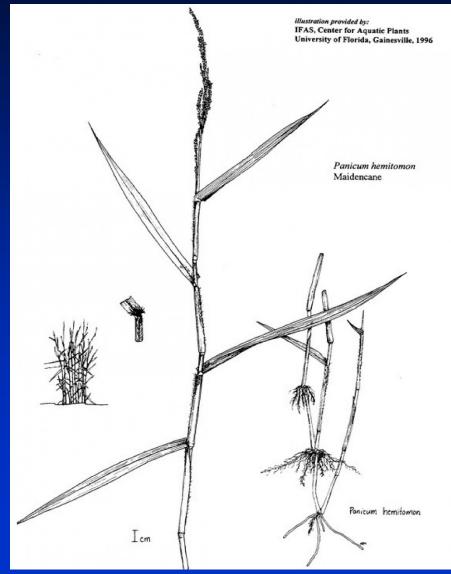
Torpedograss (Panicum repens)







Torpedograss



#### Maidencane (Panicum hemitomon)



Examples of nuisance/exotic species commonly found in a shoreline wetland:

Peruvian
 primrosewillow
 (Ludwigia peruviana)





# Not to be confused with Mexican primrosewillow, which is a Florida native and shall not be removed.



Peruvian Primrosewillow (Ludwigia peruviana)



Mexican Primrosewillow (Ludwigia octovalvis)







Ludwigia octovalvis (Jacq.) P.H. Raven – 1, flowering and fruiting branch; 2, flower; 3, flower, perianth removed; 4, fruit; 5, seed.

#### Mexican Primrosewillow (Ludwigia octovalvis)



Examples of nuisance/exotic species commonly found in a shoreline wetland:
 Cogongrass (Imperata

cylindrica)





Examples of nuisance/exotic species commonly found in a shoreline wetland:
 Cattail (*Typha* spp.)





Examples of nuisance/exotic species commonly found in a shoreline wetland:
 Muscadine (grape) (Vitis rotundifolia)



#### **Environmental Protection Division**

# Application Process Lakeshore Protection Permit (LSP)

	L Charter 22, Asticles II and IV, Oppose Court (C. 1.)
JUNIL	I, Chapter 33, Articles II and IV, Orange County Code)
ERNMENT ORIDA	
Mail or         Orange County Environmental Protection Division	n (EPD)
Deliver To: 3165 McCrory Place, Suite 200 Orlando, Florida 32803	
(407) 836-1400, Fax (407) 836-1499	
**Enclose a check for the filing and advertising fee of \$126.00 payab	le to The Board of County Commissioners**
**Process Fee for Appeals and	Variances - \$409.00**
SECTION 1	
OWNER(S) OF THE LAND	
Jame:	
ddress:	
ity:	State:Zip:
elephone and Fax:Email:	
NTITY TO RECEIVE PERMIT (IF OTHER THAN OWNER)	
lame:	
itle and Company:	
Address:	
Sity:	State:Zip:
elephone and Fax:Email:	
GENT/CONSULTANT AUTHORIZED TO SECURE PERMIT	
lame:	
itle and Company:	
ddress:	
	State:Zip:
'elephone and Fax:Email:	
CONTRACTOR (IF DIFFERENT FROM AGENT)	
lame:	
the and company.	
ritle and Company:	

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#### SECTION 2 - GENERAL INFORMATION:

Street address:	
Parcel/Tax ID Number(s):	
Legal description of property:	
SECTION 3 – DESCRIPTION OF WORK	
Description of work (name specific plants to be removed and/or planted):	

#### The percentage of shoreline vegetation proposed to be removed: \_

#### REQUIRED ATTACHMENTS:

- A certified property survey
- □ Agent Authorization Form (if applicable)
- A Notarized "Affected Adjacent Property Owner Notarized Statement of No Objection to Lakeshore Vegetation Removal" from adjacent property owners and any other significantly affected property owners
  - If not supplied by the applicant, EPD is required to complete the notification process, which may may add an additional 45 days to the application processing time(s)-.

%; Total shoreline

feet.

- □ A Before and After site plan of the current and proposed conditions
- Photographs of the area in which the work is being proposed

#### Name and address of adjacent property owners

Address:			
City:	State	Zip	

Name:\_\_\_\_\_ Address:\_\_\_\_

Name

City:

#### REQUIRED DIAGRAMS/SITE PLAN ATTACHMENTS MUST INCLUDE:

□ The property owner's name and site address.

- □ The Normal High Water Elevation (NHWE) value and location, and any easements.
- Lake name, north arrow, and accurate dimensions of the property (including linear feet of shoreline at the NHWE).
- □ A detailed depiction of existing conditions, including species and location of all existing vegetation (native and non-native).

State Zip

- The specific location and species to be removed (including any submerged vegetation).
- □ The specific location and species to remain.
- □ The specific location, species, size, spacing, and the approximate number of native plants to be re-planted.
  - Note that plantings on an impaired water body or Outstanding Florida Water will be required to number at least five different native species and be installed on one-foot centers.
- The method to be used for vegetation removal.
- The means for minimizing and controlling erosion and for reducing the nutrient concentration in both surface runoff and lake waters.
- □ An accurate depiction of the location and size of the access corridor.

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REQUI	IRED ATTACHMENTS:
	A certified property survey
	Agent Authorization Form (if applicable)
	A Notarized "Affected Adjacent Property Owner Notarized Statement of No Objection to Lakeshore Vegetation Removal"
	from adjacent property owners and any other significantly affected property owners
	• If not supplied by the applicant, EPD is required to complete the notification process, which may may add an additional
	45 days to the application processing time(s)
	A Before and After site plan of the current and proposed conditions
	Photographs of the area in which the work is being proposed
N	ame and address of adjacent property owners
N	ame:
	ddress:
	ity: State Zip
Na	ame:
	ddress:
Ci	ty: Zip
REQUI	IRED DIAGRAMS/SITE PLAN ATTACHMENTS MUST INCLUDE:
	The property owner's name and site address.
	The Normal High Water Elevation (NHWE) value and location, and any easements.
	Lake name, north arrow, and accurate dimensions of the property (including linear feet of shoreline at the NHWE).
	A detailed depiction of existing conditions, including species and location of all existing vegetation (native and non-native).

□ The specific location and species to remain.

□ The specific location, species, size, spacing, and the approximate number of native plants to be re-planted.

- Note that plantings on an impaired water body or Outstanding Florida Water will be required to number at least five different native species and be installed on one-foot centers.
- □ The method to be used for vegetation removal.
- The means for minimizing and controlling erosion and for reducing the nutrient concentration in both surface runoff and lake waters.
- □ An accurate depiction of the location and size of the access corridor.

Page 2 of 5

\*Please ensure you are including these required documents in the permit application

□ Chapter 2019-125, Florida Statutes (House Bill 7103), establishes timeframes for applicant and agency responses. By checking this box, you are providing written authorization for EPD to waive the mandatory timeframes established by law.

#### SECTION 3

PERSON AUTHORIZING ACCESS TO THE PROPERTY MUST COMPLETE THE FOLLOWING:

I either own the property described in this application or I have legal authority to allow access to the property and I consent to any site visit on the property by agents or personnel from Orange County, Florida necessary for the review and inspection of the proposed project specified in this application. I authorize these agents or personnel to enter the property as many times as may be necessary to make such review and inspection. Further, I agree to provide entry to the project site for such agents or personnel to monitor permitted work if a permit is granted.

Signature

Typed/Printed Name

Corporate Title (if applicable)

By signing and submitting this application form, I am applying for the permit identified above, according to the supporting data and other incidental information filed with this application. I am familiar with the information contained in this application, and represent that such information is true, complete, and accurate. I understand this is an application and not a permit, and that work conducted prior to approval is a violation. I understand that this is an application for the removal of <u>non-native/nuisance vegetative species</u> only, that approval is contingent upon replanting with native species, and that <u>my property will ultimately be required to achieve 80% coverage of appropriate wetland and/or aquatic species</u>. I understand that this application for obtaining any other required federal, state, water management district or local permit prior to commencement of construction. I agree, or I agree on behalf of my corporation, to operate and maintain the permitted system unless the permitting agency authorizes transfer of the permit to a responsible operation entity; I understand that knowingly making any false statements or representation in this application is a violation of Section 15-256, Orange County Code.

Signature

Typed/Printed Name

Date

Date

Corporate Title (if applicable)

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, am the legal owner of

#### SECTION 4

#### TO BE COMPLETED BY REAL PROPERTY OWNER ONLY:

Please read each of the following requirements of the Lakeshore Restoration Permit and initial next to each statement confirming you have read and understand the requirements set forth by Orange County Ordinance, Chapter 15, Article VII.

\_\_\_\_\_ the property described herein.

- \_\_\_\_\_ I understand that the purpose of this permitted activity is to improve or enhance the ecological value of the shoreline and the adjacent waterbody.
- I understand that the replanting of my shoreline with native vegetation to a minimum areal coverage of 80 percent within 30 days of the removal of the nuisance/invasive/exotic species is required.
- I understand that if Orange County staff determines my property to have less than 10 percent areal coverage of nuisance/invasive/exotic vegetation upon site inspection, my permit application will be administratively closed.
- I understand that replanting requirements may differ based on existing vegetation, community type, or other site conditions.
- I understand that if my property is on an Outstanding Florida Water (OFW) or an impaired waterbody that I must meet stricter replanting requirements, such as plantings being installed more densely and diversity of revegetation must meet a minimum of five different species based on similar species in the watershed.
- I understand that a turbidity barrier, or other sediment/erosion control measures, must be used for the entirety of the removal and replanting process.
- I understand that no heavy equipment shall be used to alter topography, impact the soil, or result in excessive turbidity.
- I understand that native trees are protected and will not be removed or impacted, unless specified and approved.
- I understand that EPD staff shall have permission to enter my property at any reasonable time to ensure conformity with the approved plans and specifications approved by the permit.
- I understand that if any native trees are removed, I will be required to replant appropriate native trees at a 4:1 ratio.
- I understand that I may be required to address any outstanding enforcement/compliance items prior to the approval of my permit.
- I understand that if Orange County staff determines that my shoreline replanting is insufficient, I may be held responsible for corrective actions that may include but not be limited to, replanting with additional native vegetation, paying penalties for non-compliance, paying fines for each day my property is out of compliance, and mitigation for impacts. I understand that upon the transfer of ownership of the property the permit shall become void unless a completed
- permit transfer request is submitted to EPD.

I, \_\_\_\_\_\_, understand and acknowledge the above statements and requirements of this permit application and the potential implications if I do not comply with my permit.

