Aquatic Vegetation, Litter and Debris Rule Making Vegetation and Debris Management Plan

South Florida Water Management District Public Workshop April 26, 2023 Rich Virgil, P.E., PMP Director - Field Operations

Vegetation and Debris Management Plan

Example of Items that could be included in a Management Plan:

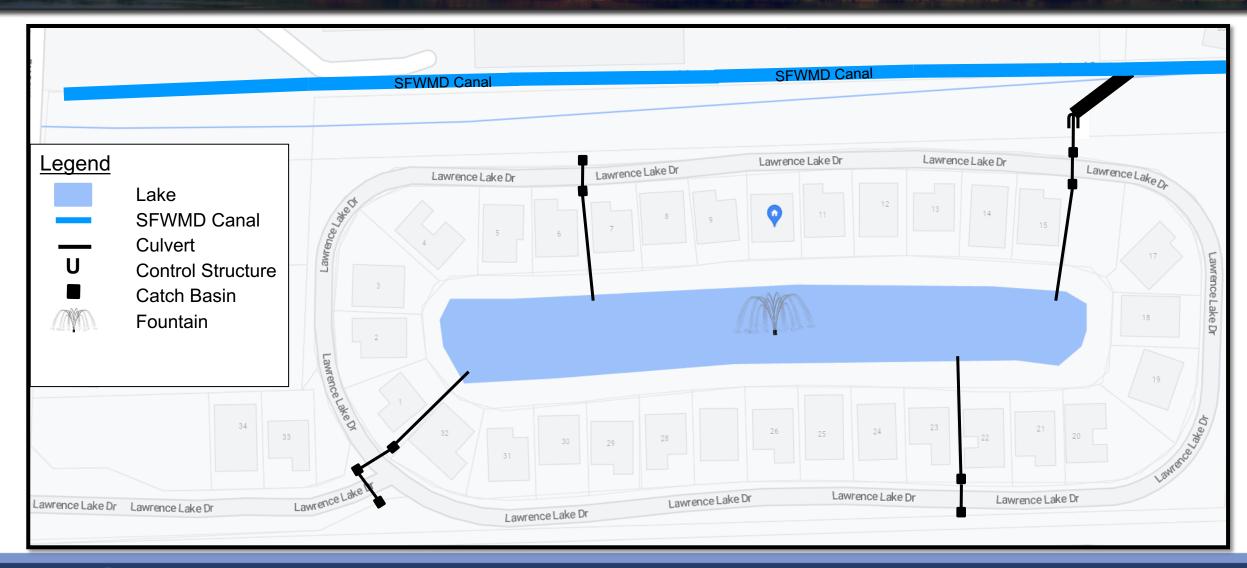
- Site Plan of surface water management system identifying system features such as but not limited to:
 - Ditches, canals, laterals, water control structures, culverts, pump stations, lakes, vegetation and debris barriers, etc.
 - System connection point to the C&SF Flood control system.
- Best Management Plan Implementation schedule (new activities & features)
- Maintenance Plan
- Copies of Documents such as but not limited to:
 - Inspection Reports
 - Invoices for equipment, services, repairs, etc.
 - Contracts for services

Vegetation and Debris Management Plan



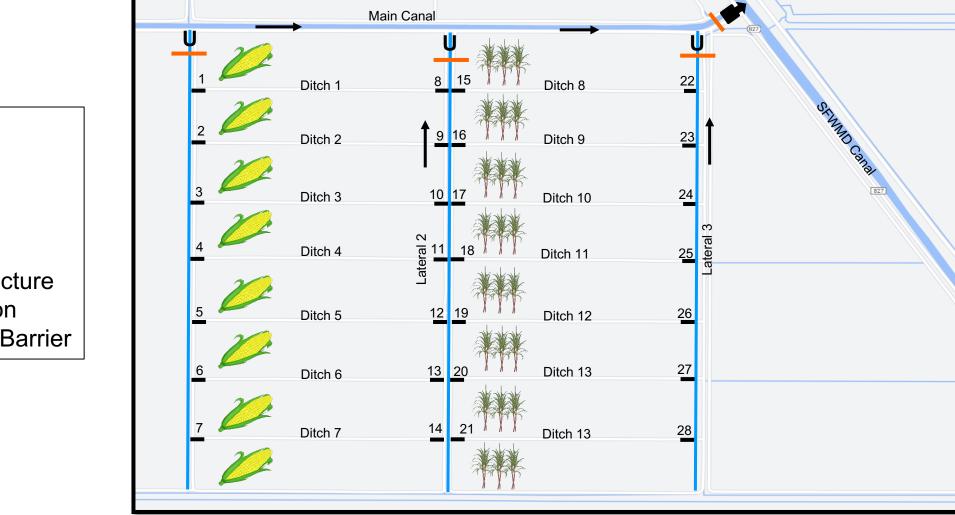


HOA Site Plan Example



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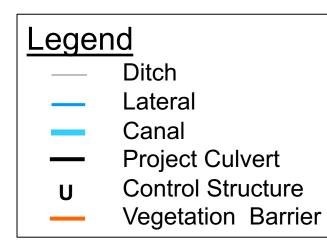
Farm Site Plan Example

