



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PLAN FIELD SHEET

January 2020

Meter Passed End
of Day CCV
Yes / No

WIN Station Name: Englewood Ditch @ Indian Ave **Date:** 10/19/2021
WIN/Field ID: G2SD0022 **WBID:** 2050 **ENR:** - **Latitude:** 26.98
County: SARASOTA **Org ID:** 21FLFTM **Longitude:** -82.36
Receiving Body of Water: Charlotte Harbor **RQ:** 2021-10-18-49

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Nicole Reistad					x
☒	Thomas Baker		x		x	
☒	Monica Jaeger	x		x		
☐						

Sampling Equipment	
☒ Sample Container	☐ Carboy
☐ Dipper	☐ Van Dorn
☒ Syringe	☐ Pole
Depth measured with: Secchi	
Secchi Equipment ID: DEEPER BLUER	
Collection Method	
☒ Wading	☐ Canoe/Kayak
☐ From Shore	☐ Electric Motor
☐ Other _____	☐ Gasoline Motor

Water Level: ☒ Normal ☐ Low ☐ High ☐ Dry ☐ Pooled ☐ Flooded						Meter ID# FRIDAY							
Photos: No		Flow: No FLOW		Tide:		Tide Times: High: Low:							
Biological Samples Collected: ☐ None ☒ HA ☐ SCI ☒ RPS ☐ Algae ID ☒ LVS ☐ LVI Other:													
SBIO ID Numbers:													
Notes:													

Duplicate Sample

Time Zone: EST	Time:	Field ID:	(WIN ID_DUP)
WIN DMT Activity ID:			

Blank

Time Zone:	Time:	Field ID:	(Blank Type_DDMMYYYY)
DI Source:	Location:		
DI Type:	Equipment ID:		
DI Container (Name/ID):		DI Container Type:	

LIMS EVENT ID: WIN Import ID:
Enter Field Parameters, Verify Station ID In LIMS DMT: QC Station ID, Field Parameters In LIMS DMT:
(Initials/Date) (Initials/Date)
Scan/Save Field Sheets Migrate Data to WIN: Verify Data In WIN:
(Initials/Date) (Initials/Date) (Initials/Date)



RQ-2021-10-18-49

Customer: WQAP

Project ID: SMP

Collected By: Nicole Reistad, Thomas Baker

Field Report Prepared By: Nicole Reistad

Sampling Agency: FDEP

Place Label Here

WIN ID/Field ID:



G2SD0022

Location: Englewood Ditch @ Indian Ave

Comments:

Matrix: Fresh

(Check one)

☒ GRAB☐ COMPOSITE

Date	Time	DO (mg/L)	DO (%SAT)	Temp. (C°)	pH	Sample Depth (m)	Secchi Disk (m)	Total Depth (m)	Sp COND (µmhos/cm)	Salinity (PPT _h)		
	1230 EST	3.03	38.3	26.1	7.46	0.08	0.15 ☒ VOB (S)	0.15	1003	0.49		
10/19/2021												
	EST											
Parameter Suite		Parameter Methods				Preservation		pH Check	# Bottles sent to Lab	Bottle Group		
Preserved Nutrients (P-500ML)		☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP				☒ Ice ☐ H2SO4*		☒ <2	1	A		
		Lot #	SA1105060		Exp:	04/30/22						
Metals (P-500ML)		☒ W-ICPMS ☒ W-ICP ☒ W-HARD				☒ Ice ☒ HNO3*		☒ <2	1	A		
		Lot #	NA1105100		Exp:	07/07/2022						
Filtered Nutrients (P125ML)		☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter				☒ Ice			1	A		
		Filter Lot #	17162587									
		Syringe Lot #	1091364									
Chlorophyll (BP-1L)		☒ CHLSUITE-W				☒ Ice			1	A		
Physical/Aggregate (Fresh) (P-1L)		☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS				☒ Ice			1	A		
Physical/Aggregate (Marine) (P-1L)		☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY				☐ Ice						
Macroinvertebrates (PJ-2L)		☐ MI-FW-QLDC	Formalin Lot #			☐ Formalin						
Periphyton (PT-50ML)		☐ ALGAE-ID				☐ Ice						
Microbiology (Contract Lab Bottle)		☐ E Coli ☐ F Coli ☐ Enterococci ☐ Contract Lab				☐ Ice						
Molecular (QPCR-P-500ML)		☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-DG3				☐ Ice						
		☐ PCR-GULL2 ☐ PCR-GFD ☐				☐ Ice						
Tracers (BG-500ML)		☐ W-E8321-DI ☐ W-E8321-MS				☐ Ice						
Pesticides (BG-500ML) (BG-1L)		☒ W-E8321-DI	☒ WE8321-MS	☒ W-PSNP-TQ	W-CT-CL-R	☒ Ice			5 or 3	A		
Phytoplankton/Periphyton		W-PCL-TQ-R		W-CARB-AA (5 ml of MCAA** Buffer Solution)								
				DTY-QN-C								
				PKD-QN-BV				☐ Ice				
Name: Nicole Reistad Thomas Baker					Signature:				Date:			

