



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2016

PAGE ____ OF ____

Data Qualified?
☒ Yes / ☐ No

STORET Station Name: Caney Creek Upstream of US 90

Date: 01/26/2016

STORET Station ID: G1WA0014

Latitude: 30.5325

(Decimal Degrees)

WBID: 716

RQ - 2016-01-25-58

ORG ID: 21FLWQA

Longitude: -83.9501

(Decimal Degrees)

Receiving Body of Water: Lake Miccosukee

Field ID: G1WA0014

County: Jefferson

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Duplicate Collection	Blank Collection
Curtis Musson								
Ben Ralys								

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☒ Syringe	
☐ Dipper	☐ Other	
Equipment ID		

Collection Method	
☒ Wading	☐ Via Boat
☐ From Shore	☐ Canoe/Kayak
☐ Other (note below)	☐ Electric Motor
	☐ Gasoline Motor

Water Level: Dry / Low / Normal / High / Flooded

Meter ID# Biology #7 Photos: Yes / No

Matrix: Fresh / Marine / DI

Tide Falling: Yes / No / NA

Field Sample

Time Zone	Time	Total Depth (m)	Sample Depth (m)	Temp (°C)	DO (mg/L)	DO (%SAT)	COND (µmhos/cm)	Salinity (ppt)	pH	Secchi Disk (m)
EST	9:45	0.3	0.15	9.50	8.07	70.7	79	0.04	6.57	VOB
CEN										

Biological Samples Collected:

None

HA

SCI

LVS

RPS

LVI

Other

Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	☒ TKN / TP / Nox / NH3 / TOC ☐ Other	☒ Ice ☒ H ₂ SO ₄	SA-5259020	9-16-2016	☒ < 2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO ₃	51/32/10	4/23/16	☒ < 2
Filtered Nutrients	☒ oP ☒ Field Filtered 0.45 µm Filter	☒ Ice			
Chlorophyll	☒ CHLSUITE-W	☒ Ice			
BOD	☐ BOD-INHB ☒ BOD-UNIN	☒ Ice			
Physical/Aggregate	☒ TSS / Turbidity / Alkalinity / Color ☐ Other	☒ Ice			
Macroinvertebrates	☒ MI-FW-QLDC	☒ Formalin			
Microbiology	☐ E Coli ☐ F Coli ☐ Entero ☐ QPCR	☐ Ice			
Periphyton	☐ ALGAE-ID	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PSCL-TQA ☐ W-UHERB-AA ☐ W-GLYPH	☐ Ice ☐ Other			

Contains 1:1 Sulfuric Acid SA-5259020 EXP: 09/15/16 Warning! See MSDS

Contains 1:1 Nitric Acid NA-5113210 EXP: 04/23/16 Warning! See MSDS

QA/QC Sample Information

Duplicate

Time Zone: EST CEN		Sample Depth (m): _____		Field ID: _____	
Time: _____		Total Depth (m): _____			
Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	☐ TKN / TP / Nox / NH3 / TOC ☐ Other _____	☐ Ice ☐ H ₂ SO ₄			☐ < 2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO ₃			☐ < 2
Filtered Nutrients	☐ oP ☐ Field Filtered 0.45 µm Filter	☐ Ice	Place Preservative Sticker(s) Here (If Available)		
Chlorophyll	☐ CHLSUITE-W	☐ Ice			
BOD	☐ BOD-INHB ☐ BOD-UNIN	☐ Ice			
Physical/Aggregate	☐ TSS / Turbidity / Alkalinity / Color ☐ Other _____	☐ Ice			
Microbiology	☐ E Coli ☐ F Coli ☐ Entero ☐ QPCR	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PSCL-TQA ☐ W-UHERB-AA ☐ W-GLYPH	☐ Ice ☐ Other _____			