Typed/Printed Name of Real Property Owner

Real Property Owner Signature Date

Corporate Title (if applicable)

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\*The property owner must initial this section, NOT the contractor

#### AGENT AUTHORIZATION FORM FOR PROJECTS LOCATED IN ORANGE COUNTY, FLORIDA I/WE. (PRINT PROPERTY OWNER NAME) AS THE OWNER(S) OF THE REAL PROPERTY DESCRIBED AS FOLLOWS. DO HEREBY AUTHORIZE то ACT AS MY/OUR AGENT (PRINT AGENT'S NAME) GOVERNMEN' TO EXECUTE ANY PETITIONS OR OTHER DOCUMENTS NECESSARY TO AFFECT THE APPLICATION APPROVAL REQUESTED AND MORE FLORID SPECIFICALLY DESCRIBED FOLLOWS, AS AND TO APPEAR ON MY/OUR BEHALF BEFORE ANY ADMINISTRATIVE OR LEGISLATIVE BODY IN THE COUNTY CONSIDERING THIS APPLICATION AND TO ACT IN ALL RESPECTS AS OUR AGENT IN MATTERS PERTAINING TO THE APPLICATION. Date: Signature of Property Owner Print Name Property Owner Date: Signature of Property Owner Print Name Property Owner Date: Signature of Property Owner Print Name Property Owner Date: Signature of Property Owner Print Name Property Owner STATE OF FLORIDA COUNTY OF I certify that on , before me. an officer duly authorized by the State of Florida and in the county mentioned above, to take acknowledgements, , to me known to be the person described in this personally appeared instrument or to have produced as evidence, and who has acknowledged before me that he or she executed the instrument and did / did not take an oath. Witness my hand and official seal in the county and state stated above on the \_\_\_\_\_ day of \_, in the year \_ Signature of Notary Public Notary Public for the State of Florida (Notary Seal) My Commission Expires: Legal Description(s) or Parcel Identification Number(s) are required: PARCEL ID #: LEGAL DESCRIPTION:

\*If you are using an agent, make sure this is filled out in its entirety and notarized.

**ORANGE** 

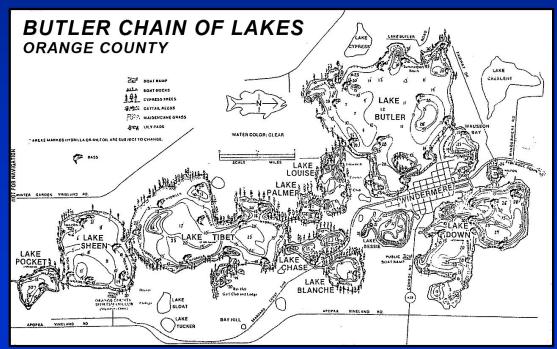
	01	JECTION TO	) LAKESHO	RE VEGETATION REMOVAL	OF 1
<u>JOUNTY</u>					
<u>VERNMENT</u> lorida					
certified mail to the a	djacent property	owners and any	y other potenti	ironmental Protection Officer shall send not ally significantly affected property owners. of no objection from each of the affected a	In
	completed by the	e affected adjace	nt property ow	ner as required by Section 15-254(c), Orange	•
I,			, residing at		
(Affected Adjace	ent Property Ow	mer Name)	,	(Address)	
Lake(Nam	e of Lake)		, have revie	ewed the proposed plan for the removal o	f
				and have no objection to the project.	
iquale vegetation n	on my adjacen	i property o with	er s shorenne	and have no objection to the project.	
(Sign	ature)			(Date)	
(Print	Name)				
ACKNOWLEDGE					
STATE OF FLORIE COUNTY OF					
The foregoing instru		wiledged befor	e me this	day of 20 by	
The foregoing instru	ment was acking	wiedged befor	e me uns	day of 20, by	
		·			
(NOT	ARY SEAL)				
	,	(Signature of	Notary Public	c – State of Florida)	
Personally Known	OP Predu	and Identificanti			
Personally Known					

#### \*Must be notarized.

- If LONOs are <u>NOT</u> provided, EPD staff must send a letter to the appropriate adjacent property owners informing them of the work being proposed.
  - The adjacent property owners then have 30 days upon receipt to object to the proposed work.
  - Note: This can increase the processing time of the permit
- If LONOs <u>ARE</u> provided, then EPD does not need to wait for the 30-day noticing period to end in order to issue the permit.

## **Additional Information: Navigation Board Notices**

- If the property is located on the Conway or Butler Chain of Lakes, EPD Staff must notice the Navigation Board for each chain of lakes.
- There is a 30-day noticing period for response.





## **Common Application Issues:**

- Missing signatures
- Forms not being notarized
- Missing removal/replanting plan(s)
- Required items missing from the plan(s)
- Missing required documents/attachments for permit application

### **Reminders:**

- These permits are <u>ONLY</u> for the vegetative restoration of lakeshores and wetlands.
- New plantings <u>MUST</u> be installed within <u>30 days</u> of the completion of the removal of nuisance/exotics, regardless of the season.

If you have any questions regarding the permit application process please reach out. EPD will happily set up a pre-application meeting to ensure you have all of the required documents prior to application submittal.

407-836-1402 or wetlandpermitting@ocfl.net

### **Environmental Protection Division**

# Application Process Noticed General Permit (NGP)

**Invasive Plant Removal** 



#### ORANGE COUNTY NOTICED GENERAL PERMIT APPLICATION FORM INVASIVE PLANT REMOVAL

IT Environmental Protection Division 3165 McCrory Place, #200 Orlando, FL 32803

#### APPLICATION SUBMITTAL DETAILS

Processing Fee for a Noticed General Permit (Beneficial Activity) is: \$1,332.00 Payments may be made electronically using the FastTrack permitting portal: <u>OC Fast Track Home Page (ocfl.net)</u> OR By check submitted to EPD. Please make check payable to: **Orange County Board of County Commissioners** 

EPD encourages all applications to be electronically submitted. Electronic submittal: wetlandpermitting@ocfl.net

Have any questions? Please call EPD at: (407) 836-1402 or by email: <u>wetlandpermitting@ocfl.net</u> OR refer to the <u>Applicant's Handbook</u>.

	SECTION 1
c	OWNER OF THE LAND
Name: Click or tap to enter text	
Title & Company: Click or tap to enter text	
Telephone: Click or tap to enter text	Email Address: Click or tap to enter text
Address: Click or tap to enter text	
City: Click or tap to enter text	State: Click or tap to enter text Zip Code: Click or tap to enter text
ENTITY TO RECEIV	IVE PERMIT (IF OTHER THAN OWNER)
Name: Click or tap to enter text	
Title & Company: Click or tap to enter text	
Telephone: Click or tap to enter text	Email Address: Click or tap to enter text
Address: Click or tap to enter text	
City: Click or tap to enter text	State: Click or tap to enter text Zip Code: Click or tap to enter text
AGENT AU	JTHORIZED TO SECURE PERMIT
Name: Click or tap to enter text	
Title & Company: Click or tap to enter text	
Telephone: Click or tap to enter text	Email Address: Click or tap to enter text
Address: Click or tap to enter text	
City: Click or tap to enter text	State: Click or tap to enter text Click or tap to enter text Click or tap to enter

Form #15-387(c)(2) – Application for a Noticed General Permit: Invasive Plant Removal Form Revision Date: June 10, 2024. All previous revisions are obsolete.

CONSULTANT (I	IF DIFFERENT THAN	NAGENT)					
Name: Click or tap to enter text							
Title & Company: Click or tap to enter text	Title & Company: Click or tap to enter text						
Telephone: Click or tap to enter text	Email Address: Cli	ick or tap to enter text					
Address: Click or tap to enter text							
City: Click or tap to enter text	State: Click or tap to a text	enter Zip Code:	Click or tap to enter text				

	SECTION 2 PROJECT SITE DETAILS	
Property Site Address:		
Tax Parcel ID Number(s):	Click or tap to enter text	
	SECTION 3	

			SECTIONS	
			PROJECT SPECIFIC CRITERIA	
YES	NO	N/A	STATEMENT (If no, your project will not qualify for an Orange County Noticed General Permit.)	
			Will only non-native/invasive plant species be removed? [Refer to Section 15-387(c)(2)]	
			Will erosion control best management practices be utilized? [Refer to Section 15-387(c)(2)a]	
			Will all removed vegetation be properly disposed of in a landfill? [Refer to Section 15-387(c)(2)b]	
			Are all proposed impacts temporary in nature? [Refer to Section 15-387(c)(2)c]	

SUPPORTING DETAILS					
	(Please provide separate 8 ½ by 11-inch sheets for each item below.)				
	All items below are required in order to obtain your NGP.				
	Vicinity/Location Map				
	Current aerial photograph of the project site with the parcel boundary shown (max. scale 1:2,400). [Refer to Section 15-387(a)(5)]				
	Legible plan view drawing depicting the locations and sizes (square feet and/or acres) of proposed invasive plant removal areas, proposed temporary impact areas, and any proposed access routes and staging areas for equipment. [Refer to Section 15-387(a)(6)]				
	A Wetland and/or Surface Water map of the development site that depicts any potential wetlands or surface waters extending off-site or within one hundred (100) feet of the proposed development. [Refer to Section 15-387(a)(7)]				
	Include an Environmental Assessment for all listed plant and animal species and listed and non-listed wildlife that utilize the development site. The assessment shall include but is not limited to an evaluation of the effect of the development site on any identified listed species, a location map of any listed plant and wildlife occurrences, including nests or burrows, a map of any applicable wildlife agency consultation area and a map of any potential wildlife corridors on the development site. [Refer to Section 15-137(a)(11)]				
	A Landcover vegetation map utilizing FLUCCS classifications with the parcel boundary shown. [Refer to Section 15-387(a)(12)]				
	<ul> <li>Describe in detail the invasive plant removal to include the following: <ul> <li>Method(s) (biocontrol, chemical, or equipment), and frequency to be used for vegetation treatment and removal</li> <li>Provide a list of plant species to be removed and to species to remain</li> <li>Percentage of total vegetation to be removed from each stratum (canopy, subcanopy, and groundcover</li> <li>Observed and potential occurrence of listed plant and animal species that may be affected by the proposed activity, with relevant measures to be taken to avoid adverse effects</li> <li>Sedimentation and erosion control plan [Refer to Section 15-387(a)(6)]</li> </ul> </li> </ul>				
	If applicable, a planting plan with the specific location, species, size, spacing, and the approximate number of native plants to be re-planted, or reasonable demonstration (based on size of treated area, presence of mature seed source, etc.) that the treated area will be naturally colonized by desirable native species following the invasive removal.				
	If applicable, a restoration plan for temporary impacts expected during work activities, which may include (but are not limited to) damage to native species in wetlands or upland buffers caused by equipment access or staging.				
	A valid Wetland Determination issued pursuant to Section 15-382 unless the wetland determination application is being reviewed concurrently with the NGP application. [Refer to Section 15-387(a)(4)]				
	Provide UMAM Sheets Part I & II, pursuant to Chapter 62-345, F.A.C. for each wetland, surface water and upland buffer impact on-site and for mitigation purposes. [Refer to Section 15-387(a)(13), Section 15-391]				
	If applicable, provide a detailed compensatory mitigation plan that fully describes and shows all mitigation endeavors that are proposed to offset all impacts associated with the proposed project. [Refer to Section 15- 417(a)]				
	Include all email addresses for names/entities provided in Section 1.				