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

DEP-SOP-001/01: Form FD 9000-5
STATE OF FLORIDA, DEPARTMENT OF ENVIRONMENTAL PROTECTION
STREAM/RIVER HABITAT ASSESSMENT FIELD SHEET

SUBMITTING AGENCY CODE: <u>2111-ETM</u>		STORET STATION NUMBER: <u>G25D022</u>	DATE (MM/DD/YY): <u>10/19/21</u>	RECEIVING BODY OF WATER: <u>Charlotte Harbor</u>
SUBMITTING AGENCY NAME: <u>FL DEP-SROC</u>				
REMARKS:	COUNTY: <u>Sarasota</u>	LOCATION: <u>Wagner Ditch @ Indiana Ave</u>	FIELD ID/NAME: <u>G25D022</u>	

Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components	Four or more major productive habitats present (snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock)	Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh leaves or snags)	Two major productive habitats present. Less than desirable habitat, frequently disturbed or removed	One or less major productive habitat. Lack of habitat is obvious, substrates unstable or smothered
Substrate Diversity <u>1</u>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 <u>(1)</u>
Substrate Availability <u>1</u>	Greater than 30% major productive habitat present at site 20 19 18 17 16	16% to 30% major productive habitat, by aerial extent 15 14 13 12 11	6% to 15% major productive habitat 10 9 8 7 6	Less than 5% major productive habitat 5 4 3 2 <u>(1)</u>
Water Velocity <u>1</u>	Max. observed at typical transect: > 0.25 m/sec. But < 1 m/sec ≥0.33 0.31 0.29 0.27 >0.25 20 19 18 17 16	Max. observed at typical transect: >0.1 to 0.25 m/sec 0.25 0.21 0.17 0.13 >0.1 15 14 13 12 11	Max. observed at typical transect: 0.05 to 0.1 m/sec 0.1 0.09 0.07 0.06 0.05 10 9 8 7 6	Max. observed at typical transect: <0.05 m/sec; or spate occurring: > 1 m/sec <0.05 0.04 0.03 0.01 <0.01 5 4 3 2 <u>(1)</u>
Habitat Smothering <u>1</u> ----- Primary Score <u>4</u>	Adequate number of stable pools (1-2 per 12 times width) and <25% of habitats affected by sand, silt, or algae. 20 19 18 17 16	Adequate number of stable pools (1-2 per 12 times width) and >25% of habitats affected by sand, silt, or algae. 15 14 13 12 11	Does not have required number of stable pools (1-2 per 12 x width) and/or has shallow pools (<2 x prevailing depth). 10 9 8 7 6	Stable pools are absent. Most habitats affected by sand, silt, or algae accumulation. 5 4 3 2 <u>(1)</u>
Secondary Habitat Components	Expected sinuosity given the stream width. No evidence of dredging or artificial straightening. No spoil banks.	Good sinuosity within old channelized area. Evidence of dredging in the past (>25 yrs) but mostly recovered.	Straightened with trapezoidal cross section, but has a small degree of sinuosity developed within channelized area.	Straightened or engineered by dredging, has trapezoidal or box cut cross section, lacks required pools. May have spoil banks.
Artificial Channelization <u>3</u>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 <u>(3)</u> 2 1
Bank Stability	Bankfull > 60% of bank height. Slope of bank ≤ 60° from bankfull to top of bank. Bankfull is within or above the root zone with few raw, eroded areas. 10 9	Only meets 2 of the 3 requirements for optimal bank stability. 8 7 6	Only meets 1 of the 3 requirements for optimal bank stability. 5 <u>(4)</u>	Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the root zone with raw, eroded areas. 3 <u>(2)</u> 1
Riparian Buffer Zone Width	Width of vegetation greater than 18 m Right Bank <u>2</u> Left Bank <u>10</u>	Width of vegetation >12 to 18m 8 7 6	Width of vegetation 6 to 12 m. human activities close to system 5 4	Less than 6 m of buffer zone due to intensive human activities 3 <u>(2)</u> 1
Riparian Zone Vegetation Quality	Over 80% of riparian surfaces consist of normal, expected plant community for given sunlight & habitat conditions (e.g., native plants; tree, shrub, and forbs represented, if appropriate). Minimal disturbance. Right Bank <u>2</u> Left Bank <u>7</u> ----- Secondary Score <u>32</u>	>50% to 80% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Some disruption in community observed. 8 <u>(7)</u> 6	25% to 50% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Disruption obvious. 5 4	Less than 25% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). 3 <u>(2)</u> 1

36 TOTAL SCORE

Date: <u>10/19/21</u>	Analyst: <u>Thomas Burke Nicole Reistad</u>	Signature: <u>[Signature]</u>
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DEP Form FD 9000-4 Stream/River Habitat Assessment Sketch Sheet

Location: Goldfish Creek

Date: 10/19/21

Sampler: Flora Baker

100 m: Latitude 26.98201074
Longitude -82.35685110

0 m: Latitude 26.98131489
Longitude -82.35754410

Substrates: Code key, draw proportionate habitat abundance. 1.1 %

 Snags 0.11

R Roots/undercut banks 0.003%

☒ Leaf Packs (or mats) 0

AIM	Aquatic Macrophytes	0.97%
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	<u>Rock</u>	<u>0.017%</u>
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total # observed = 0
range expected = 2-4

Average width 6 m
Average depth 0.50.2 m

Velocity measured at 20 meter mark.

WQ & chemistry taken at 0 meter mark.

Habitat Smothering:
Note areas (on map) where sand or silt is smothering substrates, limiting habitability.

Bank Stability:
Note areas (on map) with unstable, eroding banks.

Riparian Buffer Width:
Note areas (on map) where natural vegetation
is altered or eliminated.

Plants observed / other notes:

Velocity = 0 m/s

$$\frac{70.05 \text{ r/s}}{f_2}$$

Erosion
high bank

5.6 Am

Length of grid represents 100 m of stream (not linear meters).
(Horizontal scale is double vertical scale, draw proportionately).