Blank

Time Zone: EST CEN		Time: _____		Field ID: _____		Location: _____	
☐ Field Blank ☐ Equipment Blank ☐ Field Cleaned Equipment Blank		Equipmet ID: _____					
Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check		
Preserved Nutrients	☐ TKN / TP / Nox / NH3 / TOC ☐ Other _____	☐ Ice ☐ H ₂ SO ₄			☐ < 2		
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO ₃			☐ < 2		
Filtered Nutrients	☐ oP ☐ Field Filtered 0.45 µm Filter	☐ Ice	Place Preservative Sticker(s) Here (If Available)				
Chlorophyll	☐ CHLSUITE-W	☐ Ice					
BOD	☐ BOD-INHB ☐ BOD-UNIN	☐ Ice					
Physical/Aggregate	☐ TSS / Turbidity / Alkalinity / Color ☐ Other _____	☐ Ice					
Microbiology	☐ E Coli ☐ F Coli ☐ Entero ☐ QPCR	☐ Ice					
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PSCL-TQA ☐ W-UHERB-AA ☐ W-GLYPH	☐ Ice ☐ Other _____					

Notes:

Do did Not Pass CCV
SBto-75507
Rps-7730

Place Label Here
(If Available)

Signature: _____

Date: _____

[Signature]

01-26-2016

Field Parameters Entered into LIMS: _____

CM 1-27-2016
(Initials/Date)

Field Parameters QC in LIMS: _____

BR 2/15/16
(Initials/Date)

Date Migrated to STORET: _____

DT 4-22-16
(Initials/Date)

Field Sheets Scanned/Saved: _____

(Initials/Date)

Candy Creek

Form FD 9000-25

FDEP Rapid Periphyton Survey (DEP SOP FS 7230)

Revised 6/12/12

Site: Upstream of US 90County: JeffersonDate: 01-26-2016Investigators: Bey Ralls

Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N - 6)	Canopy Cover	Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N - 6)	Canopy Cover	Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N - 6)	Canopy Cover
0	1	N	93	40	1	N	94	80	1	N	96
	2	N			2	N			2	N	
	3	N			3	N			3	N	
	4	N			4	N			4	N	
	5	N			5	N			5	N	
	6	N			6	N			6	N	
	7	N			7	N			7	N	
	8	N			8	N			8	N	
	9	N			9	N			9	N	
10	1	N	94	50	1	N	93	90	1	N	96
	2	N			2	N			2	N	
	3	N			3	N			3	N	
	4	N			4	N			4	N	
	5	N			5	N			5	N	
	6	N			6	N			6	N	
	7	N			7	N			7	N	
	8	N			8	N			8	N	
	9	N			9	N			9	N	
20	1	N	93	60	1	N	90	100	1	N	93
	2	N			2	N			2	N	
	3	N			3	N			3	N	
	4	N			4	N			4	N	
	5	N			5	N			5	N	
	6	N			6	N			6	N	
	7	N			7	N			7	N	
	8	N			8	N			8	N	
	9	N			9	N			9	N	
30	1	N	96	70	1	N	92		1	N	
	2	N			2	N			2	N	
	3	N			3	N			3	N	
	4	N			4	N			4	N	
	5	N			5	N			5	N	
	6	N			6	N			6	N	
	7	N			7	N			7	N	
	8	N			8	N			8	N	
	9	N			9	N			9	N	

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

Secchi depth: 10B

Check accompanying data collected at same site/date.

Algal mat sample	
Habitat Assessment	✓
Linear Veg. Survey	✓
SC/Biorecon (circle 1)	✓
Water sample	✓
RQ: <u>2016-01-25-58</u>	

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

SBio

75507

RPS-7730

BR 2/19/16

Record "N" for points deeper than the Secchi depth; algae are presumed absent. Record "X" for points shallower than Secchi depth for which substrate cannot be seen or reached with the hand. Note if thickness estimated for deep points which can be seen but not reached.

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 an 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 9000-5 Stream/River Habitat Assessment Field Sheet

SAMPLING AGENCY: Florida Department of Environmental Protection		STORET STATION NUMBER: <u>GLWA0014</u>	DATE (MM/DD/YYYY): <u>01/26/16</u>	RECEIVING BODY OF WATER: <u>Lake Miccosukee</u>
REMARKS: <u>SMP</u>	COUNTY: <u>Jefferson</u>	LOCATION: <u>Candy Creek upstream of</u> <u>US 90</u>		FIELD ID/NAME: <u>GLWA0014</u>

Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components <u>Snag Leaf</u> <u>Roots</u> <u>Rock</u> <u>Aquatic Vegetation</u>	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>9</u>	20 19 18 17 16	15 14 13 12 11	10 <u>9</u> 8 7 6	5 4 3 2 1
Substrate Availability <u>6</u> <u>5-9</u> %	Greater than 30% major productive habitat present at site (100% 83% 66% 48% 30.5%) 20 19 18 17 16	16% to 30% major productive habitat, by aerial extent (30.4% 27% 23% 20% 16%) 15 14 13 12 11	6% to 15% major productive habitat (15% 13% 11% 9% 6%) 10 9 8 7 <u>6</u>	Less than 5% major productive habitat 5 4 3 2 1
Water Velocity <u>15</u> <u>0.23</u> m/s	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 <u>15</u> 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 <u>13</u> <u>43</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 <u>13</u> 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 <u>20</u>	Expected sinuosity given the stream width. No evidence of dredging or artificial straightening. No spoil banks. <u>20</u> 19 18 17 16	Good sinuosity within old channelized area. Evidence of dredging 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 <u>5</u> <u>4</u> Right Bank Left Bank If Banks are Pipe Clay, Bed Rock or Concrete at Bank full: Optimal	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. (+,-,-) <u>5</u> <u>4</u>	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 18 m 8 7 6 (18m 15m 12m)	Width of vegetation 6 to 12 m. human activities close to system 5 4 (9m)	Less than 6 m of buffer zone due to intensive human activities 3 2 1 (6-5m) (4-3m) (<2m)
Riparian Zone Vegetation Quality Right Bank <u>3</u> Left Bank <u>3</u> Secondary Score <u>55</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. 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

98 TOTAL SCORE

Date: <u>01/26/2016</u>	Analyst: <u>Curtis Musson</u> <u>Ben Ratts</u>	Signature:
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DEP Form FD 9000-3 Physical/Chemical Characterization Field Sheet

SAMPLE ID GIWA0014 ORG ID 2IFLWQA LATITUDE 30.5325
COUNTY Jefferson STORET # GIWA0014 LONGITUDE -83.9501
DATE 01-26-2016 TIME 0945 SAMPLING AGENCY FDEP
SITE NAME Cane Creek UPstream of US 90
FIELD ID/NAME GIWA0014 RECEIVING BODY OF WATER Lake Miccosukee

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural <u>39.6</u> Silviculture <u>12.6</u> Field/Pasture <u>15.7</u> Agricultural <u>17.5</u> Residential <u>12.7</u> Commercial <u>—</u> Industry <u>0.9</u> Other (Specify) <u>1.0</u>								Landscape Development Intensity Index (LDI) <u>2.9</u>
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 m wide <u>0.23</u> m/s <u>—</u> m/s <u>—</u> m/s <u>0.2</u> m deep <u>—</u> m deep <u>—</u> m deep		
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u>>18m</u> Right Bank: <u>>18m</u>				Hydrologic Modification Score (per FT 3101) <u>—</u>				
High Water Mark: <u>—</u> + <u>—</u> = <u>—</u> (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 % Coverage Woody Debris (Snags) <u>2.8</u> Undercut Banks / Roots <u>0.8</u> Leaf Packs or Mat <u>2.3</u> Aquatic Vegetation <u>0</u> Rock or Shell Rubble <u>0</u> Sand <u>94.1</u> Mud / Muck / Silt <u>0</u> Other <u>0</u> Other <u>0</u> INVERT # Times Sampled <u>7</u> <u>5</u> <u>7</u> <u>—</u> <u>—</u> <u>1</u> <u>—</u> <u>—</u> PERI # Times Sampled <u>—</u> <u>—</u> <u>—</u> <u>—</u> <u>—</u> <u>—</u> <u>—</u>			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:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Mid:</td> <td><u>0.15</u></td> <td><u>9.50</u></td> <td><u>6.57</u></td> <td><u>8.07</u></td> <td><u>70.7</u></td> <td><u>79</u></td> <td><u>0.04</u></td> </tr> <tr> <td>Bottom:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> Meter ID: <u>Bidger #7</u> TOTAL DEPTH <u>0.3</u>						Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat (%)	Cond. (UMHO/CM)	Salinity (PPT)	SECCHI (M)	Top:								Mid:	<u>0.15</u>	<u>9.50</u>	<u>6.57</u>	<u>8.07</u>	<u>70.7</u>	<u>79</u>	<u>0.04</u>	Bottom:							
Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat (%)	Cond. (UMHO/CM)	Salinity (PPT)	SECCHI (M)																																	
Top:																																								
Mid:	<u>0.15</u>	<u>9.50</u>	<u>6.57</u>	<u>8.07</u>	<u>70.7</u>	<u>79</u>	<u>0.04</u>																																	
Bottom:																																								
ABUNDANCE Not Obs. Rare Common Abundant Periphyton: ☒ ☐ ☐ ☐ Fish: ☐ ☒ ☐ ☐ Aquatic Plants: ☒ ☐ ☐ ☐ Iron/Sulfur Bacteria: ☒ ☐ ☐ ☐			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: <u>5259020</u> Exp: <u>9-16-16</u> <u>5113210</u> <u>4-22-16</u>			Color Tannic ☒ Green (Algae) ☐ Clear ☐ Other (Specify) ☐			Clarity Clear ☐ Slightly Turbid ☒ Turbid ☐ Opaque ☐																																		
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 Curtis Musson / Ben Rains **SIGNATURE:** Curtis Musson **DATE:** 01/26/2016

