



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / ☒ No

WIN Station Name: Salix Slough @ Lil Manatee River

Date: 3-14-19
(mm/dd/yyyy)

WIN/ Field ID: G2SW0104

WBID: 1793

Latitude: 27.65910
(Decimal Degrees)

County: Manatee

ORG ID: 21FLTPA

Longitude: -82.39019
(Decimal Degrees)

Receiving Body of Water: Little Manatee

RQ-2019- 03-11-83

Sampling Team Members					Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Ben Paswater Judy Ashton					☒	☒	☒	☒	☒
					☒	☒	☒	☒	☒
					☒	☒	☒	☒	☒

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☐ Syringe	
☐ Dipper	☐ Other	
Depth Measured with: Secchi		
Equipment ID: Secchi #1		
Collection Method		
☒ Wading	☐ Canoe/Kayak	
☐ From Shore	☐ Electric Motor	
☐ Other	☐ Gasoline Motor	

Water Level: Dry/ Pooled/ Low / <u>Normal</u> / High / Flooded					Meter ID# <u>1111</u>			Matrix: <u>Fresh</u> / Marine / DI		
Photos: Yes / <u>No</u>		Flow: No Flow / Interstitial / <u>Flowing</u> / NA			Tide: Rising/ Falling/ Slack/ <u>NA</u>			Tide Times: High / Low		
Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPT)	Sp COND (umhos/cm)	Temp. (C°)
<u>EST</u>	<u>1200</u>	<u>0.3</u>	<u>0.7</u>	<u>0.7</u>	<u>4.92</u>	<u>77.5</u> <u>50.8</u>	<u>5.6</u>	<u>0.18</u>	<u>385</u>	<u>20.3</u>

Biological Samples Collected: None <u>HA</u> <u>SCI</u> <u>RPS</u> Algae ID <u>LVS</u> LVI Other:									
SBIO ID Numbers: SBIO-ID: <u>79284</u> HA-ID: <u>15701</u> RPS-ID: <u>C1278</u> Macrophyte-ID: <u>< 2 m²</u> LIMS#:									
Parameter Suite	Parameter Methods				Preservation	Lot#	Expiration	pH Check	
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP				☒ Ice ☒ H ₂ SO ₄	<u>8099/10</u>	<u>4-9-19</u>	☒ <2	
Metals	☒ W-ICPMS ☒ W-ICP				☒ Ice ☐ HNO ₃				
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter				☒ Ice				
Chlorophyll	☒ CHL-SUITE-W				☒ Ice				
Physical/Aggregate (Fresh)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W-TDS				☒ Ice				
Physical/Aggregate (Marine)	☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY				☐ Ice				
Macroinvertebrates	☒ MI-FW-QLDC				☒ Formalin				
Periphyton	☐ ALGAE-ID				☐ Ice				
Microbiology	☒ E Coli ☐ F Coli ☐ Enterococci				☒ Ice				
Molecular	☐ PCR-FILTER ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD				☐ Ice				
Tracers	☒ W-E8321-DI ☒ W-E8321-MS				☒ Ice				
Pesticides	☒ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI ☐ W-PCL-SQ-R ☐ W-E8321-MS ☐ W-CARB-AA				☒ Ice				
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C								