5.75m

575m

DEP Form FD 9000-3 Physical/Chemical Characterization Field Sheet

SAMPLE ID _____ ORG ID 21FLETM LATITUDE 26.980048
 COUNTY Sarasota STORET # G2570022 LONGITUDE 82.358748
 DATE 10/19/21 TIME _____ SAMPLING AGENCY FDCA
 E NAME unnamed ditch @ Indiana Ave / Gold Fish Creek
 FIELD ID/NAME G2570022 RECEIVING BODY OF WATER Charlotte Harbor

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural ☐ Silviculture ☐ Field/Pasture ☐ Agricultural ☐ Residential ☐ Commercial ☐ Industry ☐ Other (Specify) ☐ <u>40%</u> ☐ ☐ ☐ <u>60%</u> ☐ ☐ ☐								Landscape Development Intensity Index (LDI) 	
Local Watershed Erosion (select one): ☐ None ☒ Slight ☐ Moderate ☐ Heavy Local Watershed NPS Pollution: ☒ No evidence ☐ Slight ☐ Moderate ☐ Heavy						Typical Width (m) Depth (m)/Velocity (m/sec) Transect 6 m wide			
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u>18</u> Right Bank: <u>3</u>				Hydrologic Modification Score (per FT 3101)				0.0 m/s 0.0 m/s 0.0 m/s	
High Water Mark: <u>0.5</u> + <u>0.15</u> = <u>0.65</u> (m) (above present water level) (present depth) (above bed)				Artificially Impounded ☐ Yes ☒ No				0.1 m deep 0.2 m deep 0.1 m deep	
Artificially ☐ No ☐ Mostly recovered, more sinuous Channelized: ☐ Some recovery ☒ Recent, severe				Canopy Cover % ☐ Open ☒ Lightly Shaded (11-45%) ☐ Heavily Shaded ☐ Moderate Shaded (46-80%)					

