HA/RPS/LVS

Site Name Little Wekiva River @ 75m NW of Palm Spring Sample Date 6/4/18

WBID 2987 WIN ID 62CE0140 RQ 2018-06-04-56

	Initial/Date	QC Initial/Date
Water chemistry data to LIMS	LMD 6/8/18	JR 6/14/18
Create SBIO station visit	LMD 6/8/18	n/a
Phys/Chem entry	LMD 6/8/18	JR 6/14/18
Habitat Assesment entry	LMD 6/8/18	JR 6/14/18
Vascular entry (add LIMS ID to entry)		NA
RPS entry	LMD 6/8/18	JR 6/14/18
Authorize SBIO data	JR 6/14/18	n/a
Scan all sheets to 21FLCEN folder		n/a
LIMS/WIN migration		n/a
File in cabinet		n/a

Comments/notes:

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2018

Data Qualified? Yes / (No)

WIN Station Name: Little Wekiwa River @ 75m NW of Palm Spring **Date:** 6/4/18 (mm/dd/yyyy)

WIN ID/ Field ID G2CE0140 **WBID:** 2987 **Latitude:** 28.69182 (Decimal Degrees)

County: Seminole **ORG ID:** 21FLCEN **Longitude:** -81.39322 (Decimal Degrees)

Receiving Body of Water: Wekiwa **RQ -** 2018-26-04-56

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Duplicate Collection	Blank Collection
Terry Riordan		✓	✓			✓	
Liz Bates			✓	✓	✓		
Mike Drennan	✓						✓

Sampling Equipment

- [x] Sample Container [ ] Van Dorn [ ] Pole
- [x] Carboy [x] Syringe
- [ ] Dipper [ ] Other
- Depth Measured with: SECCHI DISK LINE
- Equipment ID Crusty

Collection Method

- [x] Wading [ ] Canoe/Kayak
- [ ] From Shore [ ] Electric Motor
- [ ] Other [ ] Gasoline Motor

Water Level: Dry/ Pooled/ Low/ (Normal)/ High/ Flooded

Meter ID# SCHD

Matrix: (Fresh) / Marine / DI

Photos: (Yes) / No

Flow: No Flow / Intestital / (Flowing)/ NA

Tide: Rising/ Falling/ Slack/ (NA)

Tide Times: High Low (Bracket Sample Time)

Field Sample

Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (ppt)	Sp COND (µmhos/cm)	Temp. (C°)
(EST)	10:53	.7	.3	.7(5)	5.35	66.6	7.25	.12	250.6	26.8
CEN										

Biological Samples Collected: None (HA) SCI (RPS) Algae ID ~~WS~~ LVI Other:

SBIO ID Numbers: SBIO-ID: 78427 HA-ID: 15180 RPS-ID: 9029 Macrophyte-ID: ——— LIMS#: 19969S6

Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	[x] W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	[x] Ice [x] H_2SO_4	SA7163030	6/12/18	[x] <2
Metals	[ ] W-ICPMS [ ] W-ICP	[ ] Ice [ ] HNO_3			[ ] <2
Filtered Nutrients	[x] W-PO4-F [x] Field Filtered 0.45 µm Filter	[x] Ice	13615055		
Chlorophyll	[x] CHLSUITE-W	[x] Ice			
Physical/Aggregate (Fresh)	[x] Alkalinity W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS	[x] Ice			
Physical/Aggregate (Marine)	[ ] Alkalinity / 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-HF183 [ ] PCR-BacR [ ] PCR-GULL2 [ ] PCR-GFD	[ ] Ice			
Tracers	[ ] W-SUC-AA-R [ ] W-UHERB-AA [ ] W-AHERB-AA	[ ] Ice			
Pesticides	[ ] W-PSNP-TQ [ ] W-AHERB-AA [ ] W-PYR-AA-R [ ] W-CARB-AA [ ] W-PCL-SQ-R [ ] W-UHERB-AA [ ] W-GLYPH [ ] W-SUC-AA-R	[ ] Ice [ ] Other			