Notes: Tennis 2003 or bowser 11

Signature: Ben Paswater

Field ID/WIN

G2SW0104



Site Name: Salix Slough @ Lil Manatee River SP

Date: 3/14/19

LIMS EVENT ID: 2019-03-15-01

WIN Import ID: 13906

Enter Field Parameters, Verify Station ID In LIMS DMT: SM 03/26/2019

QC Station ID, Field Parameters In LIMS DMT: 06/11/2019 SM

Scan/Save Field Sheets: SM 09/19/2019

Migrate Data to WIN: SM 08/13/2019

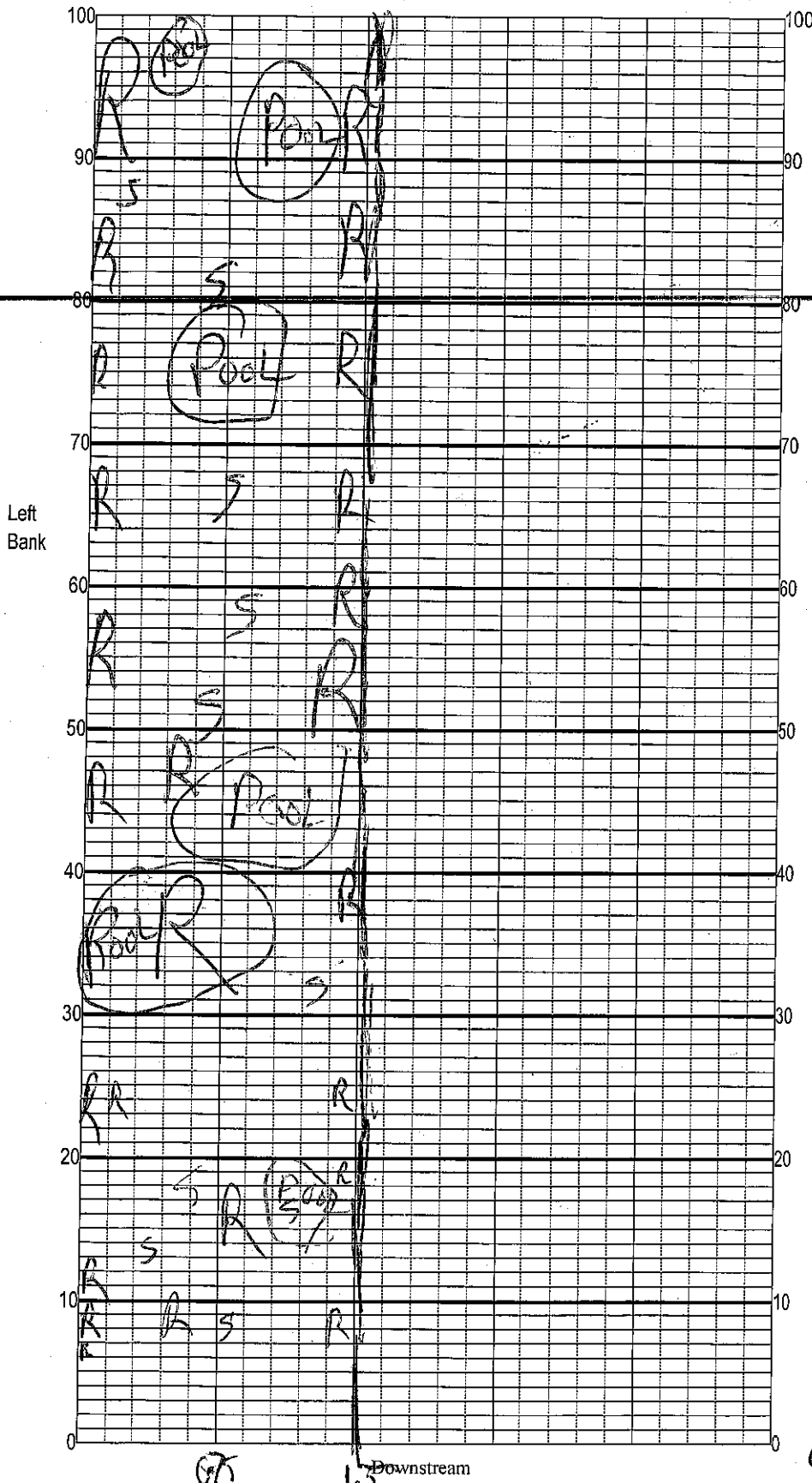
Verify Data In WIN: SM 09/19/2019

(Initials/Date)

(Initials/Date)

(Initials/Date)

DEP Form FD 9000-4 Stream/River Habitat Assessment Sketch Sheet



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

Location: Salix Slough

Date: 3/4/13

Sampler: Bartholomew / J. Ashford

100 m: Latitude _____
Longitude _____

0 m: Latitude _____
Longitude _____

Substrates: Code key, draw proportionate habitat abundance.

☒ S	Snags	25%
☒ R	Roots/undercut banks	28%
☐	Leaf Packs (or mats)	_____
☐	Aquatic Macrophytes	_____
☐		_____
☐		_____
☐	Pools	total # observed = _____ # range expected = _____

Average width 1.5 m

Average depth 0.7 m

Velocity measured at 0 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:

11 sec

R = 28%

S = 25 = 2.5%

Field ID/WIN

G2SW0104



Site Name: Salix Slough @ Lil Manatee River SP

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21FLTPA

LATITUDE

27.65910

LONGITUDE

-82.39019

SITE NAME see sticker

TIME 1200

SAMPLING AGENCY FDEP SW ROC

DATE 3-14-19

RECEIVING BODY OF WATER

LIL Manatee

MANATEE CO.