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

GLWAC014

Left Bank

Upstream

Right Bank

↓ Smothering Notes

Candy Creek upstream

Location: OF US 90

Date: 1-26-2016

Sampler: Ben Ralys

100 m: Latitude _____
Longitude _____
0 m: Latitude 39.5325
Longitude -83.9501

Substrates: Code key, draw proportionate habitat abundance. %

☐ S Snags 2.8
☐ R Roots/undercut banks 0.8
☐ L Leaf Packs (or mats) 2.3
☐ M Aquatic Macrophytes _____
☐ R Rock _____
☐ 70x91 5.9
☐ P Pools total # observed = _____
range expected = _____

Average width _____ m

Average depth _____ m

Velocity measured at _____ meter mark.

Velocity 0.23 m/s

WQ & chemistry taken at 10 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.

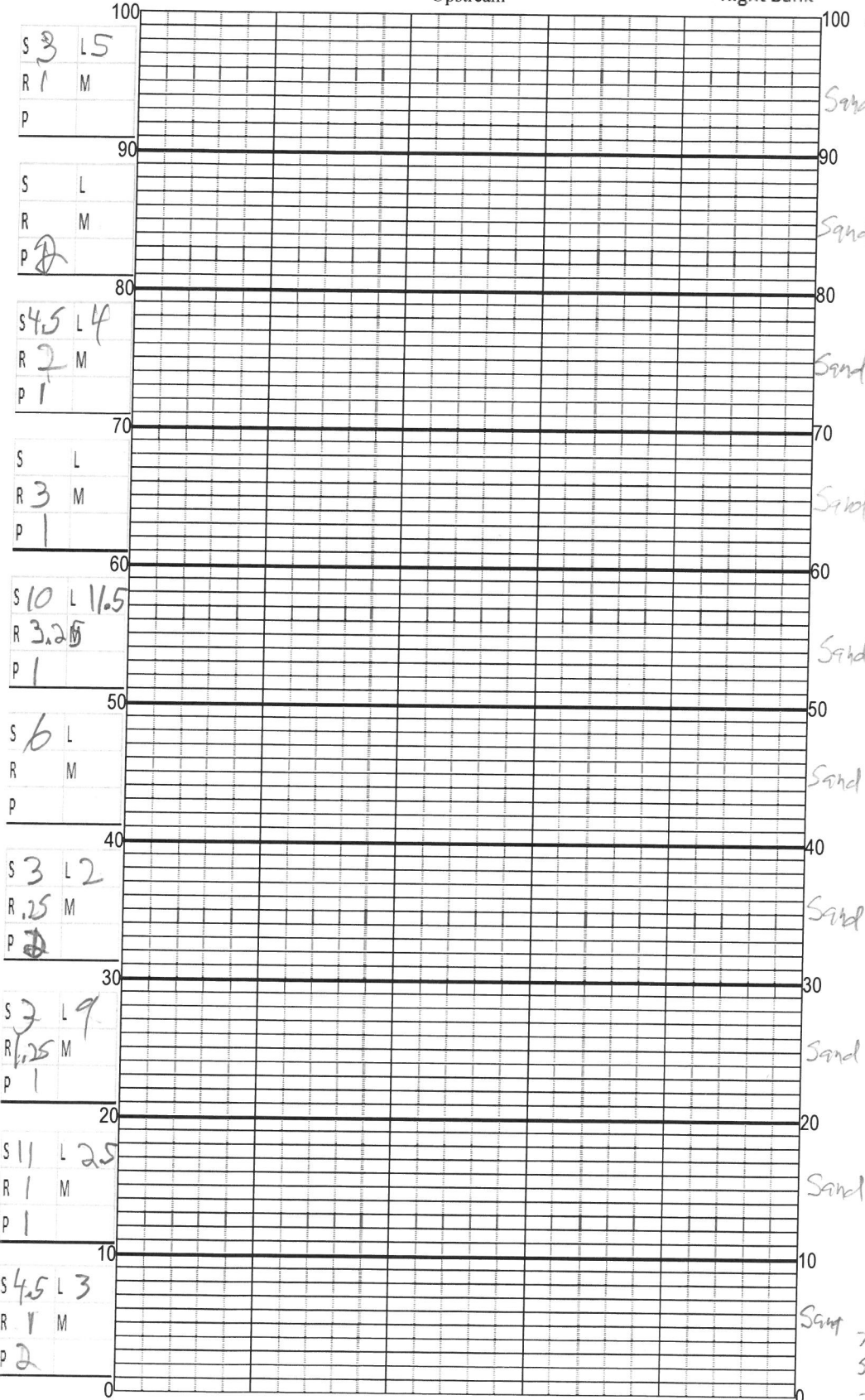
Riparian Buffer Width:
Note areas (on map) where natural vegetation is altered or eliminated.