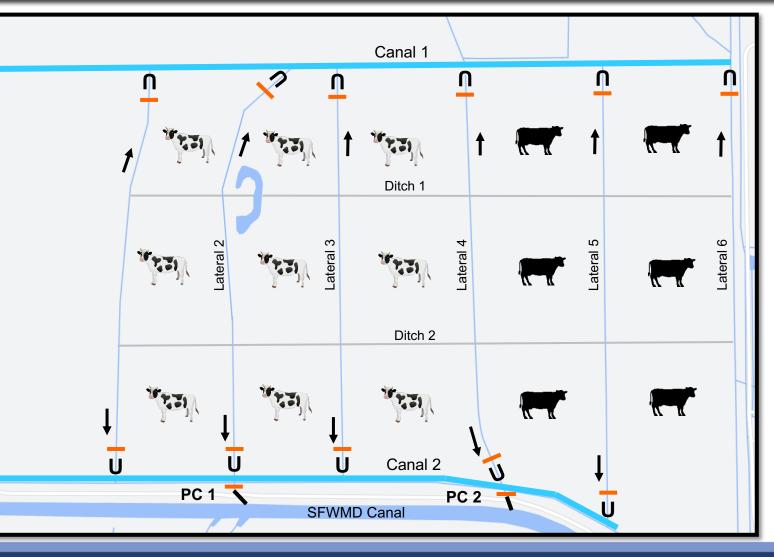


Legend

- Ditch
 Lateral
 Canal
 Culvert
 Control Structure
 - Pump Station
 - Vegetation Barrier

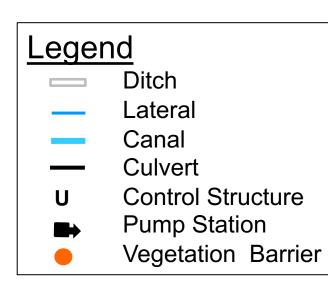
Pasture Site Plan Example



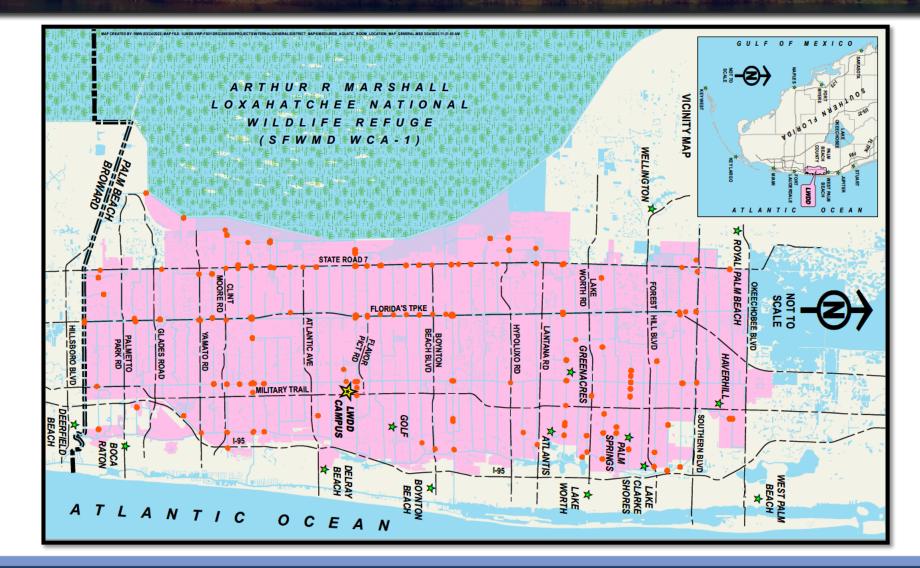




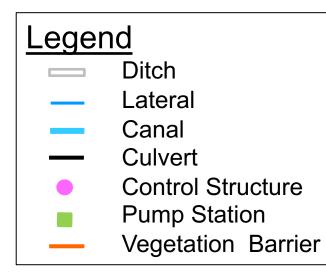
298 District Site Plan Example

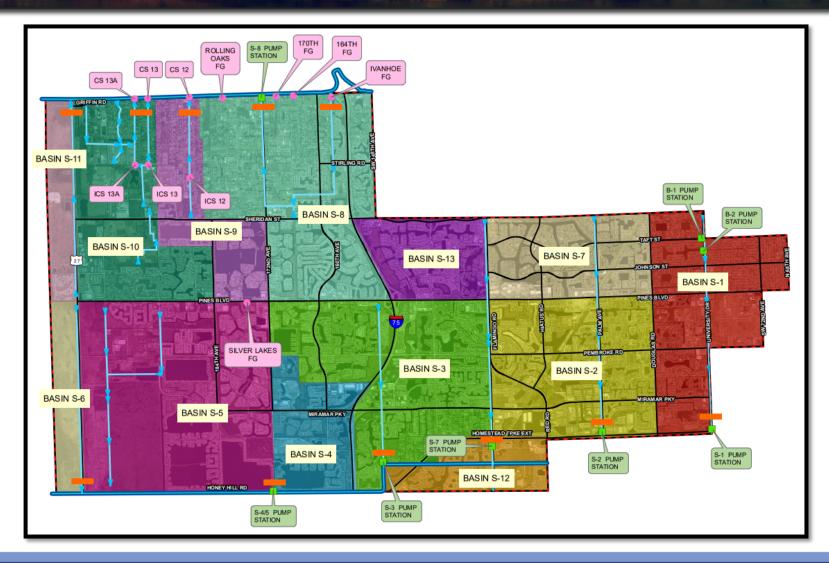


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298 District Site Plan Example





