



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

March 2017

PAGE 1 OF 12

Data Qualified?

Yes / No

Location/STORET Station Name: Lake Lafayette Drain 250 meters downstream of Weems Rd

Date: 4/12/2017

STORET # G1WA0007

WBID: 7561

Latitude: 30.4544

County: Leon

RQ: 2017-04-10-20

ORG ID: 21FLWQA

Longitude: -84.2204

(Decimal Degrees)

Receiving Body of Water: Lake Lafayette

Field ID: G1WA0007_04122017

(Decimal Degrees)

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment			
Curtis Musson					X	X	X	X	X	☒ Sample Container	☐ Van Dorn	☐ Pole	
Ben Ralys					X	X	X	X	X	☐ 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 / Pooled / Low / Normal / High / Flooded								Matrix: Fresh / Marine / DI			
Meter ID# Biology #2				Photos: Yes / No				Tide Falling: Yes / No / NA			
Time Zone	Time	Sample Depth (m)	Total Depth (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (ppt)	Secchi Disk (m)	Sp COND (µmhos/cm)	Temp. (C°)	
EST	1:30	0.2	0.4	8.29	95.1	7.36	0.08	VOB	161	22.19	
CEN											

Biological Samples Collected: None HA SCI RPS Algae ID LVS LVI Other

SBIO ID Numbers: SBIO-ID: 77518 RPS-ID: 8654 Macrophyte-ID: 4242 LIMS#: 1888365

Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☒ H2SO4	6302030	10/28/17	☒ <2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO3	6253070	9-9-17	☒ <2
Filtered Nutrients	☒ W-P04-F ☒ Field Filtered 0.45 µm Filter	☒ Ice			
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			
Macroinvertebrates	☒ MI-FW-QLDC	☒ Formalin			
Periphyton	☒ ALGAE-ID	☒ Ice			
Microbiology	☒ E Coli ☐ F Coli ☐ Enterococci ☐ qPCR	☒ 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-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Ice ☐ Other			

Contains 1:1 Sulfuric Acid SA-6302030 EXP: 10/28/17 Warning! See SDS

Contains 1:1 Nitric Acid NA-6253070 EXP: 09/09/17 Warning! See SDS

Notes:

Lake Lafayette Drain
250 meters
downstream of
Weems Rd

STORET ↓



G1WA0007

Field ID →
Lake Lafayette
Drain 250 meters
downstream of
Weems Rd
April 12, 2017



G1WA0007_04122017

Signature: *Curtis Musson*

Date: 4-12-17

Field Parameters Entered into LIMS: CM4-12-17

(Initials/Date)

Field Parameters QC in LIMS:

(Initials/Date)

Date Migrated to STORET:

(Initials/Date)

Field Sheets Scanned/Saved:

(Initials/Date)

SB#0-1D: 77518

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

SAMPLING AGENCY: Florida Department of Environmental Protection		STORET STATION NUMBER: <u>GLWA0007</u>	DATE (MM/DD/YYYY): <u>04/12/17</u>	RECEIVING BODY OF WATER: <u>Lake Lafayette</u>
REMARKS: <u>SMP</u>	COUNTY: <u>Leon</u>	LOCATION: <u>Lake Lafayette Drain</u>		FIELD ID/NAME: <u>GLWA0007_04122017</u>

Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components <u>Shag Leaf Aquatic Vegetation</u> Substrate Diversity <u>7</u>	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 <u>7</u> 6	One or less major productive habitat. Lack of habitat is obvious, substrates unstable or smothered 5 4 3 2 1
Substrate Availability <u>5</u> <u>4.4</u> %	Major productive habitat present at site (>30% 27.2% 25.8% 24.4% 26.6%) 20 19 18 17 16	Major productive habitat, by aerial extent (21.6% 20.2% 18.8% 17.4% 16%) 15 14 13 12 11	6% to 15% major productive habitat (15% 13% 11% 9% 6%) 10 9 8 7 6	Less than 5% major productive habitat <u>5</u> 4 3 2 1
Water Velocity <u>7</u> <u>0.06</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 15 14 13 12 11	Max. observed at typical transect: 0.05 to 0.1 m/sec 0.1 0.09 0.07 <u>0.06</u> 0.05 10 9 8 <u>7</u> 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>Silt, Algae</u> Primary Score <u>32</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 Right Bank <u>5</u> <u>7</u> Left Bank <u>7</u> 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 <u>7</u> 6	Only meets 1 of the 3 requirements for optimal bank stability. (+, -, -) <u>5</u> 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> <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>4</u> <u>3</u> Left Bank <u>3</u> Secondary Score <u>59</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 <u>4</u>	Less than 25% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). <u>3</u> 2 1