H2SO4
LOT# SA7163030
EXP: 06/12/2018

Place Preservative Sticker(s) Here (If Available)

QA/QC Sample Information

Duplicate

Time Zone: (EST) CEN **Time:** 1055 **Field ID:** G2CE0140_Dup (WIN ID + DUP)

Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Chec
Preserved Nutrients	☑ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☑ Ice ☑ H_2SO_4	SA7163030	6/12/18	☑ < 2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO_3			☐ < 2
Filtered Nutrients	☑ W-PO4-F ☑ Field Filtered 0.45 µm Filter	☑ Ice	13615055		
Chlorophyll	☐ CHLSUITE-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-F / W-TSS / TURBIDITY	☐ Ice			
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococci	☐ Ice			
Molecular	☐ PCR-FILTER ☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-GULL2 ☐				
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA ☐ W-AHERB-AA				
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W ☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH ☐ W				

H2SO4
LOT# SA7163030
EXP: 06/12/2018
Place Preservative Sticker(s) Here (If Available)

Field ID: G2CE0140_DUP
WIN: G2CE0140
Location: Little Wekiwa River @ 75m NW of Palm Spring (2987)

Blank

Time Zone: (EST) CEN **Time:** 1105 **Field ID:** BLANK_~~2018~~ Blank_06042018 (BLANK_DDMMYYYY)

DI Source: WASH ROOM **Location:** Little Wekiva River @ Truck

☑ Field Blank ☐ Equipment Blank ☐ Field Cleaned Equipment Blank **Equipment ID:**

Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Chec
Preserved Nutrients	☑ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☑ Ice ☑ H_2SO_4	SA7163030	6/12/18	☑ < 2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO_3			☐ < 2
Filtered Nutrients	☑ W-PO4-F ☑ Field Filtered 0.45 µm Filter	☑ Ice	13615055		
Chlorophyll	☐ CHLSUITE-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-F / W-TSS / TURBIDITY	☐ Ice			
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococci	☐ Ice			
Molecular	☐ PCR-FILTER ☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR				
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA ☐ W-AHERB-AA				
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-CARE ☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH ☐ W-SUC-				

H2SO4
LOT# SA7163030
EXP: 06/12/2018
Place Preservative Sticker(s) Here (If Available)

Field ID: BLANK_06042018
Location/DI Source: Washroom

Notes: Pics: N=4S, 2 2m² aquatic plants, NO LVS — Water higher due to recent rain but still within normal range.

WIN ID / Field ID →

Little Wekiwa River @ 75m NW of Palm Spring (2987)

G2CE0140

Signature: JK **Date:** 6/4/18

Enter Field Parameters, Verify Station ID In LIMS DMT: LMD 6/8/18 (Initials/Date) QC Station ID, Field Parameters In LIMS DMT: _____ (Initials/Date)

Scan/Save Field Sheets _____ Migrate Data to WIN: _____ Verify Data In WIN: _____

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

SAMPLE ID 78427 | ORG ID 21FLCEN | LATITUDE 28.69182
COUNTY Seminole | STORET # 62CE0140 | LONGITUDE -81.39322
DATE 6/14/18 | TIME 1053 | SAMPLING AGENCY FDEP-CEROC
SITE NAME Little Wekiva River @ 75m NW of Palm Spring
FIELD ID/NAME 62CE0140 | RECEIVING BODY OF WATER Wekiva

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)
97				3			

Landscape Development Intensity Index (LDI):

Local Watershed Erosion (select one): ☐ None ☒ Slight ☐ Moderate ☐ Heavy

Local Watershed NPS Pollution: ☒ No evidence ☐ Slight ☐ Moderate ☐ Heavy

Width of Riparian Vegetation (m) on Each Buffer Side
Left Bank: >18 | Right Bank: 10

Hydrologic Modification Score (per FT 3101):

High Water Mark: 0.5 (m) (above present water level) + 0.75 (present depth) = 1.05 (above bed)