Notes/Plants Observed:
2m² = 16 Sweeps

# of Sweeps	Conversion	m ²	%
Snag 45	÷ 8	5.6 m ²	
Root 12.5	÷ 8	1.6 m ²	
Leaf 37	÷ 8	4.6 m ²	
Macrophyte 0	÷ 8	m ²	
Rock 0	÷ 8	m ²	
Total Available Habitat		11.8 m ²	5.9
Total Area		m ²	
Total Unavailable Habitat		m ²	

62-160.800, F.A.C

Revision Date: March 1, 2014



Meter Mark	Depth (m)	Width (m)	Velocity Measurement (Sec)
4	0.2	2	4.30 Sec
Avg.			

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

0.23 m/s Expected Number of Pools

$$\left(\frac{100}{12 \times \text{W}} \right) \times 1 =$$

$$\left(\frac{100}{12 \times \text{W}} \right) \times 2 =$$

1-26-2016

RQ-2016-01-25-58

Do

Boldly "X" this box if there is qualified data on this name.

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Meter ID: Biology#7Project: SMP/Ward-Cancy-Lake Lafayette Drain

- Notes:** (1) Numbers ≤ 4 , are rounded down; numbers ≥ 5 are rounded up (e.g., 5.15 becomes 5.2).
 (2) Always wait for meter to stabilize before recording any readings.
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site _____

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification _____

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Curtis Musson	1-26-16	747	19.62	9.17	9.18	100.2	28.8	-	P	L
ICV	Curtis Musson	1-26-16	748	19.66	9.17	9.19	100.4	27.7	-	P	L
CCV	Curtis Musson	1-26-16	1456	19.62	9.17	9.99	109.1	32.9	-	Fail	L
CCV											

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

DO Acceptance criteria from Table ± 0.3 mg/L.**Rapid-Pulse Sensors:** DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.**Optical:** DO gain range 0.85 to 1.15; DO charge N/A.**Steady-state & Galvanic Sensors:** DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Curtis Musson	1-26-16	753	CC14162	10/15/16	996	996	P	LAB
ICV	Curtis Musson	1-26-16	754	CC14162	10/15/16	996	996	P	LAB
CCV	Curtis Musson	1-26-16	1450	CC13882	7/15/2016	1001	103	P	LAB
CCV									