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural ☒ 50 ☐ Silviculture ☐ Field/Pasture ☐ 5 ☐ Agricultural ☐ 5 ☐ Residential ☐ 40 ☐ Commercial ☐ Industry ☐ Other (Specify) ☐								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 1.5 m wide m/s -0.05 m/s m/s 1.4 m deep 1.7 m deep 1.5 m deep			
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: 718 Right Bank: 718				Hydrologic Modification Score (per FT 3101) 3					
High Water Mark: 1.5 + 1.7 = 2.2 (m) (above present water level) (present depth) (above bed)				Artificially Impounded ☐ Yes ☒ No					
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 Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat (%) Cond. (UMHO/CM) Salinity (PPT) SECCHI (M) Top: 0.3 20.3 5.60 4.92 50.8 385 0.18 07 Mid: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☒ VOB Bottom: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ TOTAL DEPTH 0.7 Meter ID: LIL Jan					
Woody Debris (Snags) 2.5 4 Undercut Banks / Roots 28 16 Leaf Packs or Mat Aquatic Vegetation Rock or Shell Rubble Sand Mud / Muck / Silt Other Other			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: Exp:			Color Tannic ☒ Green (Algae) ☐ Clear ☒ Other (Specify)			Clarity Clear ☒ Slightly Turbid ☐ Turbid ☐ Opaque ☐		
ABUNDANCE Not Obs. Rare Common Abundant Periphyton: ☐ ☒ ☐ ☐ Fish: ☐ ☐ ☒ ☐ Aquatic Plants: ☐ ☒ ☐ ☐ Iron/Sulfur Bacteria: ☒ ☐ ☐ ☐			System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other (Specify)			AMBIENT FIELD CONDITIONS / NOTES: ☒ The antecedent hydrologic conditions have been met to my best knowledge.		

SAMPLING TEAM

SIGNATURE:

DATE:



DEP Form FD 9000-5 Stream/River Habitat Assessment Sheet

Site Name: Salix Slough @ Lil Manatee River SP

STORET STATION
NUMBER: see sticker

DATE (MM/DD/YYYY):

03/14/2019

SAMPLING AGENCY:

FDEP SWROC

FIELD ID/NAME: see sticker

LOCATION:

COUNTY:

Manatee

RECEIVING BODY OF WATER:

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>5</u>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	<u>5</u> 4 3 2 1
Substrate Availability <u>15</u>	Greater than 30% major productive habitat present at site 20 19 18 17 16	16% to 30% major productive habitat, by aerial extent <u>15</u> 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 1
Water Velocity <u>2</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 <u>2</u> 1
Habitat Smothering <u>8</u> Primary Score <u>30</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 <u>8</u> 7 6	Stable pools are absent. Most habitats affected by sand, silt, or algae accumulation. 5 4 3 2 1
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>20</u>	<u>20</u> 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Bank Stability Right Bank <u>8</u> Left Bank <u>8</u>	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. <u>8</u> 7 6	Only meets 1 of the 3 requirements for optimal bank stability. 5 4	Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the root zone with raw, eroded areas. 3 2 1
Riparian Buffer Zone Width Right Bank <u>10</u> Left Bank <u>10</u>	Width of vegetation greater than 18 m <u>10</u> 9	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 2 1
Riparian Zone Vegetation Quality Right Bank <u>10</u> Left Bank <u>10</u> Secondary Score <u>76</u>	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. <u>10</u> 9	>50% to 80% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Some disruption in community observed. 8 7 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 2 1

SM 108 106 TOTAL SCORE

Date:	Analyst:	Signature:
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Site Name: Salix Slough @ Lil Manatee River SP

FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

		Investigators						County: Hillsborough		
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	N			60	1	N			
	2					2				
	3					3				
	4					4				
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				
10	1				70	1				
	2					2				
	3					3				
	4					4				
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				
20	1				80	1				
	2					2				
	3					3				
	4					4				
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				
30	1				90	1				
	2					2				
	3					3				
	4					4				
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				
40	1				100	1				
	2					2				
	3					3				
	4					4				
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				
50	1					1				
	2					2				
	3					3				
	4					4				
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				