Artificially Impounded ☐ Yes ☒ No

Typical Width (m) Depth (m)/Velocity (m/sec) Transect
7 m wide

m/s	.19 m/s	m/s
m deep	.75 m deep	m deep

Artificially Channelized: ☒ No ☐ Some recovery ☐ Mostly recovered, more sinuous ☐ Recent, severe

Canopy Cover % ☐ Open ☒ Heavily Shaded ☐ Lightly Shaded (11-45%) ☐ Moderate Shaded (46-80%)

SEDIMENT / SUBSTRATE

Sediment type: Sand

Sediment Oils ☒ Absent ☐ Slight ☐ Moderate ☐ Profuse

Sediment Odors ☒ Normal ☐ Sewage ☐ Petroleum ☐ Chemical ☐ Anaerobic ☐ Other (Specify):

Smothering of Substrates

	None	Slight	Moderate	Severe
Sand Smothering:	☐	☒	☐	☐
Silt Smothering:	☒	☐	☐	☐
Algae Smothering:	☒	☐	☐	☐

SUBSTRATE TYPE
Assessment Tool: ☐ SCI ☒ RPS ☐ LVS ☐ LCI ☐ BioRecon

	% Coverage	INVERT # Times Sampled	PERI # Times Sampled
Woody Debris (Snags)	0.26		
Undercut Banks / Roots	2.0		
Leaf Packs or Mat	—		
Aquatic Vegetation	—		
Rock or Shell Rubble..			
Sand.....			
Mud / Muck / Silt			
Other			
Other			

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	26.8	7.25	5.35	66.6	250.6	.12	0.7
Mid:								☒ VOB
Bottom								TOTAL DEPTH
								0.7

Meter ID: SCWD

Water Odors Normal ☒ Petroleum ☐ Sewage ☐ Chemical ☐ Other ☐

Water Surface Oils Normal ☒ Sheen ☐ Globs ☐ Slick ☐ Other ☐

Water Sample Taken? ☒ Yes ☐ No
Sample Preserved? ☒ Yes ☐ No
Lot Number: SA7163030 Exp: 06/12/2018

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

	Not Obs.	Rare	Common	Abundant
Periphyton:	☐	☒	☐	☐
Fish:	☐	☐	☐	☒
Aquatic Plants:	☐	☒	☐	☐
Iron/Sulfur Bacteria:	☒ UD	☐	☒	☐

System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other(Specify) ☐

AMBIENT FIELD CONDITIONS / NOTES:
- 90's, humid
- Recent rain increased H_2O level but still normal range.

☒ The antecedent hydrologic conditions have been met to my best knowledge.