SEDIMENT / SUBSTRATE

Sediment Oils ☐ Absent ☐ Slight ☐ Moderate ☐ Profuse			Sediment Odors ☐ Normal ☐ Sewage ☐ Petroleum ☐ Chemical ☒ Anaerobic ☐ Other (Specify): _____			Smothering of Substrates Sand Smothering: None ☒ Slight ☐ Moderate ☐ Severe ☐ Silt Smothering: None ☐ Slight ☐ Moderate ☐ Severe ☒ Algae Smothering: None ☐ Slight ☒ Moderate ☐ Severe ☒																																		
SUBSTRATE TYPE Assessment Tool: ☒ SCI ☒ RPS ☒ LVS ☐ LCI ☐ BioRecon			WATER QUALITY <table border="1"> <thead> <tr> <th>Depth (M)</th> <th>Temp. (°C)</th> <th>pH (SU)</th> <th>D.O. (MG/L)</th> <th>D.O. Sat (%)</th> <th>Cond. (UMHO/CM)</th> <th>Salinity (PPT)</th> <th>SECCHI (M)</th> </tr> </thead> <tbody> <tr> <td>Top: <u>0.075</u></td> <td><u>26.1</u></td> <td><u>7.46</u></td> <td><u>3.03</u></td> <td><u>38.3</u></td> <td><u>603</u></td> <td><u>0.49</u></td> <td><u>0.15</u></td> </tr> <tr> <td>Mid:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>☒ VOB</td> </tr> <tr> <td>Bottom:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>						Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat (%)	Cond. (UMHO/CM)	Salinity (PPT)	SECCHI (M)	Top: <u>0.075</u>	<u>26.1</u>	<u>7.46</u>	<u>3.03</u>	<u>38.3</u>	<u>603</u>	<u>0.49</u>	<u>0.15</u>	Mid:							☒ VOB	Bottom:							
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Mid:							☒ VOB																																	
Bottom:																																								
Woody Debris (Snags) <u>0.1</u> <u>18</u> <u>18</u> Undercut Banks / Roots <u>0.003</u> <u>18</u> <u>18</u> Leaf Packs or Mat <u>0</u> <u>-</u> <u>-</u> Aquatic Vegetation <u>0.97</u> <u>-</u> <u>-</u> Rock or Shell Rubble.. <u>0.017</u> <u>-</u> <u>-</u> Sand..... <u>0</u> <u>-</u> <u>-</u> Mud / Muck / Silt <u>98.9</u> <u>18</u> <u>18</u> Other <u>-</u> <u>-</u> <u>-</u> Other <u>-</u> <u>-</u> <u>-</u>			Water Odors Normal ☒ Petroleum ☐ Sewage ☐ Chemical ☐ Other ☐			Water Surface Oils Normal ☒ Sheen ☐ Globbs ☐ Slick ☐ Other ☐																																		
			Water Sample Taken? ☒ Yes ☐ No Sample Preserved? ☒ Yes ☐ No Lot Number: <u>SA105060</u> Exp: <u>04/30/21</u>			Color Tannic ☐ Green (Algae) ☐ Clear ☒ Other (Specify) ☐																																		
			Algae Sample Taken? ☐ Yes ☒ No Sample Preserved? ☐ Yes ☒ No Lot Number: _____ Exp: _____			Clarity Clear ☒ Slightly Turbid ☐ Turbid ☐ Opaque ☐																																		