Form #15-387(c)(2) – Application for a Noticed General Permit: Invasive Plant Removal Form Revision Date: June 11, 2024. All previous revisions are obsolete.

					SECTION	4				
		WETLAN	D (WL), SURF/		MMARY TABL		UB) PROPOSED	IMPACTS		
WL/SW/UB ID	Community Type*	Size (acres)	Temporary Impacts (acres)	Permanent Impacts (acres)	Secondary Impacts (acres)	Remaining WL/SW/UB (acres)	Functional Assessment Method	Functional Loss (Secondary Impacts)	Functional Loss (Permanent Impacts)	Mitigation ID
TOTALS:		0.00	0.00	0.00	0.00	0.00		0.00	0.00	
	*List Florida	Land Use, Co				OT 1999; webs ubs/fluccmanu		ww.fdot.gov/do	cs/default-	



				SECTION	5				
				COMPENSATORY M	ITIGATIO	N			
Mitigation ID	Orange County Conservation Trust Fund	Mitigation Bank	If "Other," Please Specify	Mitigation Location	Creation (acres)	Enhancement (acres)		Preservation Upland Buffer (acres)	Functional Gain
TOTALS:					0.00	0.00	0.00	0.00	0.00

Form #15-387(c)(2) – Application for a Noticed General Permit: Invasive Plant Removal Form Revision Date: June 11, 2024. All previous revisions are obsolete.

#### WAIVER OF 30-DAY TIME FRAMES FOR APPLICANT RESPONSE AND OCEPD REVIEW

Please note that pursuant to Chapter 125.022, Florida Statutes establishes timeframes for applicant and agency responses. By checking this box, you are providing written authorization for Orange County, Environmental Protection Division to waive the mandatory timeframes established by law.

#### SECTION 6 OWNER/AGENT AUTHORIZED TO SECURE PERMIT

By signing this application form, I am applying, or I am applying on behalf of the property owner, for an Orange County Noticed General Permit on the subject property. I am familiar with the information contained in this application and represent that such information is true, complete, and accurate. I understand this is an application for an Orange County Noticed General Permit, and that any work prior to approval of a permit is a violation of Orange County code. I understand that this application and determination issued pursuant thereto does not relieve me of any obligation for obtaining any other required federal, state, or local permit prior to construction. I understand that any false statement or representation in this application will nullify the permit and understand that a new application with appropriate filing fee will be necessary.

Typed/Printed Name of Owner or Authorized Agent:

(Corporate Title if applicable)

Signature of Owner/Agent:

Date:

#### PERSON AUTHORIZING ACCESS TO THE PROPERTY MUST COMPLETE THE FOLLOWING ACCESS TO PROPERTY

I am either the property owner described in this application, or I have legal authority to allow access to the property, and I consent, after receiving prior notification, to any site visit on the property by personnel from Orange County necessary for the review and inspection of the proposed project specified in this application. I authorize the personnel to enter as many times as may be necessary to make sure such review and inspection.

Typed/Printed Name of Owner or Legal Authority: (Corporate Title if applicable) Click or tap to enter text

Signature of Owner/Legal Authority:

Date:

#### SECTION 7

#### AGENT AUTHORIZATION FORM

#### FOR PROJECTS LOCATED IN ORANGE COUNTY, FLORIDA

Date	Signature of Pro	operty Owner	Click or tap to enter text Print Name Property Owner
			Click or tap to enter text
Date	Signature of Pro	operty Owner	Print Name Property Owner
in the county mention person described in before me that he or	ned above, to take acknow this instrument or to have she executed the instrumen	ledgements, personally appeared	n officer duly authorized by the State of Flo , to me known to be as evidence, and who has acknowled day of, in the year
in the county mentic person described in before me that he or	ned above, to take acknow this instrument or to have she executed the instrumen	ledgements, personally appeared produced nt and did / did not take an oath.	, to me known to be as evidence, and who has acknowled day of, in the year
in the county mentic person described in before me that he or	ned above, to take acknow this instrument or to have she executed the instrumen	Iedgements, personally appeared produced nt and did / did not take an oath. and state stated above on the Signature of Notary Publi	, to me known to be as evidence, and who has acknowled day of, in the year c e of Florida
in the county mentic person described in before me that he or Witness my hand an	oned above, to take acknow this instrument or to have she executed the instrumen of official seal in the county i	Iedgements, personally appeared produced nt and did / did not take an oath. and state stated above on the Signature of Notary Publi Notary Public for the Stat My Commission Expires:	, to me known to be as evidence, and who has acknowled day of, in the year c e of Florida
in the county mentic person described in before me that he or Witness my hand an Witness my hand an Legal Description(s) PARCEL ID:	oned above, to take acknow this instrument or to have she executed the instrumen of official seal in the county in dofficial seal in the county in (Notary Seal)	Iedgements, personally appeared produced nt and did / did not take an oath. and state stated above on the Signature of Notary Publi Notary Public for the Stat My Commission Expires:	, to me known to be as evidence, and who has acknowled day of, in the year c e of Florida

Form #15-387(c)(2) – Application for a Noticed General Permit: Invasive Plant Removal Form Revision Date: June 11, 2024. All previous revisions are obsolete.

### **Environmental Protection Division**

# Application Denial Factors

## **Application Denial Factors**

### Applications may be denied if:

There are new or ongoing non-compliance issue(s) on site. All such issues should be resolved prior to seeking an LSP and/or NGP permit.

## Applications will be denied if:

- There is less than 10% areal coverage of nuisance or invasive/exotic vegetation.
- The property is outside EPD's jurisdiction.

## **Application Denial Factors**

### Applications will be denied if:

- The wetland has ongoing maintenance/monitoring required.
  - Sometimes wetlands in a new subdivision are a part of a monitoring plan required as a condition of the development's Conservation Area Impact (CAI) or Natural Resource Impact Permit (NRIP).
  - During the maintenance and monitoring period (which typically lasts five years), the CAI or NRIP Permittee is responsible for the condition of these wetlands.

## **Application Denial Factors**

### How do I know?

If you are unsure of the status of a parcel or wetland, please reach out to EPD staff. We will gladly assist you in any way we can.

Email: wetlandpermitting@ocfl.net Phone: 407-836-1402 Fax: 407-836-1499

All e-mails sent to this address becomes part of Orange County public record. Comments received by our e-mail subsystem can be read by anyone who requests that privilege. In compliance with "Government in the Sunshine" laws, Orange County Government must make available, at request, any and all information not deemed a threat to the security of law enforcement agencies and personnel.

### **Environmental Protection Division**

# Site Plans

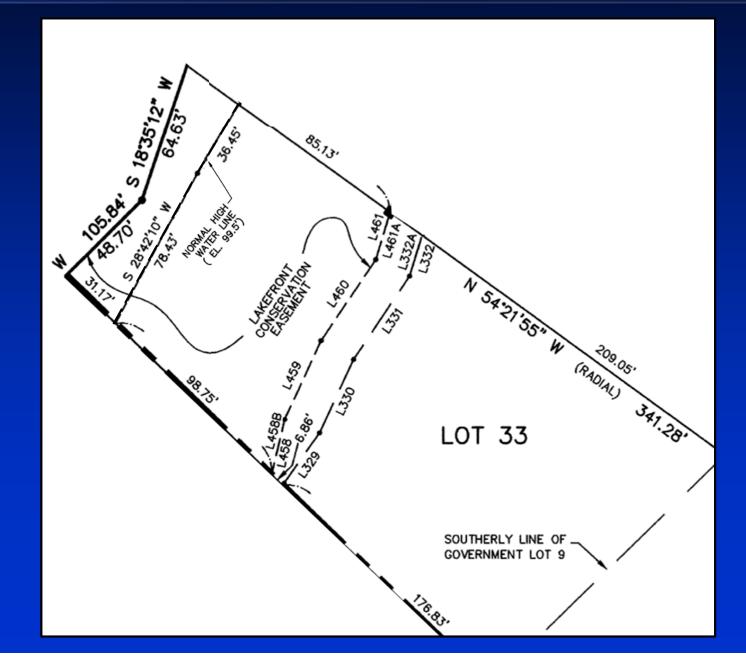
### **Lakeshore Protection Permit (LSP)**



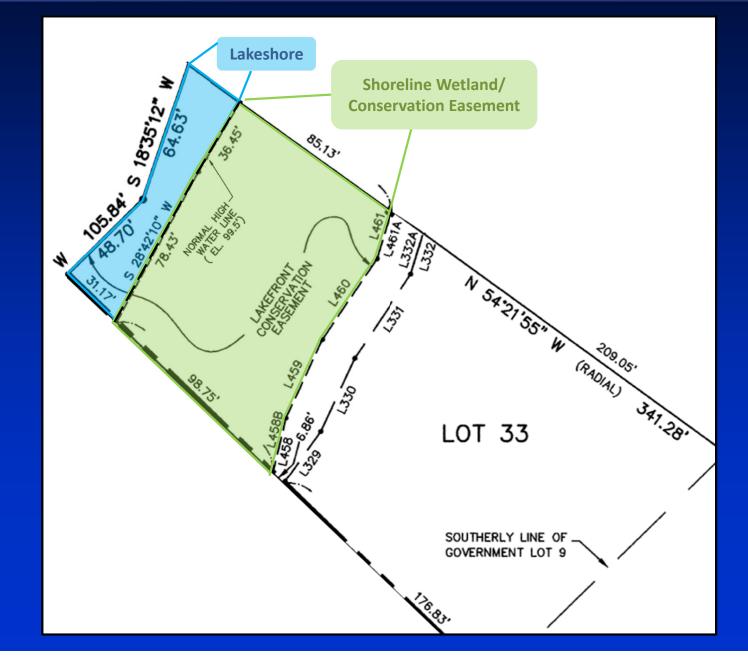
### All site plans must include:

- Location of NHWE
- Location and limits of CE
- Location of access corridor
- Detailed description of proposed plants to remove and replant
- Plant spacing and size

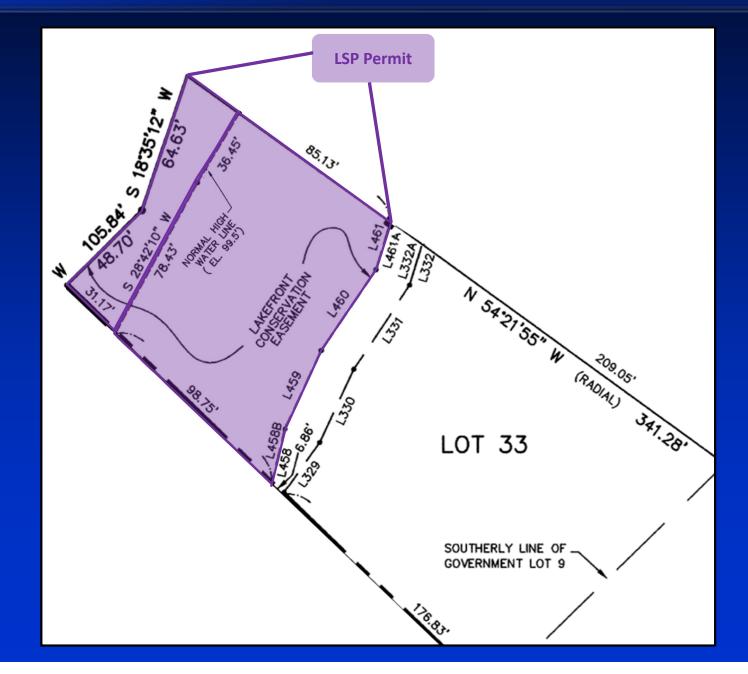








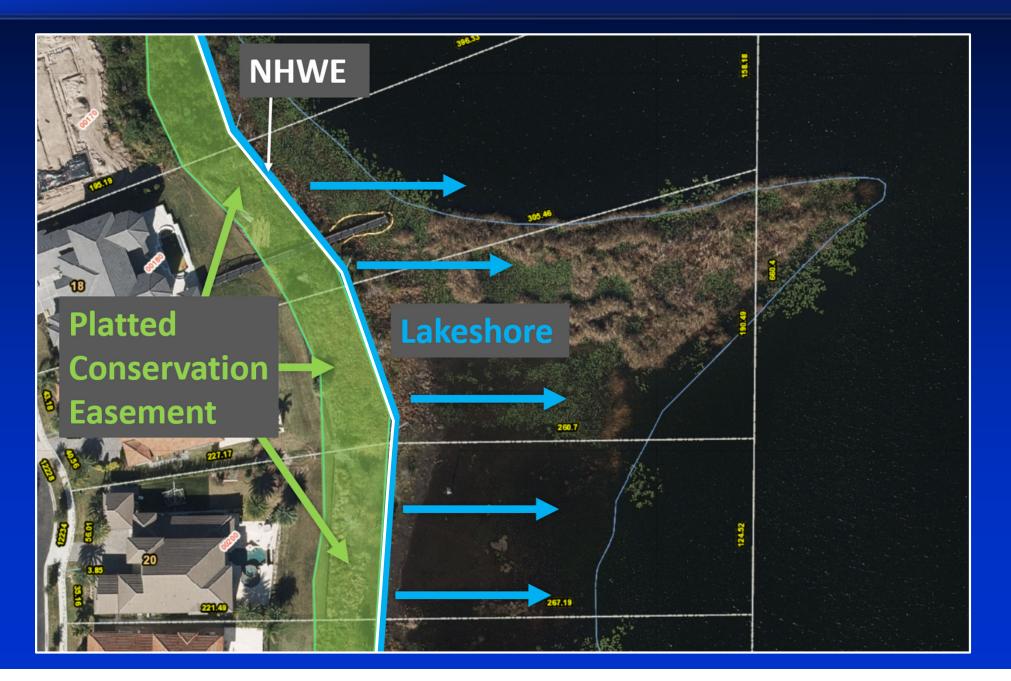










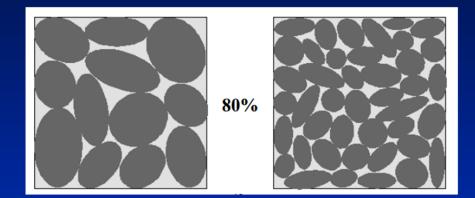




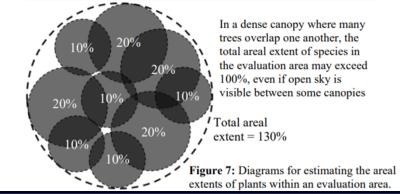


**Site Plans** 

Each square is divided into quarters which depict the same percent volume using features of different sizes. These can also represent areal extents for plants. 2% 10% 5% 25% 20% 15% 30% 35% 40% 50% 60% 70% 47



#### Tips for Estimating Areal Extent of Plant Species (continued)





 Include a detailed depiction of existing conditions, including species and location of all existing vegetation (both native and non-native)

- Note: Identify all native/significant vegetation to remain
- Include a plan showing the specific location and <u>species</u> to be removed (including any submerged vegetation).

Method to be used for vegetation removal

 Note: No heavy equipment may be used that may alter the topography, impact the soil, or result in excessive turbidity. (A Weedo may only be used within the access corridor and if there is a monoculture of invasives permitted for removal. You must specify that the other areas will be hand-removal only.)



### Number of each species proposed to be replanted.

- Note: This must be significant enough to cover the proposed removal area.
- Note: If there are areas deemed too deep to replant, they should not be included in the removal plan.



A great resource to estimate how many plantings you will need to achieve a significant enough replanting plan is to use a "Plant Spacing Calculator"

- You will need to determine square footage of the area proposed for removal;
- Whether the waterbody has additional criteria (OFW or impaired);
- The spacing requirements for the plants proposed for revegetation;
- Three species minimum is required (unless within an OFW or impaired water body).

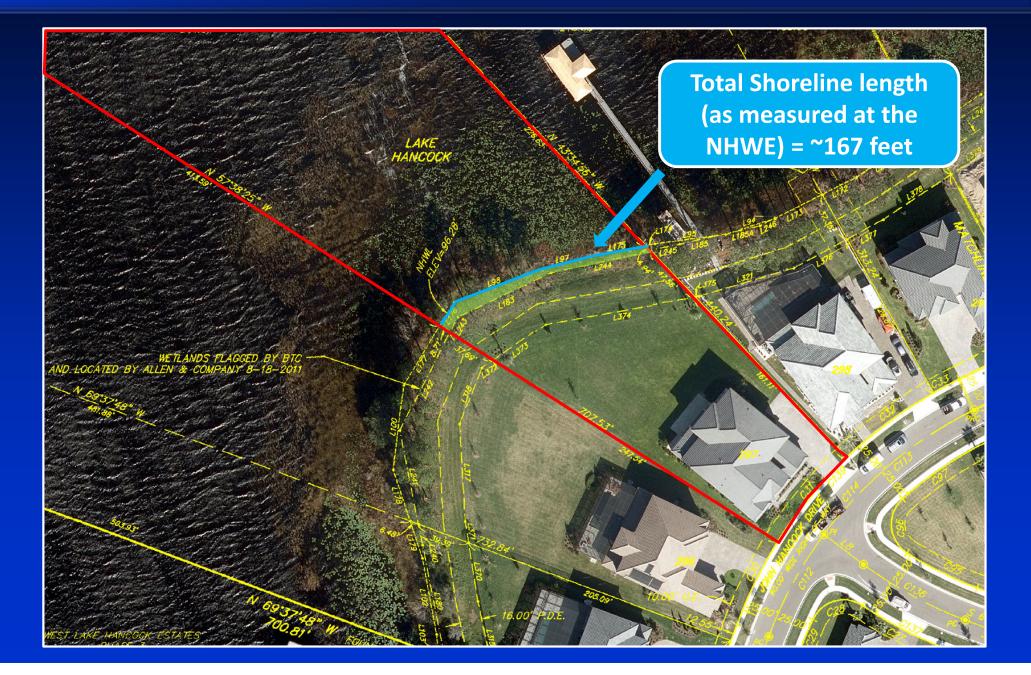












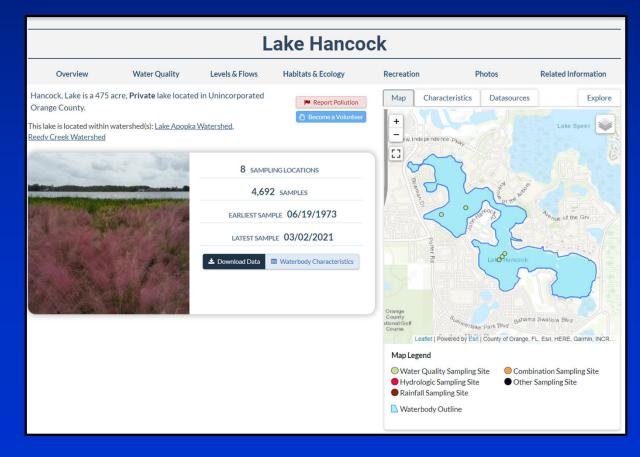






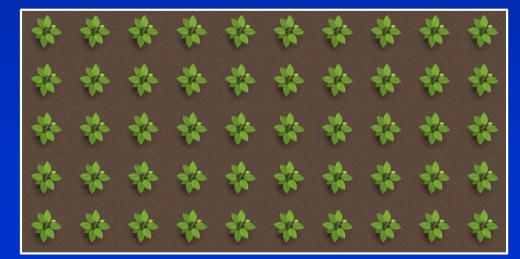
# Area to be replanted: ~4,734 sq. ft. Waterbody: Lake Hancock

Not impaired or designated OFW





- Area to be replanted: ~4,734 sq. ft.
- Since Lake Hancock is non-impaired/OFW, spacing can be 2 ft. or 3ft. for groundcovers with a minimum three species
- For shrubs, replanting requirements are site-specific.
- Native trees may not be removed.