Report specific conductance as a whole number with no decimal figure. Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Curtis Musson	1-26-2016	758	156244	10/20/17	7.0	7.00	-21.4	P	L
Calibr.	Curtis Musson	1-26-16	801	154634	07/20/17	4.0	4.00	152.0	P	L LAB
Calibr.	Curtis Musson	1-26-16	803	146934	10/20/16	10.0	10.01	-198.1	P	L
ICV	Curtis Musson	1-26-16	806	154634	07/20/17	4.0	3.98	153.7	P	L
CCV	Curtis Musson	1-26-16	1452	156244	10/20/17	7.00	6.96	-20.3	P	LAB
CCV										

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU; mV pH7 Range 0 ± 50 ; mV pH 4 Range $+180 \pm 50$;
 mV pH 10 Range -180 ± 50 ; Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly)

Date of Last Depth Verification _____

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air				0.000			

ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater

Curtis Musson

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Caney Creek, Ward Creek and Lake Lafayette Drain

Customer: WQAP

Requester: Benjamin Ralys

Field Report Prepared By:

Project ID: SMP

Collected By: Ben Ralys / Chris Musson

Sampling Agency: FDEP

Location Lake Lafayette Drain 2.50 Meters Downstream of Weems Rd		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 01-26-2016 Time 0845		☒ Eastern ☐ Central		Composite end Date Time		Bottle Group(s) (See pg 2)	
Field ID GIWA0007		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 6.80		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		A	
STORET # GIWA0007		Temp (C) 10.35		pH 6.22		Sample Depth 0.3		Sp. Conductance (umho/cm) 102			
Latitude 30.4544		☐ dd ☒ dms		Longitude -84.2204		☐ dd ☒ dms		Salinity (ppt) 0.05		Comments	
Location Caney Creek upstream of US 90		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 01-26-2016 Time 0945		☒ Eastern ☐ Central		Composite end Date Time		Bottle Group(s)	
Field ID GIWA0014		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 8.07		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		A, B, C	
STORET # GIWA0014		Temp (C) 0945		pH 6.57		Sample Depth 0.1		Sp. Conductance (umho/cm) 79			
Latitude 30.5325		☐ dd ☒ dms		Longitude -83.9501		☐ dd ☒ dms		Salinity (ppt) 0.04		Comments	
Location Ward Creek upstream of Bridge at CR 259		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 01/26/2016 Time 1300		☒ Eastern ☐ Central		Composite end Date Time		Bottle Group(s)	
Field ID GIWA002		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 6.20		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		A	
STORET # GIWA002		Temp (C) 9.42		pH 6.38		Sample Depth 0.3		Sp. Conductance (umho/cm) 74			
Latitude 30.6050		☐ dd ☒ dms		Longitude -83.893257		☐ dd ☒ dms		Salinity (ppt) 0.03		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)			
STORET #		Temp (C)		pH		Sample Depth		Sp. Conductance (umho/cm)			
Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Salinity (ppt)		Comments	

Relinquished By: Chris Musson	Date/Time 01/26/2016	Shipping Method DIP OFF	Received By:	Date/Time	Relinquished By:	Date/Time	Received By: MB	Date/Time 1/26/16/2:25pm
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Group: A	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-NO2						
	W-TDS						
	W-TSS						
Group: A	Bottle Type:	P-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	BOD-UNIN						
Group: A	Bottle Type:	BP-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	CHL-CORR-W						
Group: A	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						
Group: A	Bottle Type:	P-125ML	# of Bottles: 2	Preservative:	ICE-FLTR	Enter Number of Bottles Sent to Lab	2
	W-PO4-F						
Group: B	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-NO2						
	W-TDS						
	W-TSS						
Group: B	Bottle Type:	P-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	BOD-UNIN						
Group: B	Bottle Type:	BP-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1

Group: B	Bottle Type: CHL-CORR-W	BP-1L	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	1
Group: B	Bottle Type: W-ICP W-ICPMS	P-500ML	# of Bottles: 1	Preservative: HNO3	Enter Number of Bottles Sent to Lab	1
Group: B	Bottle Type: W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC	P-500ML	# of Bottles: 1	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	1
Group: B	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 1	Preservative: ICE-FLTR	Enter Number of Bottles Sent to Lab	1