Types of Best Management Practices

- Installation and periodic inspection of barriers at all discharge points to the C&SF Flood Control System or other Works of the District.
- Periodic maintenance of the barrier including mechanical removal of vegetation and debris to minimize discharges to the C&SF Flood Control System or other Works of the District.
- Periodic maintenance of drainage infrastructure including mechanical removal of vegetation and debris to minimize discharges to the C&SF Flood Control System or other Works of the District.
- Use of herbicides to minimize to development and accumulation of vegetation which could discharge to the C&SF Flood Control system or other works of the District.

Types of Best Management Practices



<u>Canal</u>

Culvert

Water Control Structure

Typical Barrier Placement for Various Types of Connections

Maintenance Activities



Mechanical Removal of Vegetation From Barrier





Storm Drain Cleaning



Mechanical Removal of Debris From Barrier

Maintenance Plan Example

					Vlaintena	ance Plar	ו					
	Jan	Feb	March	April	May	June	July	August	Sept	Oct	Nov	Dec
Inspections	x					x						
Ditches	x					x						
Laterals	X					x						
Canals	X					х						
Culverts	X					Х						
Control Structures	X					х						
Pump Station	X					X						
Vegetation Barrier	X					X						
Mechanical Cleaning	:											
Ditches		X	X									
Laterals				X	X							
Canals						X	х					
Culverts								X				
Control Structures									X			
Pump Station										X		
Vegetation Barrier	X			X			Х			X		
Herbicde Application	1											
Ditches		X					Х					
Laterals		X					Х					
Canals		X					х					
Culverts		X					Х					
Control Structures												
Pump Station												
Vegetation Barrier												
<u> </u>												

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Mechanical Ditch Cleaning

Equipment

Initial Investment:

Equipment Long Reach Excavator Trash Truck

- Conver Boat
- Tuff Booms

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Long Reach Excavator



Trash Truck

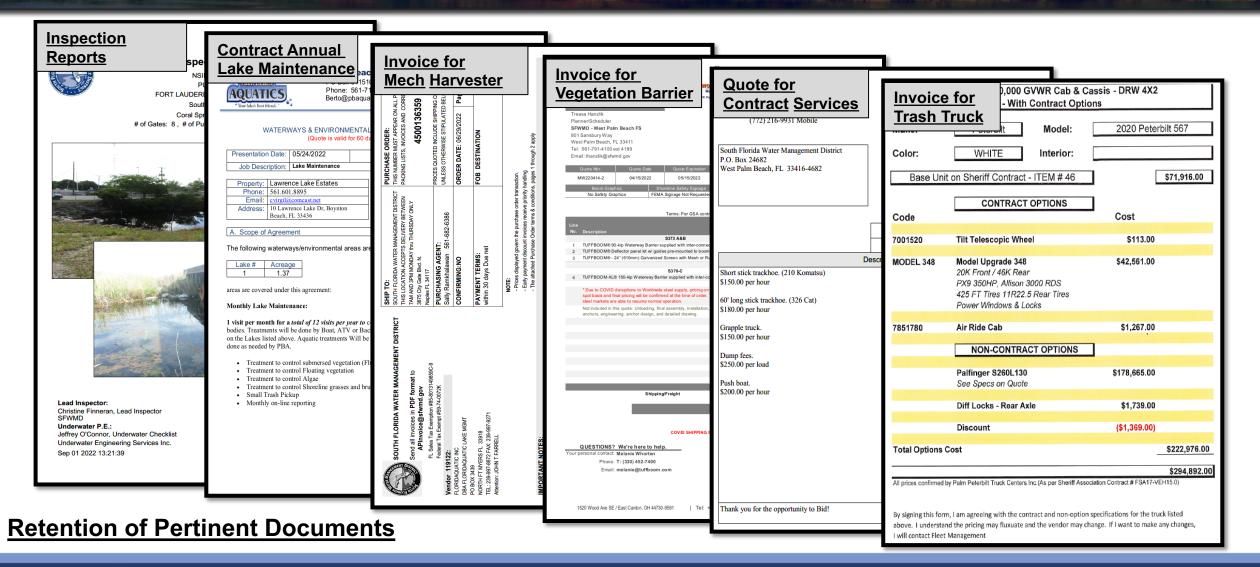


Convert Boat



Tuff Booms

Copies of Documents



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Aquatic Vegetation, Litter, and Debris Entering District Waterways