STORET Station Number:
G2SW0104

Secchi depth 0.7
 Estimated?

points ranked 4-6 99
 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- 2019-03-11-33

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

Site Name: Salix Slough @ Lil Manatee River SP

County: Manatee

Waterbody: See Sticker

Date: 03/14/19

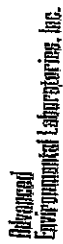
Signature:

Comments:

Analyst:

Instructions: Note taxa growing in the water with a checkmark if present, "D" if dominant, and "C" if codominant (dominance only if 1 m² 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. **BOLD is exotic invasive**

HERBACEOUS SPECIES	Meter Mark										Specimen collected (check)	HERBACEOUS SPECIES	Meter Mark										Specimen collected (check)
	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100			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 (Lemon)												Micranthemum umbrosum											
Bacopa monnieri												Myriophyllum aquaticum											
Bidens mitis												Najas guadelupensis											
Boehmeria cylindrica												Nitella sp.											
Centella asiatica												Nuphar luteum											
Ceratophyllum demersum												Orontium aquaticum											
Chara sp.												Panicum hemitomon											
Cicuta maculata												Panicum repens											
Cladium jamaicense												Panicum rigidulum											
Colocasia esculenta												Pistia stratioides											
Commelina diffusa												Polygonum glabra											
Commelina virginica												Polygonum hydropiperoides											
Crinum americanum												Polygonum punctatum											
Cyperus												Pontedaria cordata											
Diodia virginiana												Potamogeton illinoensis											
Eichhornia crassipes												Ruellia simplex											
Eleocharis (wispy viviparous)												Sacciolepis striata											
Fontinalis sp. (Aquatic Moss)												Sagittaria kurziana											
Fraxinus caroliniana												Sagittaria lancifolia											
Hydrilla verticillata												Sagittaria latifolia											
Hydrocotyle sp.												Salvinia minima											
Hygrophila polysperma												Samolus parviflora											
Hymenachne amplexicaulis												Saururus cernuus											
Hymenocallis												Sparganium americanum											
Lachnanthes caroliniana												Schoenoplectus americanus											
Landoltia punctata												Sphagneticola trilobata (Wedelia)											
Lemna sp.												Typha sp.											
Limnophila sessiflora												Urochloa mutica (Brachiaria)											
Ludwigia leptocarpa												Vallisneria americana											
Ludwigia palustris												Zizania aquatica											
Ludwigia peruviana																							
Ludwigia repens																							
Luziola fluitans																							
If no Dominant or Co-Dominant were selected, indicate with "X"																							
Indicate % cover macrophytes per section																							
0-5% Macrophyte Coverage																							
>5 and ≤10% Macrophyte Coverage																							
>10 and ≤25% Macrophyte Coverage																							
>25 and ≤50% Macrophyte Coverage																							
> 50% Macrophyte Coverage																							



☐	Gainesville: 4965 SW 41st Blvd. • Gainesville, FL 32608 • 352.377.2349 • Fax 352.395.6939
☐	Jacksonville: 6681 Southpoint Pkwy. • Jacksonville, FL 32246 • 904.363.9854 • Fax 904.363.9854
☐	Tallahassee: 2639 North Monroe Street, Suite D • Tallahassee, FL 32303 • 850.219.6274 • Fax 850.219.6275
☒	Tampa: 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.630.9616 • Fax 813.630.4327

Client Name: FDEP SW Dist		Project Name: SMP		BOTTLE TYPE		LABORATORY I.D. #	
Address: 13051 N. Telecom Pkwy, Temple Terrace FL 33637		P.O. Number: B370AE		BOTTLE SIZE			
Phone: 813-470-5770		Project Address:		ANALYTE REQUIRED		EQUIP	
Contact: Judy Ashton 813-470-5772		Special Instructions: RQ-2019-03-11-33		NO. COUNT		100	
Sampled By: [Signature]		Turn Around Time: ☒ STANDARD ☐ RUSH		MATERIAL		1	
Page: 1 of 1		SAMPLE DESCRIPTION		DATE		TIME	
SAMPLE ID: G2SW0104		Field ID: WIN		DATE		TIME	
Barcode: [Barcode]		Barcode: [Barcode]		DATE		TIME	
Site Name: Salix Slough @ L11 Manatee River SP		Grab Comp.		DATE		TIME	
Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge		Preservation Code: I = ice H = HCl S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)		Temperature when received		(in degrees Celsius)	
Received on: ☒ Yes ☐ No ☐ Temp taken from sample ☐ Temp from blank		Device used for measuring Temp by unique identifier (circle IR temp gun used)		J: 9A G: LT-1 LT-2 T: 10A A: 3A Mt: 3A S: 1V			
Form last revised: 04/30/2015		Date: 7/1/14		Time: 14:05		Date: 7/1/14	
Requisitioned by: [Signature]		Received by: [Signature]		Date: 7/1/14		Time: 14:05	
PWS ID: 1405		FOR DRINKING WATER USE					