Area	•
Area:	4734 ft² ▼
Plants Spacing:	2 ft ▼
Planting Pattern:	
Square Triangle	
CALCULATE RESET S	
Result NUMBER OF PLANTS: 1183	
	EMBED <>
★ ★ ★ ★ ★ (15 votes, average: 4.53 out of 5)	
Similar Calculators:	





### **Plant Spacing Calculator Resources:**

https://www.wilsonbrosgardens.com/how-many-plants-to-fill-aspace.html

https://classygroundcovers.com/site/page?view=plantCalculator

https://www-

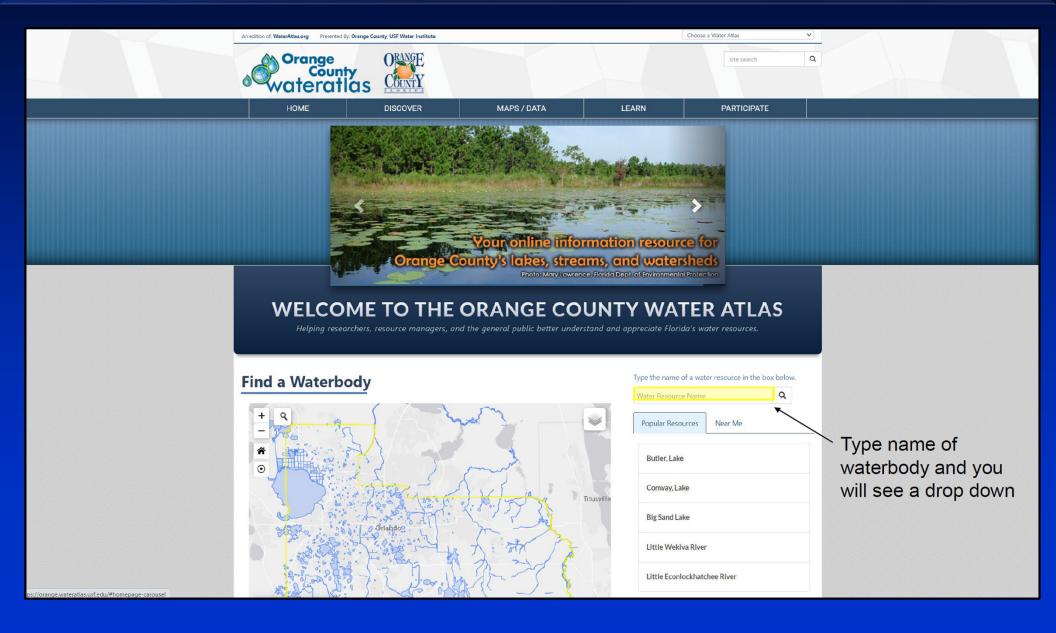
users.cse.umn.edu/~white004/personal/plantcalc.html

https://concalculator.com/plant-calculator/

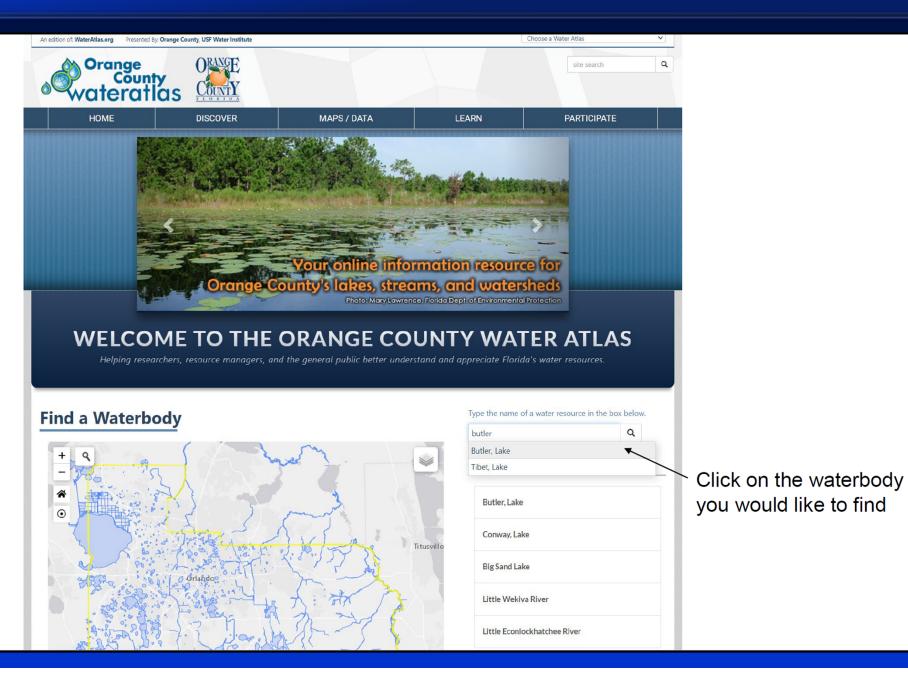


- For lakes that are impaired or designated as an Outstanding Florida Water (OFW) (such as the Butler Chain of Lakes):
  - The diversity of plants for replanting must meet a minimum of <u>five</u> different species based on similar species in the watershed.
  - Plantings must be installed on 1-foot centers.
- What is an OFW in Orange County?
  - Butler Chain of Lakes
  - Econlockhatchee River and Little Econlockhatchee River (partial)
  - Wekiva River
- How do I know if the lake is impaired?
  - Check the Orange County Water Atlas
    - <u>https:/orange.wateratlas.usf.edu/</u>

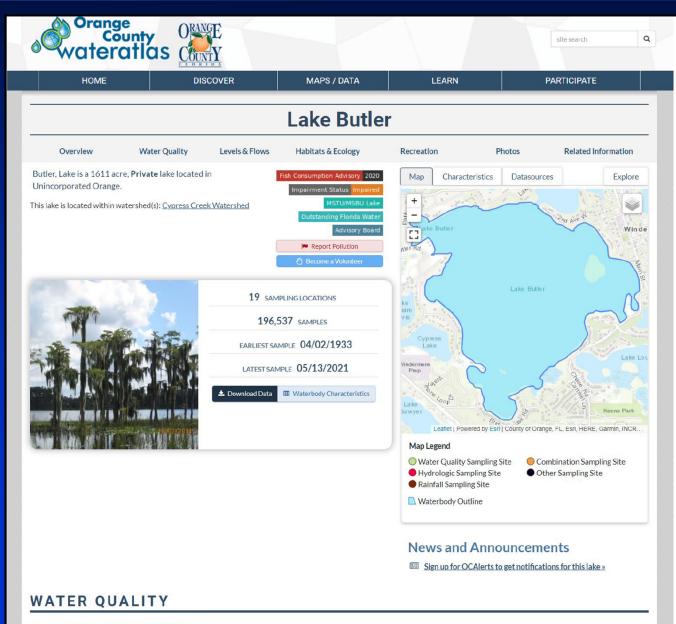






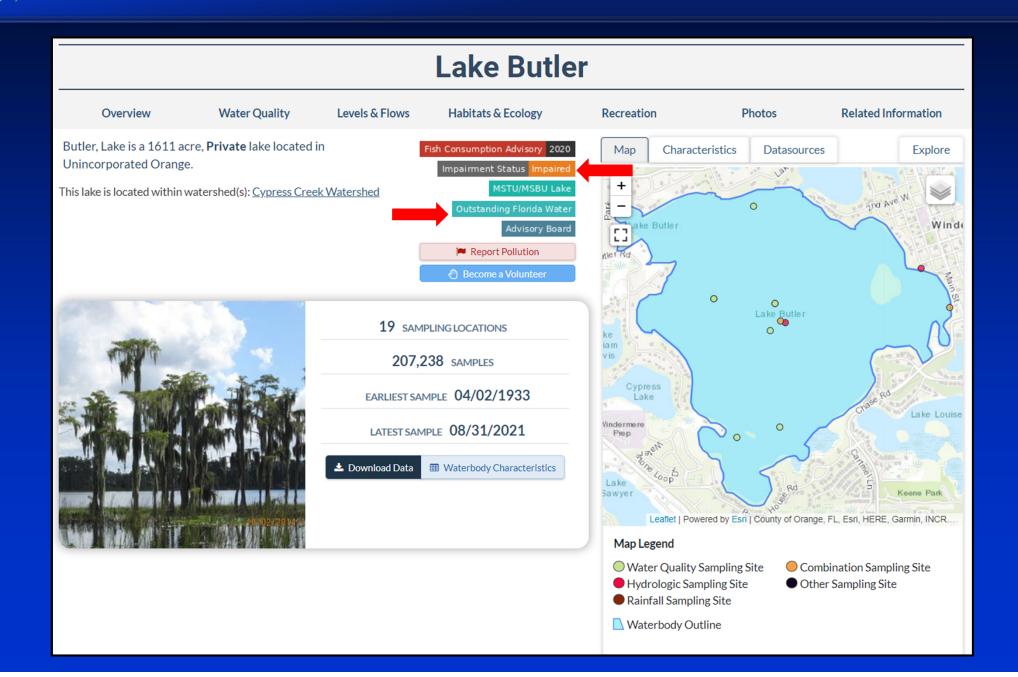


**Site Plans** 



This will take you to the lake page.

**Site Plans** 





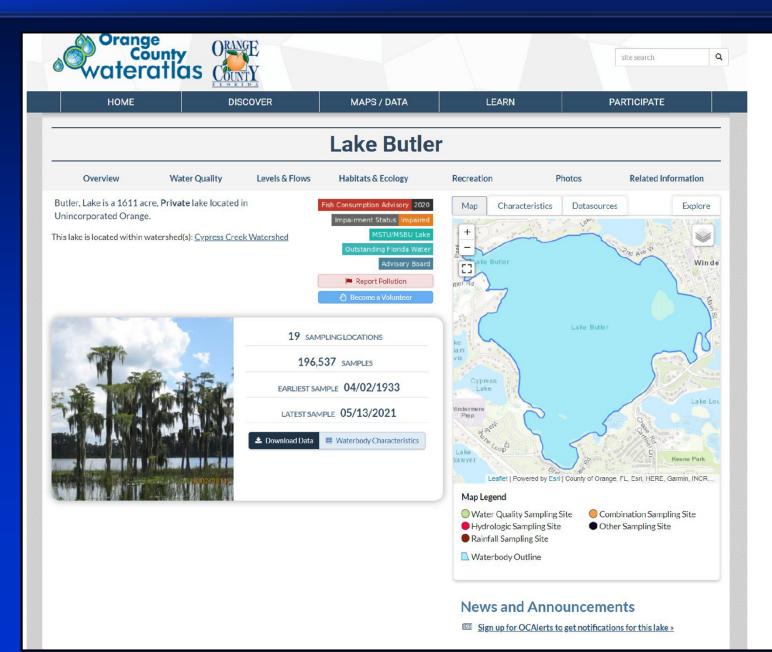
# Area to be replanted: ~4,734 sq. ft. Impaired or OFW requires 1-foot spacing and a minimum of five species

Area	÷
Area:	4734 ft <sup>2</sup> •
Plants Spacing:	1 ft ▼
riants opaonig.	1 10
Planting Pattern:	
Square 🔵 🔵 Triangle	
<u> </u>	
CALCULATE RESET S	
Result	
NUMBER OF PLANTS:	
4 734	
	EMBED <>
<b>☆☆☆☆☆ (15</b> votes, average: <b>4.53</b> out of 5)	
Similar Calculators:	
Similar Calculators.	