SAMPLING TEAM
Terry Riordan, Liz Pates, Mike Brennan

SIGNATURE: [signature] DATE: 6/14/18

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

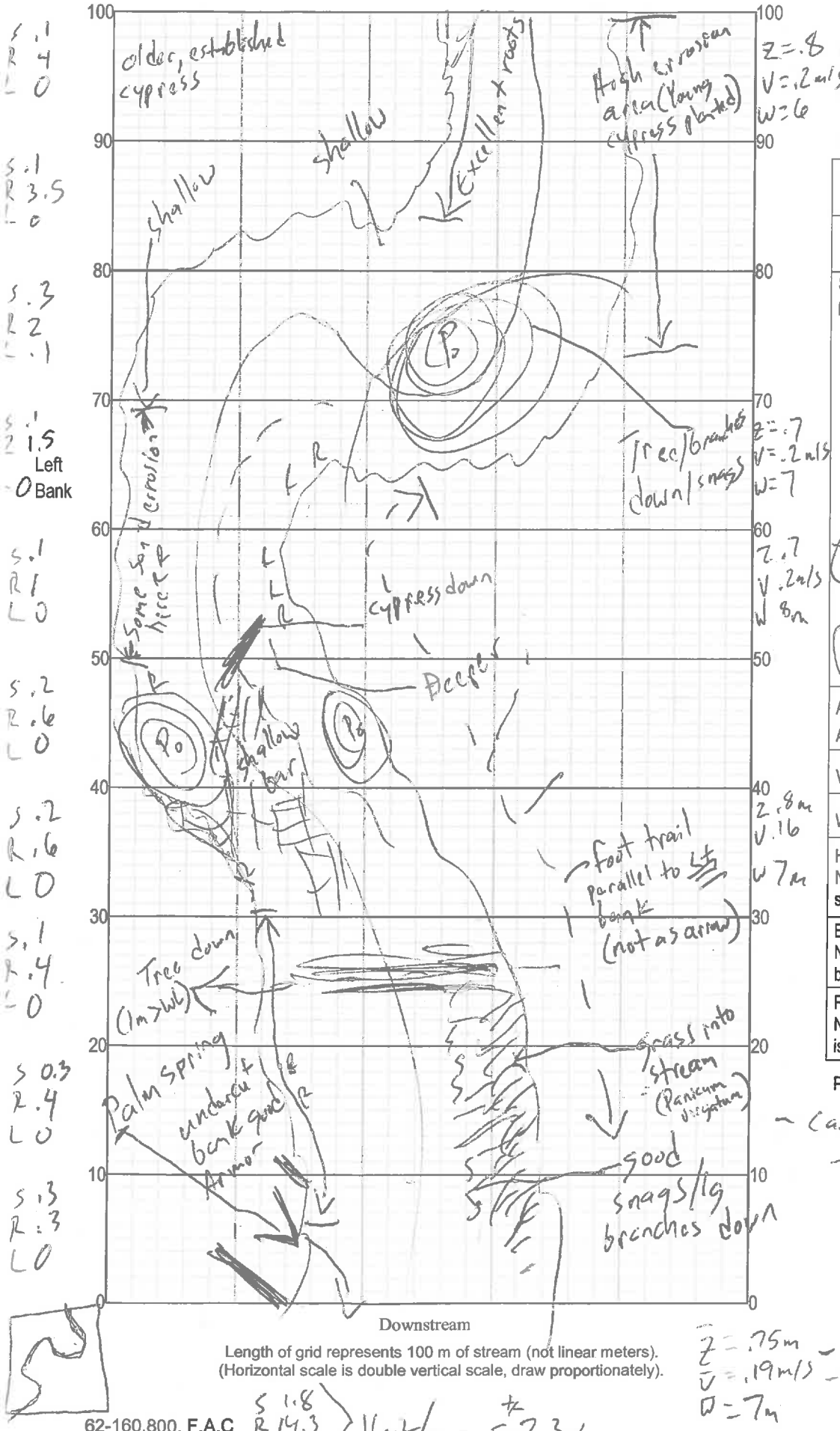
SAMPLING AGENCY:		STORET STATION NUMBER:	DATE (MM/DD/YY):	RECEIVING BODY OF WATER:
FDEP-CEROC		G2CE0140	6/4/18	Wekiva
REMARKS:	COUNTY: Seminole	LOCATION: Little Wekiva 875m NW of Palm spring		FIELD ID/NAME: G2CE0140

Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components **Substrate Diversity** 6	Four or more major productive habitats present [snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock] 20 19 18 17 16	Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh leaves or snags) 15 14 13 12 11	Two major productive habitats present. Less than desirable habitat, frequently disturbed or removed 10 9 8 7 6	One or less major productive habitat. Lack of habitat is obvious, substrates unstable or smothered 5 4 3 2 1
Substrate Availability 3	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 1
Water Velocity 14	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 1
Habitat Smothering 20 Primary Score 43	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 1
Secondary Habitat Components **Artificial Channelization** 19	Expected sinuosity given the stream width. No evidence of dredging or artificial straightening. No spoil banks. 20 19 18 17 16	Good sinuosity within old channelized area. Evidence of dredging or straightening in the past (>25 yrs) but mostly recovered. 15 14 13 12 11	Straightened with trapezoidal cross section, but has a small degree of sinuosity developed within channelized area. 10 9 8 7 6	Straightened or engineered by dredging, has trapezoidal or box cut cross section, lacks required pools. May have spoil banks. 5 4 3 2 1
Bank Stability Right Bank 8 Left Bank 8 — 16	Bankfull > 60% of bank height. Slope of bank ≤ 60° from bankful to top of bank. Bankfull is within or above the woody 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 4	Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the woody root zone with raw, eroded areas. 3 2 1
Riparian Buffer Zone Width Right Bank 8 Left Bank 9 — 17	Width of vegetation greater than 18 m 10 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 8 Left Bank 8 — 16 Secondary Score 68	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. 10 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

111 **TOTAL SCORE**

Date: 6/4/18	Analyst: T. Riordan, L. Bates, M. Drennan	Signature:

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



Location: Little Wekiva River

Date: 6/4/18

Sampler: T. Riordan, L. Bates, M. Drennan

100 m: Latitude	28.691672
Longitude	-81.393598
0 m: Latitude	28.691730
Longitude	-81.392628

Substrates: Code key, draw proportionate habitat abundance.

		%
S	Snags	0.26
R	Roots/undercut banks	2.0
L	Leaf Packs (or mats)	—
	Aquatic Macrophytes	—
Po		
Po	Pools — total # observed = 3; # range expected = 1-3	

Average width _____ m

Average depth _____ m

Velocity measured at _____ meter mark.

WQ & chemistry taken at 75 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:

- Canopy/buffer plants:
- Magnolia virginiana, Panicum virgatum, Cephalanthus, Commelina, Alternanthera, Sabal, Acer, Hydrilla (one strand on H_2O), Ulmus
- Wetland floodplain
- Flashy system - rain vs. impermeable watershed (urban)

BF = WL + 0.5m

62-160.800, F.A.C

Revision Date: March 1, 2014

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Little Wekiwa River | County: Seminole | Date: 6/4/18 | Investigators: Terry Riordan/Liz Bates

STORET Station Number: G2CE0140

Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover
0	1	N	N	
	2	N		
	3	N		
	4	X		
	5	X		20
	6	X		
	7	N		
	8	N		
	9	N		
10	1	N		
	2	X		
	3	X		
	4	X		
	5	N		24
	6	N		
	7	N		
	8	N		
	9	N		
20	1	N		
	2	N		
	3	X		
	4	X		
	5	N		96
	6	X		
	7	X		
	8	N		
	9	N		
30	1	N		
	2	N		
	3	X		
	4	N		
	5	N		60
	6	N		
	7	N		
	8	N		
	9	3		
40	1	N		
	2	N		
	3	X		
	4	X		
	5	X		84
	6	N		
	7	N		
	8	N		
	9	3		
50	1	N		
	2	N		
	3	N		
	4	N		
	5	X		
	6	N		96
	7	N		
	8	N		
	9	3	N	

Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover
60	1	N	N	
	2	X		
	3	X		
	4	X		
	5	X		60
	6	N		
	7	N		
	8	N		
	9	3		
70	1	3		
	2	X		
	3	N		
	4	N		
	5	N		32
	6	N		
	7	N		
	8	N		
	9	N		
80	1	N		
	2	N		
	3	X		
	4	X		
	5	X		80
	6	X		
	7	N		
	8	N		
	9	N		
90	1	3		
	2	N		
	3	X		
	4	X		
	5	X		88
	6	X		
	7	X		
	8	X		
	9	N		
100	1	N		
	2	X		
	3	X		
	4	X		
	5	X		88
	6	X		
	7	X		
	8	X		
	9	N	N	

Secchi depth	0.7
Estimated?	N
# points ranked 4-6	0
total points assessed	90
% points ranked 4-6	0

(Exclude X's)

Check accompanying data collected at same site/date.	
Algal mat sample	
Linear Veg Survey	
Habitat Assessment	✓
SCI/Biorecon	✓
Water sample	✓

RQ-2018-06-04-56

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

(> 3 considered smothered)

(N to 1 mm)
(3) 6mm
(4) 20mm
(5) 10cm
(6)

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%.