Florida Department of Environmental Protection Central Laboratory Submittal Form

Customer: SW-DIST

Project ID: SMP

Requester: Benjamin Paswater

Field Report Prepared By:

Collected By: Harry Anthony Baker

Sampling Agency:

Field ID/WIN		G2SW0104		Collection (comp begin or grab)		Eastern Central		Composite end		Bottle Group(s)	
Field ID	WIN	Field ID	WIN	Grab	Date	Time	Central	Date	Time	mg/L Total Res. Chlorine	(See pg 2)
Site Name: Salix Slough @ LI Manatee River SP				Temp (C)		20.31	pH		5.6	A/B	
Latitude				Salinity (ppt)		0.10	Comments		E. coli exceeds MCL		
Location				Comp Collection (comp begin or grab)		Eastern Central		Composite end		Bottle Group(s)	
Field ID				Grab		Date	Time	Date	Time		
WIN/STORE #				Matrix (type, e.g., Salt, Fresh, etc)		pH		Sample Depth			
Latitude				Temp (C)		pH		Sample Depth			
Location				Salinity (ppt)		Comments					
Field ID				Comp Collection (comp begin or grab)		Eastern Central		Composite end		Bottle Group(s)	
WIN/STORE #				Grab		Date	Time	Date	Time		
Latitude				Temp (C)		pH		Sample Depth			
Location				Salinity (ppt)		Comments					
Field ID				Comp Collection (comp begin or grab)		Eastern Central		Composite end		Bottle Group(s)	
WIN/STORE #				Grab		Date	Time	Date	Time		
Latitude				Temp (C)		pH		Sample Depth			
Location				Salinity (ppt)		Comments					
Field ID				Comp Collection (comp begin or grab)		Eastern Central		Composite end		Bottle Group(s)	
WIN/STORE #				Grab		Date	Time	Date	Time		
Latitude				Temp (C)		pH		Sample Depth			
Location				Salinity (ppt)		Comments					
Field ID				Comp Collection (comp begin or grab)		Eastern Central		Composite end		Bottle Group(s)	
WIN/STORE #				Grab		Date	Time	Date	Time		
Latitude				Temp (C)		pH		Sample Depth			
Location				Salinity (ppt)		Comments					
Field ID				Comp Collection (comp begin or grab)		Eastern Central		Composite end		Bottle Group(s)	
WIN/STORE #				Grab		Date	Time	Date	Time		
Latitude				Temp (C)		pH		Sample Depth			
Location				Salinity (ppt)		Comments					
Field ID				Comp Collection (comp begin or grab)		Eastern Central		Composite end		Bottle Group(s)	
WIN/STORE #				Grab		Date	Time	Date	Time		
Latitude				Temp (C)		pH		Sample Depth			
Location				Salinity (ppt)		Comments					
Field ID				Comp Collection (comp begin or grab)		Eastern Central		Composite end		Bottle Group(s)	
WIN/STORE #				Grab		Date	Time	Date	Time		
Latitude				Temp (C)		pH		Sample Depth			
Location				Salinity (ppt)		Comments					
Field ID				Comp Collection (comp begin or grab)		Eastern Central		Composite end		Bottle Group(s)	
WIN/STORE #				Grab		Date	Time	Date	Time		
Latitude				Temp (C)		pH		Sample Depth			
Location				Salinity (ppt)		Comments					
Field ID				Comp Collection (comp begin or grab)		Eastern Central		Composite end		Bottle Group(s)	
WIN/STORE #				Grab		Date	Time	Date	Time		
Latitude				Temp (C)		pH		Sample Depth			
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Field ID				Comp Collection (comp begin or grab)		Eastern Central		Composite end		Bottle Group(s)	
WIN/STORE #				Grab		Date	Time	Date	Time		
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