ABUNDANCE <table border="1"> <thead> <tr> <th></th> <th>Not Obs.</th> <th>Rare</th> <th>Common</th> <th>Abundant</th> </tr> </thead> <tbody> <tr> <td>Periphyton:</td> <td>☐</td> <td>☐</td> <td>☒</td> <td>☐</td> </tr> <tr> <td>Fish:</td> <td>☐</td> <td>☒</td> <td>☐</td> <td>☐</td> </tr> <tr> <td>Aquatic Plants:</td> <td>☐</td> <td>☒</td> <td>☐</td> <td>☐</td> </tr> <tr> <td>on/Sulfur Bacteria:</td> <td>☒</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> </tbody> </table>				Not Obs.	Rare	Common	Abundant	Periphyton:	☐	☐	☒	☐	Fish:	☐	☒	☐	☐	Aquatic Plants:	☐	☒	☐	☐	on/Sulfur Bacteria:	☒	☐	☐	☐	System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other(Specify) ☐												
	Not Obs.	Rare	Common	Abundant																																				
Periphyton:	☐	☐	☒	☐																																				
Fish:	☐	☒	☐	☐																																				
Aquatic Plants:	☐	☒	☐	☐																																				
on/Sulfur Bacteria:	☒	☐	☐	☐																																				
AMBIENT FIELD CONDITIONS / NOTES: <u>No flow, storm pipe upstream and down.</u> <u>Creek feeds into canal on NE side.</u> ☒ The antecedent hydrologic conditions have been met to my best knowledge.																																								

SAMPLING TEAM: Thomas Baker, Maria Jaeger, Nicole Kestad SIGNATURE: Thomas Baker DATE: 10/19/21

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Unnamed Ditch @ Indiana Ave County: Sarasota Date: 10/19/21 Investigators: Monica Jaeger
STORET Station Number: G2570022

Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover	Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover
0	1	3			60	1	3		
	2	N				2	N		
	3	N				3	N		
	4	N				4	N		
	5	N		4		5	N		4
	6	N				6	N		
	7	N				7	N		
	8	N				8	N		
	9	3				9	3		
10	1	3			70	1	3		
	2	N				2	N		
	3	N				3	N		
	4	N				4	N		
	5	N		4		5	N		4
	6	N				6	N		
	7	N				7	N		
	8	N				8	N		
	9	3	X			9	3		
20	1	3			80	1	3		
	2	N				2	N		
	3	N				3	N		
	4	N				4	N		
	5	N		32		5	N		
	6	N				6	N		
	7	N				7	N		
	8	N				8	N		
	9	3	X			9	3		
30	1	3			90	1	N		
	2	N				2	N		
	3	N				3	N		
	4	N				4	N		
	5	N		36		5	N		0
	6	N				6	N		
	7	N				7	N		
	8	N				8	N		
	9	3	X			9	N		
40	1	3			100	1	N		
	2	N				2	N		
	3	N				3	N		
	4	N				4	N		
	5	N		60		5	N		0
	6	N				6	N		
	7	N				7	N		
	8	N				8	N		
	9	3	X			9	N		
50	1	3				1	3		
	2	N				2	N		
	3	N				3	N		
	4	N				4	N		
	5	N		20		5	N		
	6	N				6	N		
	7	N				7	N		
	8	N				8	N		
	9	3				9	N		