Request Number: RQ-2018-06-04-56

Little Wekiva River + HA + D&B

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: CEN-DIST

Project ID: SMP

Requester: Michael Linger

Field Report Prepared By: Terry Riordan

Collected By: Terry Riordan / Mike Drennan / Liz Bates

Sampling Agency: 21 FL CEN

Location

WIN ID / Field ID →

Little Wekiwa River @ 75m NW of Palm Spring (2987)

G2CE0140

☐ dms

☐ Comp ☑ Grab | Collection (comp begin or grab) Date 6/4/18 Time 1053 Eastern Central | Composite end Date Time | Bottle Group(s) (See pg 2): A

Matrix (type, e.g., Salt, Fresh, etc): Fresh | Diss. Oxygen 5.35 ☑ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

Temp (C) 26.8 | pH 7.25 | Sample Depth 0.3 ☐ ft ☑ m | Sp. Conductance (umho/cm) 250.6

☐ dd ☐ dms | Salinity (ppt) 0.12 | Comments

Location

Field ID: G2CE0140_DUP
WIN: G2CE0140
Location: Little Wekiwa River @ 75m NW of Palm Spring (2987)

☐ dms

☑ Comp ☐ Grab | Collection (comp begin or grab) Date 6/4/18 Time 1055 Eastern Central | Composite end Date Time | Bottle Group(s): B

Matrix (type, e.g., Salt, Fresh, etc): Fresh | Diss. Oxygen 5.35 ☑ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

Temp (C) 26.8 | pH 7.25 | Sample Depth 0.3 ☐ ft ☑ m | Sp. Conductance (umho/cm) 250.6

☐ dd ☐ dms | Salinity (ppt) 0.12 | Comments

Location

Field ID: BLANK_06042018
Location/DI Source: Washroom

☐ dms

☐ Comp ☑ Grab | Collection (comp begin or grab) Date 6/4/18 Time 1105 Eastern Central | Composite end Date Time | Bottle Group(s): B

Matrix (type, e.g., Salt, Fresh, etc): Fresh | Diss. Oxygen ☐ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

Temp (C) | pH | Sample Depth ☐ ft ☐ m | Sp. Conductance (umho/cm)

☐ dd ☐ dms | Salinity (ppt) | Comments

Location

☐ Comp ☐ Grab | Collection (comp begin or grab) Date Time Eastern Central | Composite end Date Time | Bottle Group(s)

Field ID | Matrix (type, e.g., Salt, Fresh, etc) | Diss. Oxygen ☐ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

WIN/STORET # | Temp (C) | pH | Sample Depth ☐ ft ☐ m | Sp. Conductance (umho/cm)

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms | Salinity (ppt) | Comments

---

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Terry Riordan	6/4/18 1230	Fed Ex	1	SR	6.5.18 / 10:00

Group: A Bottle Type: P-1L # of Bottles: 1 Preservative: ICE **Enter Number of Bottles Sent to Lab** 1

ALKALINITY
TURBIDITY
W-CL-IC
W-COLOR
W-F
W-SO4-IC
W-TDS
W-TSS

Group: A Bottle Type: BP-1L # of Bottles: 1 Preservative: ICE **Enter Number of Bottles Sent to Lab** 1

CHLSUITE-W

Group: A Bottle Type: P-500ML # of Bottles: 1 Preservative: ICE And H2SO4 **Enter Number of Bottles Sent to Lab** 1

W-NH3
W-NO2NO3
W-S-A-TP
W-TKN
W-TOC

H2SO4
LOT# SA7163030
EXP: 06/12/2018

Group: A Bottle Type: P-125ML # of Bottles: 1 Preservative: FILTER-ICE **Enter Number of Bottles Sent to Lab** 1