All plans shall accurately depict any easements and the location of the NHWE.
All plans shall accurately depict the location of the "access corridor" for accessing the waterbody, if proposed.





How to find the NHWE. Navigate to the Lake's page in the Orange County Water Atlas. Scroll to the bottom until you find the Lake Fact Sheet.



#### **RELATED INFORMATION**

Fish And Wildlife Links

• S Fish Orlando! Big Water Bodies

View All Related Links

#### General Links

- 🔁 Butler and Big Sand Lake Chain of Lakes Reconnaissance Study
- 🔁 Ecological Assessment: Cypress Creek Swamp & Butler Chain of Lakes Natural Water Level Fluctuations
- 🔁 Lake Butler Water Data, Oct.-Dec. 2015 -
- 🔁 Lake Fact Sheet: Lake Butler
- 🔁 Lake Tibet Sub-Basins 1 and 2 Current Conditions Update; Final Report February 2021
- 🔁 Lakefront: A Stewardship Guide for Orange County Lakefront Homeowners
- 🔁 Northern Butler Chain-of-Lakes Sediments Impacts Analysis Draft Final Report November 2020
- • OCAlert.net
- District MSTU Map

View All Related Links

#### Habitats And Ecology Links

- 🔀 Comparison of Plants in Six Orange County Lakes
- 🖓 Lake Vegetation Index Data for Lake Butler -- 03 May 2010
- 🔁 Lake Vegetation Index Summary Form for Lake Butler 6 September 2017
- 🖓 Macroinvertebrate Program 2006 Annual Report
- 🔀 Macroinvertebrate Program 2007 Annual Report
- Plant Species List for Lake Butler

#### View All Related Links

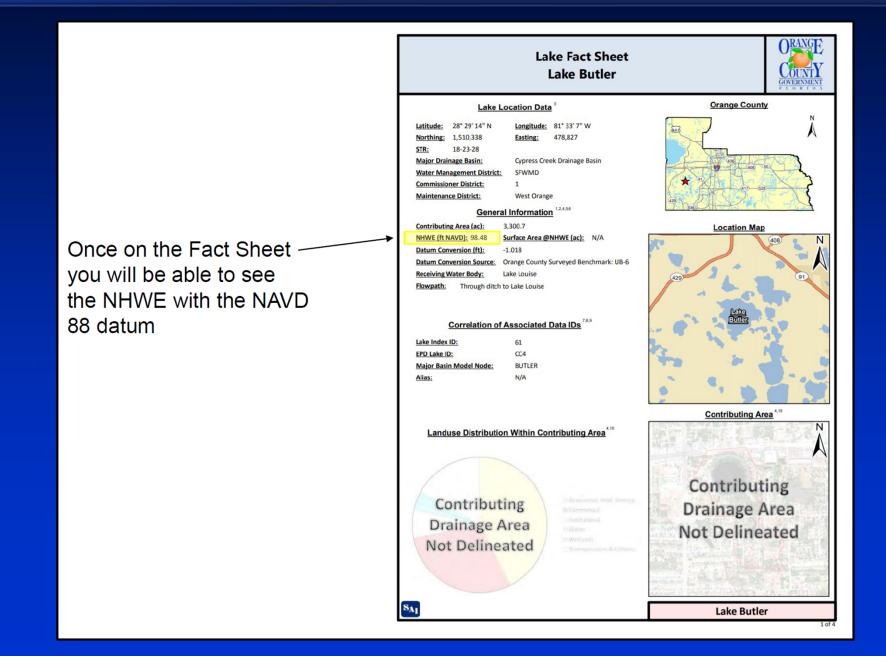
#### **Programs Links**

- Adopt-A-Lake Quarterly Report for Lake Butler NE Cove, Jan.-Apr. 2012
- 🖪 Butler Chain of Lakes "WaterWorks" Newsletter-Winter 2013
- S Butler Chain of Lakes Advisory Board
- D Butler Chain of Lakes Summary of Projects 2006-2009
- 🔁 Report... on the Proposed Desig. of the Butler Chain of Lakes as Outstanding Florida Waters--Part 1
- 🔁 Report... on the Proposed Desig. of the Butler Chain of Lakes as Outstanding Florida Waters--Part 2
- 🔁 Report... on the Proposed Desig. of the Butler Chain of Lakes as Outstanding Florida Waters--Part 3
- 🖓 Report... on the Proposed Designation of the Butler Chain of Lakes as Outstanding Florida Waters

Click on the Lake Fact Sheet. This will open a PDF of the fact sheet.

View All Related Links







#### WATER LEVELS & FLOWS

Hydrologic data describe physical properties of water such as how fast it is moving and how deep it is. Click the Learn More links to explore the significance of each parameter and how it is measured.

#### Water Levels

Water levels in Florida are seasonal, with higher levels during the state's rainy summer and fall months. Recent water level data are shown below, along with historical and regulatory values to provide context. Learn more about lake water levels »

		Water Levels NAVD88	
Latest Value	<b>98.59</b> ft.	1 day ago (1/30/2022)	Source: ORANGECO DATA LOGGERS
Historic Norm for Month	<b>98.74</b> ft.	1976 - 2022	
Historic Range	2.35 - 103.7 ft.	9/1/1970 - 1/30/2022	2,262 samples
FEMA Levels	<b>102.3</b> ft. — FEMA 100-Year <mark>98.48 ft — NHWE Flood</mark>	Flood	
Graphs and Data	View Graph of Data	📩 Download Data	

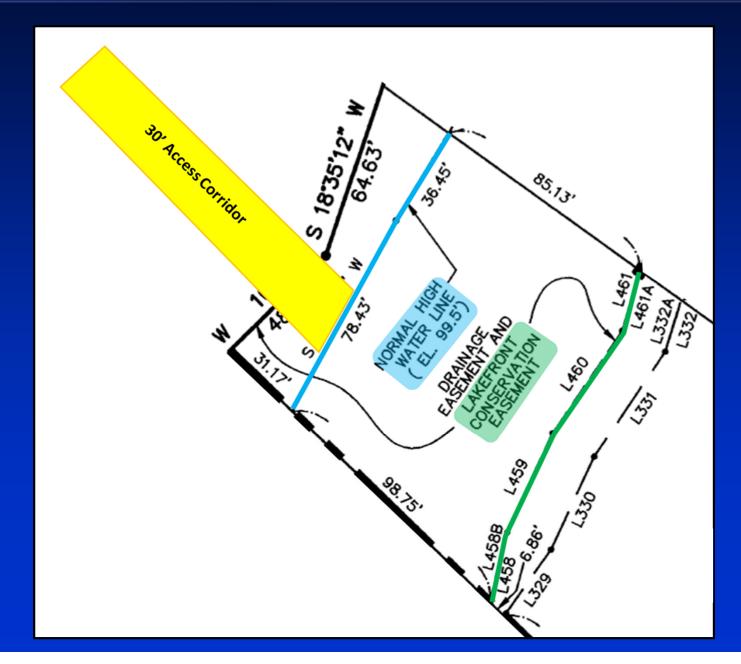
# \*Or by scrolling down to the Water Levels Section



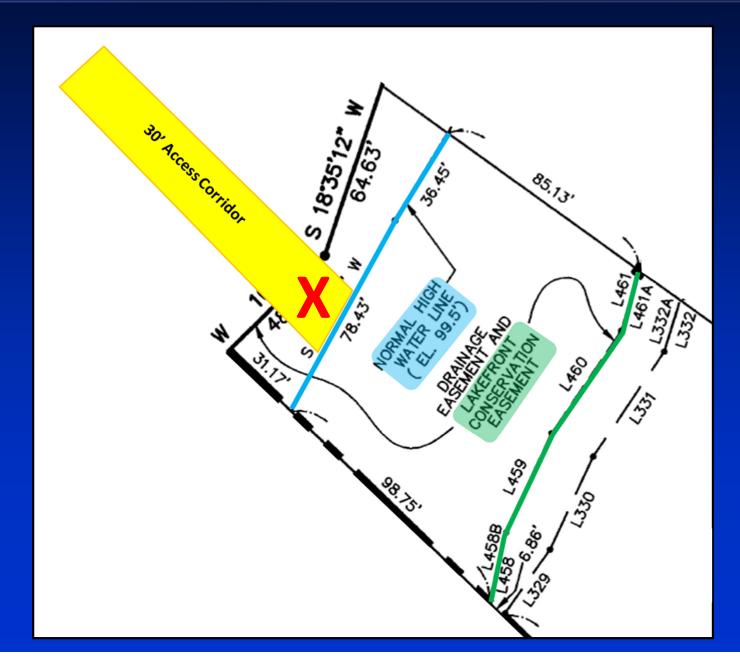
# What is an access corridor and how do I get one?

- A property owner may clear all vegetation in an area 30 feet wide or 20% of their total shoreline length as measured at the NHWE, whichever is greater, for lake access.
- The access corridor is only allowed below the NHWE.
- No access corridors are allowed in wetlands or CEs.
- Native trees and woody vegetation are not included in what can be removed and must remain, unless specified and approved.
- Any aquatic species listed as threatened, endangered, or commercially exploited are not included and must remain.
- Structures such as boat docks or boat ramps must be co-located in the access corridor and shown as such on the plans.