Secchi depth 0.5
Estimated? -

points ranked 4-6 9
total points assessed 99
% points ranked 4-6 0

Check accompanying data collected at same site/date.
Algal mat sample ☐
Linear Veg Survey ☒
Habitat Assessment ☒
SCI/Biorecon ☐
Water sample ☒
RQ- 1021-1018-49

Algal Thickness Rank	
N	rough, no algae, slimy, algae up to 1mm
3	>1mm - 6mm
4	>6mm - 20mm
5	>20mm - 10 cm
6	>10 cm

Record "N" and check "Estimated" for points deeper than the Secchi depth; algae are presumed absent. Check "Estimated" if thickness estimated for deep points which can be seen but not reached.

Record "X" for points shallower than Secchi depth for which substrate cannot be seen or reached with the hand. No estimated rank.

Record canopy cover as the number of small densiometer quadrants (out of 96) that HAVE canopy cover. Measure facing upstream at point 4, 5, or 6.

Collect algal mat sample following DEP SOP FS 7240 if the percentage of total sampled points with a thickness rank of 4, 5, or 6 is >20%.

DEP FORM FD 9000-32: LINEAR VEGETATION SURVEY FIELD SHEET

Waterbody: <u>Unnamed Ditch @ Indiana Ave</u>	Date: <u>10/19/21</u>	County: <u>Sarasota</u>	Storet Number: <u>G25h022</u>
Analyst: <u>Nicole Reistad</u>		Signature: <u>[Signature]</u>	

Comments:

Comments:

Instructions: Note taxa growing in the water with a checkmark if present, "D" if dominant, and "C" if codominant (dominance only if 1m² of taxa present). Note in the boxes below if no dominant are selected, and note total macrophyte abundance rank for each section. Only the most common taxa are listed, so use blank spaces for additional taxa names.

spaces for additional taxa names.												Meter Mark												Specimen collected (check)	Meter Mark												Specimen collected (check)												
HERBACEOUS SPECIES												0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	HERBACEOUS SPECIES												0-10	10-20	20-30		30-40	40-50	50-60	60-70	70-80	80-90	90-100					
Alternanthera philoxeroides												✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Micranthemum glomeratum																											
Bacopa caroliniana																						Micranthemum umbrosum																											
Bacopa monnieri																						Myriophyllum aquaticum																											
Bidens mitis																						Najas guadelupensis																											
Boehmeria cylindrica																						Nuphar luteum																											
Centella asiatica																						Orontium aquaticum																											
Ceratophyllum demersum																						Panicum hemitomon																											
Chara																						Panicum repens	✓																✓	✓									
Cicuta maculata																						Panicum rigidulum																											
Cladium jamaicense																						Pistia stratioides	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
Colocasia esculenta																						Polygonum glabra																											
Commelina diffusa																						Polygonum hydropiperoides																											
Commelina virginica																						Polygonum punctatum																											
Crinum americanum																						Pontedaria cordata																											
Diodia virginiana																						Potamogeton illinoensis																											
Eichhornia crassipes																						Ruellia simplex																											
Eleocharis (wispy viviparous)																						Sacciolepis striata																											
Hydrilla verticillata																						Sagittaria kurziana																											
Hydrocotyle																						Sagittaria lancifolia																											
Hygrophila polysperma																						Sagittaria latifolia																											
Hymenocallis																						Salvinia minima																											
Lachnanthes caroliniana																						Samolus parviflora																											
Landoltia punctata																																																	