W-PO4-F

Group: B Bottle Type: P-1L # of Bottles: 2 Preservative: ICE **Enter Number of Bottles Sent to Lab** 2

ALKALINITY
TURBIDITY
W-CL-IC
W-COLOR
W-F
W-SO4-IC
W-TDS
W-TSS

Group: B Bottle Type: P-500ML # of Bottles: 2 Preservative: ICE And H2SO4 **Enter Number of Bottles Sent to Lab** 2

W-NH3
W-NO2NO3
W-S-A-TP
W-TKN
W-TOC

H2SO4
LOT# SA7163030
EXP: 06/12/2018

H2SO4
LOT# SA7163030
EXP: 06/12/2018

Group: B Bottle Type: P-125ML # of Bottles: 2 Preservative: FILTER-ICE **Enter Number of Bottles Sent to Lab** 2

W-PO4-F

RQ-2018-06-04-56

Date of Request: 17-MAY-2018
Created By: LINGER_M On: 17-MAY-2018
Modified By: SWANSON_C On: 18-MAY-2018
Customer: CEN-DIST
Project: SMP
Division:
District: Central District
Sampling Event: Little Wekiva River + HA + D&B

Send Coolers To:

Phone: 407-897-4180
FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
Attn: Mike Linger

Send Final Report To:

FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
Attn: Mike Linger

Program Module Number: 1306
Priority: 3
Event Status: S
Criminal Investigation: NO
Chemistry Request Reviewed By: WATTS_J On: 18-MAY-2018
Biology Request Reviewed By: SWANSON_C On: 18-MAY-2018
Sampling Kit Required: YES Ship on: 25-MAY-2018
Sampling Kit Shipped: YES On: 21-MAY-2018
Sampling Kit Packed By: SHAIK_A
Preservatives Needed: NO
Date to Receive Samples: 04-JUN-2018
Received By:

Report Type: Final Only
FTP Data: NO
QC Report: YES
Date Log: NO
Authorization Log: NO

Comments:
A: Site
B: Dup & Blank

Bottle Group A (Water) With 1 Samples:

Bottle Type: P-1L Number of Bottles: 1 Preserved With: ICE

ALKALINITY	Template: DEFAULT	(SM 2320 B-97) Alkalinity in aqueous matrices as mg CaCO3/L
TURBIDITY	Template: DEFAULT	(EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices
W-CL-IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Chloride in aqueous matrices
W-COLOR	Template: DEFAULT	(SM 2120 B) True Color measured at 450 nm
Color (true)		
W-F	Template: DEFAULT	(SM 4500 F-C-97) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
W-SO4-IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Sulfate in aqueous matrices
W-TDS	Template: DEFAULT	(SM 2540 C-97) Total Dissolved Solids in aqueous matrices
W-TSS	Template: DEFAULT	(SM 2540 D-97) Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample

Bottle Type: BP-1L Number of Bottles: 1 Preserved With: ICE

CHLSUITE-W	Template: DEFAULT	(SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry

Bottle Type: P-500ML Number of Bottles: 1 Preserved With: ICE And H2SO4

W-NH3	Template: DEFAULT	(EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L
W-NO2NO3	Template: DEFAULT	(EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L
W-S-A-TP	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L
W-TKN	Template: DEFAULT	(EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices
W-TOC	Template: DEFAULT	(SM 5310 B-00) Nonpurgeable Organic Carbon in aqueous matrices

Bottle Type: P-125ML Number of Bottles: 1 Preserved With: FILTER-ICE

W-PO4-F	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group B (Water) With 2 Samples:

Bottle Type: P-1L Number of Bottles: 2 Preserved With: ICE

ALKALINITY	Template: DEFAULT	(SM 2320 B-97) Alkalinity in aqueous matrices as mg CaCO3/L
TURBIDITY	Template: DEFAULT	(EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices
W-CL-IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Chloride in aqueous matrices