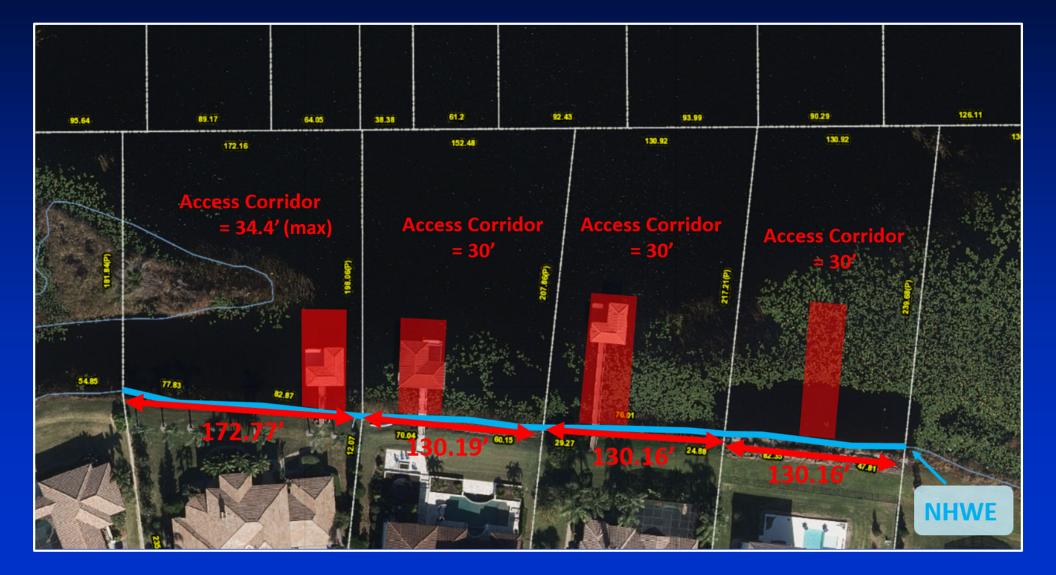












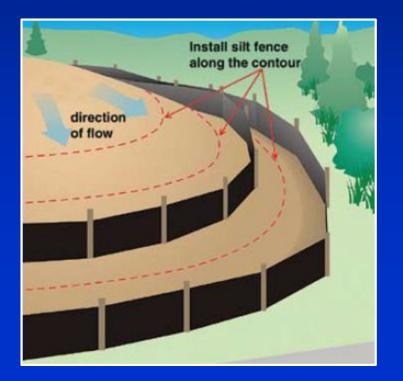


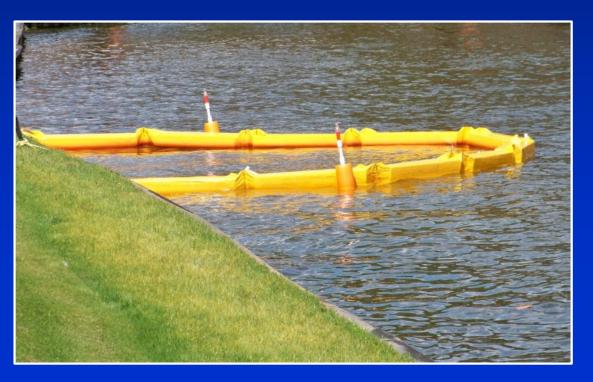




• All removal and replanting plans shall include the location and type of Best Management Practices (BMP).

 All BMPs must be installed <u>prior</u> to any work being done within a surface water or wetland and must remain in place throughout the duration of the project and until all sediments have settled.







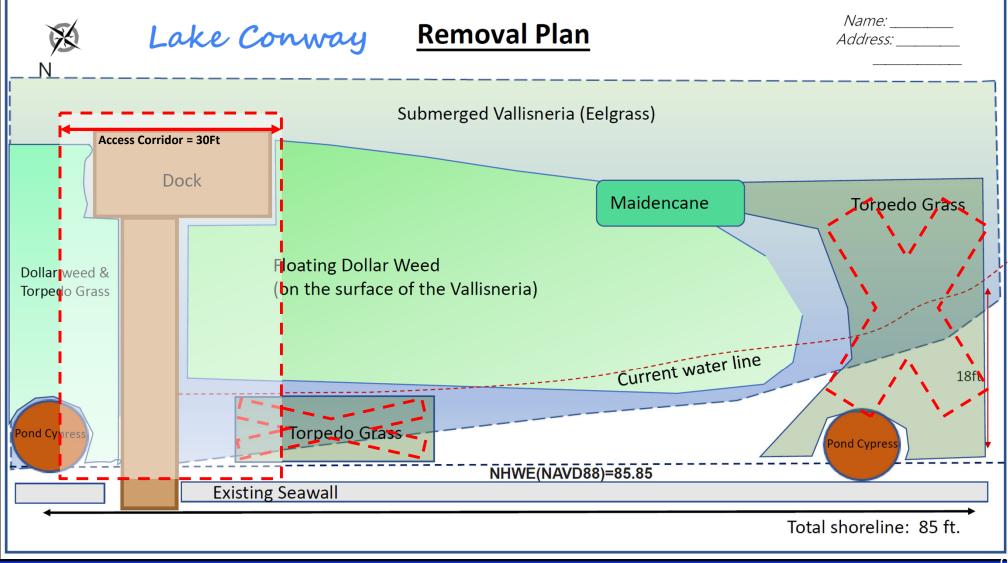
- Trees greater than 10 feet in height may be pruned or "limbed up" by removing up to 25 percent of the canopy.
  - Must utilize American National Standard Institute (ANSI) standards for tree pruning and trimming operations. The ANSI standard for tree pruning is ANSI A300.
- Snags or fallen native tree species shall <u>remain in place</u> unless they are a potential hazard to persons or structures.
  - If maintenance of a snag is necessary, at least ten feet of the snag should be left standing to create habitat for wildlife (woodpeckers, insects, etc.) and in most cases, the associated debris must be left in the conservation area.
- Generally, cypress knees may not be removed, cut, or shaved, unless they pose a potential problem for an existing structure.
  - **\*\*** Please show these on your plans if you intend to remove any of the above



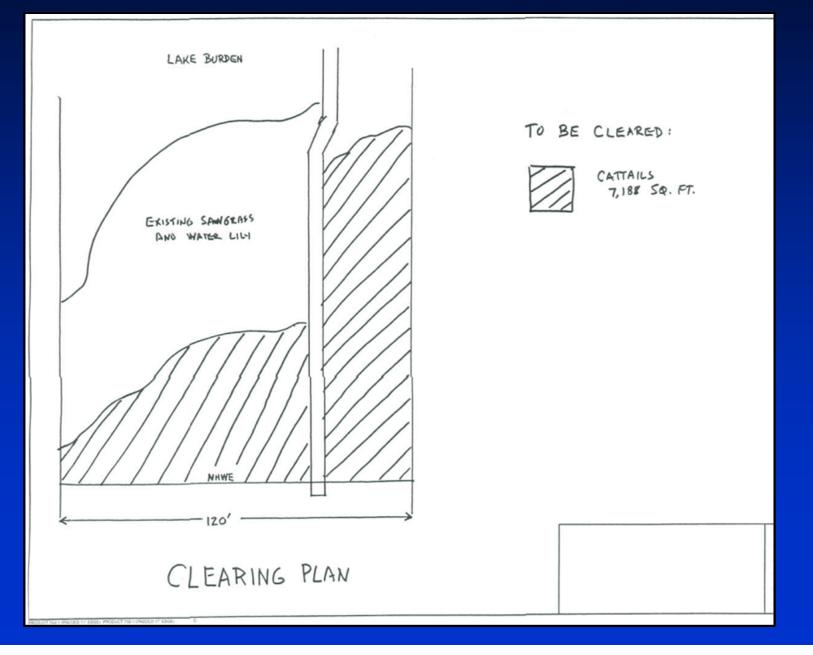
### State the method to be used for vegetation removal.

- No heavy equipment (e.g., backhoes, trackhoes, "bobcat"-type loaders, etc.) may be used that may alter the topography, impact the soil or result in excessive turbidity.
- State and show the locations of the species proposed for removal.
  - Species identified as Category I and II invasive exotics on the Florida Exotic Pest Plant Council's (FLEPPC) current Invasive Exotic Plant List will be approved for removal.
  - Native "nuisance" plants may be proposed for removal. <u>Approval for</u> removal will up to EPD's discretion.
  - Vines may be removed if they pose a nuisance and are "outcompeting" other native vegetation.











State the size, approximate number, and spacing of each species proposed to be planted:

- <u>Groundcover plants</u> shall be planted on 2-3 foot centers, typically bare-root or 1-gallon sized containers, depending on the species.
- <u>Understory shrub</u> species shall be planted on 5-10 foot centers, typically a minimum of 3-gallon sized container material.
- -<u>Tree</u> species shall be planted on 10-20 foot centers, typically a minimum of 7-gallon sized containers.



# **REMEMBER**:

 Plantings on impaired waters or waters designated as an Outstanding Florida Water (OFW) (such as the Butler Chain):

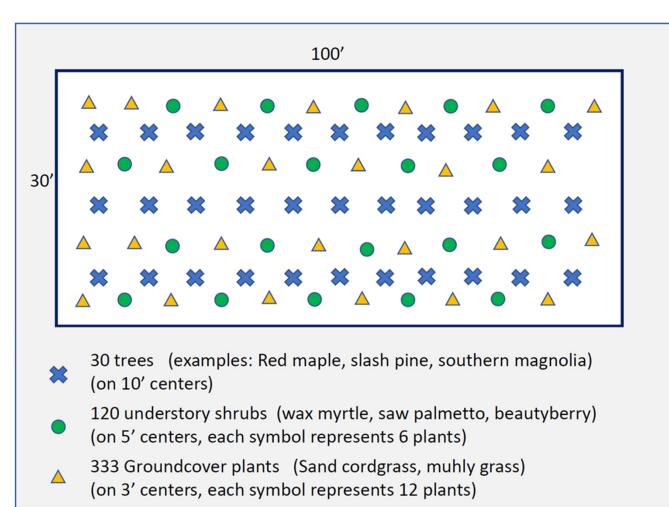
- Must be planted on 1-foot centers, and
- Must be comprised of at least five different species.

Species should be replaced like-for-like:

- Replace invasive trees with native trees.
- Replace invasive shrubs with native shrubs.