Group C MI-FW-QLDC 1 Bottle Forming

2

Cooler Packing Worksheet for Request: RQ-2016-01-25-58

Caney Creek, Ward Creek and Lake Lafayette Drain

Ship Cooler On: 1/15/2016

Customer/Project: WQAP/SMP

Requester: Benjamin Ralys

Priority: 3

850-245-8443
2600 Blair Stone Rd
MS #3560
Tallahassee, FL 32399-2400
Attn: Benjamin Ralys

Comments:

1 - case of Nitric Acid

Requested Analyses:

Bottle Group: A

of Sites: 2

Container ID: P-1L

Qty: 2 Preservation: ICE

Lot # 00063459

Description: Plastic Bottle 1L

Analysis

ALKALINITY
TURBIDITY
W-CL-IC
W-COLOR
W-F
W-NO2
W-TDS
W-TSS

Description

Alkalinity in aqueous matrices as mg CaCO3/L
Turbidity in aqueous matrices
Chloride in aqueous matrices
True Color measured at 450 nm
Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
Nitrite in aqueous matrices as mg N/L
Total Dissolved Solids in aqueous matrices
Total Suspended Solids in aqueous matrices

Container ID: P-1L

Qty: 2 Preservation: ICE

Lot # 00063459

Description: Plastic Bottle 1L

Analysis

BOD-UNIN

Description

BOD, NOT nitrogen-inhibited

Container ID: BP-1L

Qty: 2 Preservation: ICE

Lot # 1158198

Description: Brown Plastic Bottle 1L

Analysis

Description

Container ID: P-500ML

Qty: 2 Preservation: ICE And H2SO4

Lot # 00063547

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis

W-NH3

W-NO2NO3

W-S-A-TP

W-TKN

W-TOC

Description

Ammonia in aqueous matrices as mg N/L

Nitrite/Nitrate in aqueous matrices as mg N/L

Total Phosphorus in aqueous matrices as mg P/L

Total Kjeldahl Nitrogen in aqueous matrices

Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML

Qty: 2 Preservation: ICE-FLTR

Lot # 00061844

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group: B# of Sites: 1

Container ID: P-1L

Qty: 1 Preservation: ICE

Lot # 00063459

Description: Plastic Bottle 1L

Analysis

ALKALINITY

TURBIDITY

W-CL-IC

W-COLOR

W-F

W-NO2

W-TDS

W-TSS

Description

Alkalinity in aqueous matrices as mg CaCO3/L

Turbidity in aqueous matrices

Chloride in aqueous matrices

True Color measured at 450 nm

Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)

Nitrite in aqueous matrices as mg N/L

Total Dissolved Solids in aqueous matrices

Total Suspended Solids in aqueous matrices

Container ID: P-1L

Qty: 1 Preservation: ICE

Lot # 00063459

Description: Plastic Bottle 1L

Analysis

BOD-UNIN

Description

BOD, NOT nitrogen-inhibited

Container ID: BP-1L

Qty: 1 Preservation: ICE

Lot # 1158198

Description: Brown Plastic Bottle 1L

Analysis

CHL-CORR-W

Description

Phytoplankton chlorophyll-a (corrected for phaeophytin) and phaeophytin by spectrophotometry

Container ID: P-500ML

Qty: 1 Preservation: HNO3

Lot # 00063547

Description: Plastic Bottle 500 mL

Affix RED nitric acid dot to container.

Analysis

W-ICP

W-ICPMS

Description

Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects

Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

Container ID: P-500ML

Qty: 1 Preservation: ICE And H2SO4

Lot # 00063547

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis

W-NH3

W-NO2NO3

W-S-A-TP

W-TKN

W-TOC

Description

Ammonia in aqueous matrices as mg N/L

Nitrite/Nitrate in aqueous matrices as mg N/L

Total Phosphorus in aqueous matrices as mg P/L

Total Kjeldahl Nitrogen in aqueous matrices

Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML

Qty: 1 Preservation: ICE-FLTR

Lot # 00061844

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Cooler Packed By: DEC Date: 1/13/16
DEP Cooler ID #(s): 1 cooler

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle (1 per cooler)
- NA FedEx Bills, if applicable (1 per cooler)
- ☒ Plastic Bags
- ☒ Zip Ties

If Preservation Included:

ID <u>HNO₃</u>	Lot # <u>NA5113210</u>
ID _____	Lot # _____
ID _____	Lot # _____
ID _____	Lot # _____
ID _____	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2016-01-25-58