TOTAL SCORE

Date: <u>4-12-17</u>	Analyst: <u>Curtis Musson</u>	Signature: <u>Curtis Musson</u>
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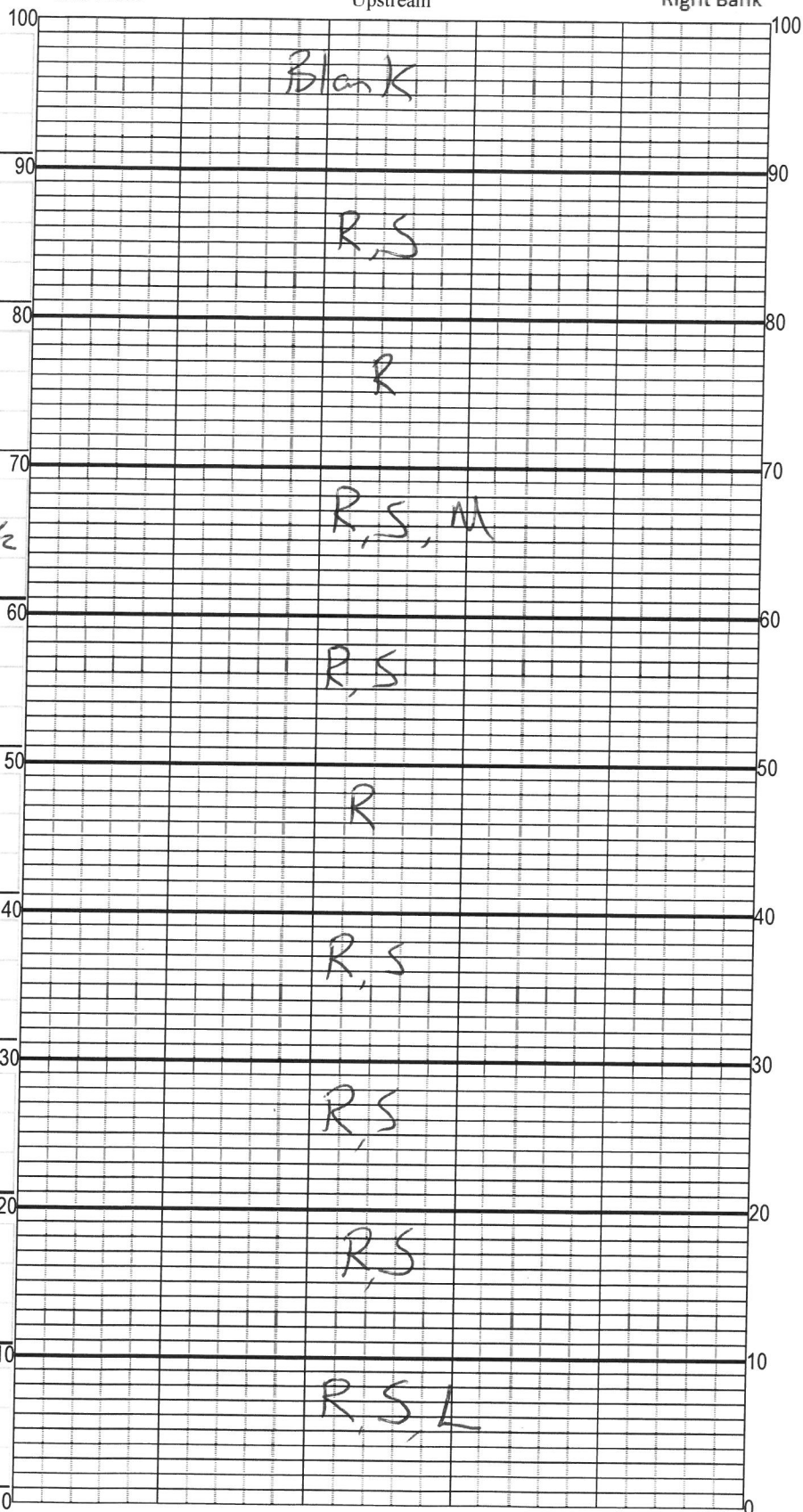
Ben Ralls

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

Left Bank

Upstream

Right Bank



Location: Lake Lafayette Drain

Date: 4/12/17

Sampler: Ben Robs, Curtis

100 m: Latitude _____
Longitude _____
0 m: Latitude _____
Longitude _____

Substrates: Code key, draw proportionate habitat abundance. %

S	Snags	2
R	Roots/undercut banks	2
L	Leaf Packs (or mats)	0.2
M	Aquatic Macrophytes	0.2
Rc	Rock	0
	Total	4.4
P	Pools	total # observed = 3 # range expected = 3-5

Average width 3.1 m

Average depth 0.4 m

Velocity measured at 60 meter mark.

Velocity 0.06 m/s

WQ & chemistry taken at 98 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

2.5 B
5 m
3.0 L
6.6 6.0 minor

# of Sweeps	Conversion	m ²	%
Snag 34	÷ 8	5 m ²	
Root 30	÷ 8	4.5 m ²	
Leaf 3	÷ 8	0.5 m ²	
Macrophyte	÷ 8	0.5 m ²	
Rock	÷ 8	0 m ²	
Total Available Habitat		10.5 m ²	
Total Area		m ²	
Total Unavailable Habitat		m ²	

Meter Mark	Depth (m)	Width (m)	Velocity Measurement (Sec)
60	0.4	3.1	16
Avg.			