#### **Example Buffer Restoration Plan - Linear**



Example Cost Estimate

7-gallon red maple - \$15/each 30 trees = \$450 3-gallon red maple - \$6/each 30 trees = \$180

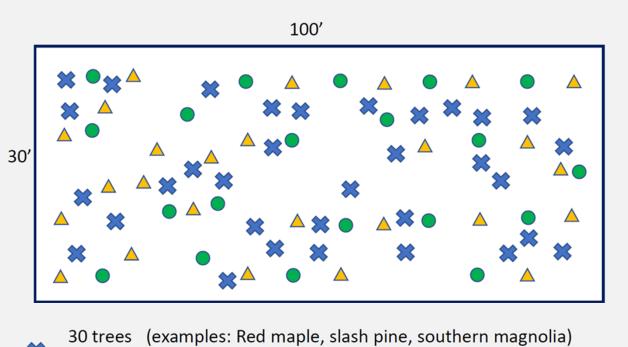
3-gallon wax myrtle - \$8/each 120 shrubs = \$960 1-gallon wax myrtle - \$3.50/each 120 shrubs = \$420

```
1-gallon cordgrass - $3.50/each
333 plants = $1,165
Bareroot cordgrass - $0.50/each
333 plants = $166.50
```

Based on size of the plant the costs could range from \$766.50-\$2575



#### **Example Buffer Restoration Plan - Clumped**



- 30 trees (examples: Red maple, slash pine, southern magnolia) (on 10' centers)
- 120 understory shrubs (wax myrtle, saw palmetto, beautyberry) (on 5' centers, each symbol represents 6 plants)
- 333 Groundcover plants (Sand cordgrass, muhly grass) (on 3' centers, each symbol represents 12 plants)

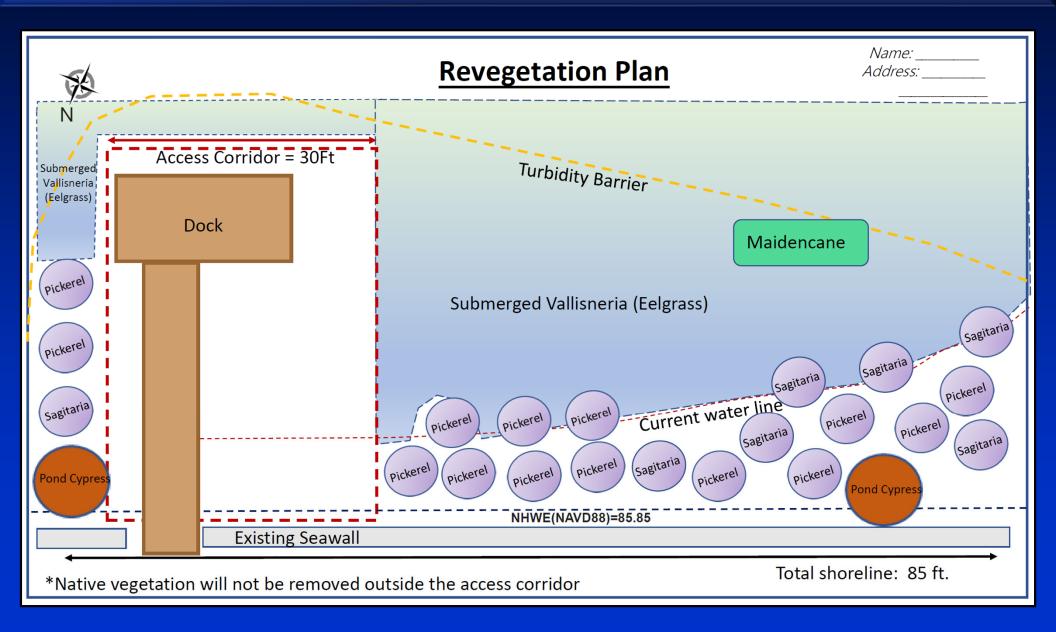
Example Cost Estimate

7-gallon red maple - \$15/each 30 trees = \$450 3-gallon red maple - \$6/each 30 trees = \$180

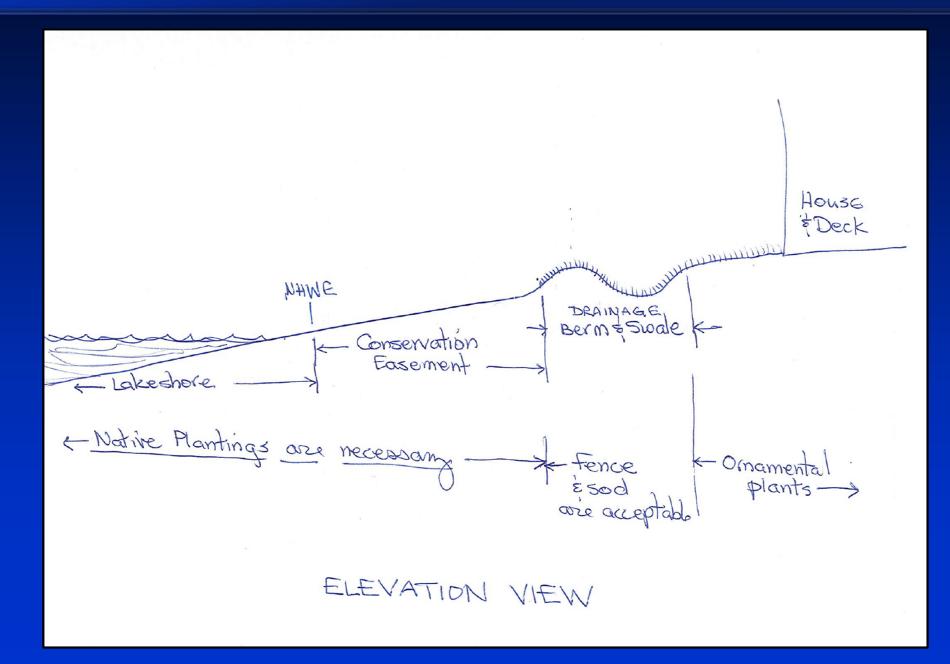
3-gallon wax myrtle - \$8/each 120 shrubs = \$960 1-gallon wax myrtle - \$3.50/each 120 shrubs = \$420

1-gallon cordgrass - \$3.50/each 333 plants = \$1,165 Bareroot cordgrass - \$0.50/each 333 plants = \$166.50

Based on size of the plant the costs could range from \$766.50-\$2575 **Site Plans** 







## **Environmental Protection Division**

# **Permit Issuance**



Only remove what is allowed per the approved removal plan.

Replant within <u>30 days</u> of vegetation removal.

Per IFAS Extension: "Aquatic plants can be planted any time of year in Central Florida. The water is usually lower in the spring season (January - May) and it is easy to plant the aquatic plants during that time. Once we get heavy summer rains the water level can get deep and you can still plant but it will be deep and maybe more difficult to plant by hand."



- Replant what is listed on the approved replanting plan.
- Fill out the EZ Monitoring Form prior to the work being done, and then after the work is completed.
- Take photographs of the shoreline before and after the work is complete.



# **Permit Issuance**



#### ORANGE COUNTY ENVIRONMENTAL PROTECTION DIVISION BASELINE EZ MONITORING REPORT

Return form to:

Email: Orangetogreen@ocfl.net Attn: Permitting Supervisor FAX: 407-836-1499

DATE:

PERMIT #

Date project planting completed:

#### Complete the following table for the planting area(s) associated with the permitted activities:

STRATA	Check If Used	APPROXIMATE % COVER	APPROXIMATE % SURVIVAL	SPECIES NAMES (If Other)	
Trees	Lange 1				Sec. 10 - 10
Cypress					
Red Maple			÷	a	
Sweet Bay					
Dahoon Holly					
Lobiolly Bay	100				
Other(s)					
Shrubs				the faile shares a first strates for the	
Wax Myrtle				n andre of the second second state of the second state of the second state of the second second second second s The second se	
Buttonbush					
Other(s)					
Ground Covers					
Canna Lily				<i>B</i>	
Pickerelweed					
Duck Potato		e			
Sand Cord Grass					
Spike Rush		1			
Fachahatchee					
Blue Flag Iris					
Muhly Grass					
Maidencane					
Other(s)					
TOTAL % COVER					
Exotic/Nuisance			ALC: NO PORT		

Attach the following information:

• A copy of the approved planting plan.

• Representative photographs of the planting area(s).

A description of any problems encountered

I hereby certify that the above information is true and factual.

Printed Name

Signature

Date

COUNTY	ORA	4,46243	กระทุกให้เกิด เทศการกระทุกกระทุก	NTAL PROTECTIO	40 12		
		Return form t	o:				
DATE:			Email: Orangetogreen@ocfl.net Attn: Permitting Supervisor FAX: 407-836-1499				
PERMIT #	Year#		Year#				
			10. 10.				
Date project planting	g complete	ea:		10			
Date(s) of site inspec	tion(s)/ma	aintenance visit(s	since previous repor	t:			
Complete the followi	ing table f	or the planting ar	ea(s) associated with	the permitted activitie	s:	mo	
STRATA	Check APPROXIMATE				SPECIES NAMES (If Other)		
SHARA	a second second second	% COVER	% SURVIVAL	51 2025 10	in outer)		
Trees							
Cypress				e Malander I. V. Britler, J. H. Charde Market (Britler, Son Son, Son, Son)			
Red Maple	1					2	
Sweet Bay							
Dahoon Holly							
Lobiolly Bay							
Other(s)							
Shrubs							
Wax Myrtle							
Buttonbush						· · · ·	
Other(s)							
Ground Covers				Service States			
Canna Lily	the Charles of the Internet	a de de cara de la compañía de la c					
Pickerelweed							
Duck Potato	112						
Sand Cord Grass							
Spike Rush							
Fachahatchee							
Blue Flag Iris							
Muhly Grass							
Maidencane		1980					
Other(s)							
TOTAL % COVER							
Exotic/Nuisance	· 如此 100 年10						

### **Environmental Protection Division**

#### Before



After



- New plantings must be installed within <u>30 days</u> of completion of removal of invasive exotic vegetation.
- After one year, EPD staff will conduct a site inspection to confirm that the new plantings have survived and established.
- Successful establishment will have occurred when:
  - At least 80 percent areal coverage of the shoreline by appropriate wetland/aquatic species has been obtained.
  - The enhancement/restoration area comprises less than 10 percent areal coverage of invasive/exotic vegetation, as listed in the FISC List (as amended from time to time).
  - For properties not meeting the above criteria, the permittee may be required to install additional plantings and continue monitoring until the success of the planting areas has been demonstrated.

- Permits shall be issued with a one-year "construction" phase for the permittee to complete the initial restoration work.
- However, LSP and NGP permits shall be valid in an "operational" phase for as long as the permittee owns the property and the lakeshore or conservation easement is maintained and in compliance with all permit conditions.
- Permits are transferrable to new owners if property is sold.
   Permit transfer forms shall be completed by permittee.
- Renewal of the permit is not necessary unless the lakeshore or wetland have not been maintained and are no longer in compliance with permit conditions.

- White sand beaches
- Removal of all vegetation and no replanting
- Cutting down trees/woody shrubs
- Not enough replanted vegetation
- Not meeting success criteria
- Not following permit





### **Environmental Protection Division**

### **Restoration Success Examples**





## **Restoration Success Examples**























### **Environmental Protection Division**

# **Living Lakeshores**





https://www.orangecountyfl.net/Environment/ HealthyLakesNeedLivingLakeshores.aspx





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