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

Expected Number of Pools

$$37.2 \quad \left(\frac{100}{12 \times 24 W} \right) \times 1 = 2.7$$

$$\left(\frac{100}{12 \times W} \right) \times 2 = 5.4$$

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

SAMPLE ID 77518 ORG ID 21FW44 LATITUDE 30.4544
 COUNTY Leon STORET # G1WA0007 LONGITUDE -84.2204
 DATE 4-12-17 TIME 13:31 SAMPLING AGENCY FDEP
 SITE NAME Lake Lafayette Drain 250 meters down stream of Weems Rd.
 FIELD ID/NAME G1WA0007_04/12/17 RECEIVING BODY OF WATER Lake Lafayette/St Marks

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category):								Landscape Development Intensity Index (LDI) <u>6.35</u>
Forest/Natural	Silviculture	Field/Pasture	Agricultural	Residential	Commercial	Industry	Other (Specify)	
<u>19.63</u>	<u>0.18</u>	<u>0.73</u>	<u>0.22</u>	<u>49.65</u>	<u>22.38</u>	<u>5.27</u>	<u>1.95</u>	
Local Watershed Erosion (select one): ☐ None ☒ Slight ☐ Moderate ☐ Heavy								Typical Width (m) Depth (m)/Velocity (m/sec) Transect <u>3.1</u> m wide
Local Watershed NPS Pollution: ☐ No evidence ☐ Slight ☐ Moderate ☒ Heavy								
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u>718m</u> Right Bank: <u>718m</u>				Hydrologic Modification Score (per FT 3101) <u>8</u>				
High Water Mark: <u>1.7</u> + <u>0.4</u> = <u>2.1</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 ☐
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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)
Woody Debris (Snags)	<u>2</u>	<u>7</u>		Top:							
Undercut Banks / Roots	<u>2</u>	<u>7</u>		Mid:	<u>0.2</u>	<u>22.19</u>	<u>7.36</u>	<u>8.29</u>	<u>95.1</u>	<u>161</u>	<u>0.08</u>
Leaf Packs or Mat	<u>0.2</u>	<u>3</u>		Bottom:	<u>0.4</u>						
Aquatic Vegetation	<u>0.2</u>	<u>0.5</u>		Meter ID:	<u>Biology #2</u>						TOTAL DEPTH <u>0.4</u>
Rock or Shell Rubble		<u>1</u>		Water Odors Normal ☒ Petroleum ☐ Sewage ☐ Chemical ☐ Other ☐				Water Surface Oils Normal ☒ Sheen ☐ Globbs ☐ Slick ☐ Other ☐			
Sand		<u>1.5</u>		Water Sample Taken? ☒ Yes ☐ No Sample Preserved? ☒ Yes ☐ No Lot Number: <u>See Field Sheet</u>				Color Tannic ☐ Green (Algae) ☐ Clear ☒ Other (Specify) ☐			
Mud / Muck / Silt				Algae Sample Taken? ☒ Yes ☐ No Sample Preserved? ☒ Yes ☐ No Lot Number: <u>ICE</u> Exp:				Clarity Clear ☐ Slightly Turbid ☐ Turbid ☐ Opaque ☒			
Other				System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other (Specify) ☐							
ABUNDANCE Not Obs. Rare Common Abundant											
Periphyton:	☐	☐	☒	☐							
Fish:	☐	☒	☐	☐							
Aquatic Plants:	☐	☒	☐	☐							
Iron/Sulfur Bacteria:	☒	☐	☐	☐							
AMBIENT FIELD CONDITIONS / NOTES: ☒ The antecedent hydrologic conditions have been met to my best knowledge.											

SAMPLING TEAM Curtis Musson SIGNATURE: Curtis Musson DATE: 4-12-17
Ben Ralls

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Lake Lafayette Drain County: Leon Date: 4/12/17 Investigators: Bur Rabs Curtis M. Voss

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
74 4 0 -	1	34	N		73 2 60 -	1	5	No	
	2	N				2	N		
	3	N				3	N		
	4	N				4	N		
	5	N		86		5	N		96
	6	N				6	N		
	7	N				7	N		
	8	N				8	4		
	9	N				9	N		
73 2 10 -	1	N	N		73 5 70 -	1	N		
	2	N				2	N		
	3	N				3	N		
	4	4		89		4	4		96
	5	N				5	4		
	6	N				6	4		
	7	N				7	4		
	8	N				8	N		
	9	N				9	4		
73 0 20 9	1	X	X		73 2 80 -	1	N		
	2	X	X			2	4		
	3	X	X			3	N		
	4	X	X			4	4		96
	5	X	X	XNA		5	N		
	6	X	X			6	N		
	7	X	X			7	N		
	8	X	X			8	N		
	9	X	X			9	N		
73 8 30 -	1	4	N		73 3 90 -	1	N		
	2	N				2	4		
	3	5				3	N		
	4	6		96		4	N		96
	5	6				5	N		
	6	6				6	N		
	7	6				7	4		
	8	6				8	N		
	9	6				9	4		
73 1 40 4	1	5	N		73 4 100 -	1	N		
	2	N				2	6		
	3	N				3	N		
	4	X				4	N		96
	5	X		96		5	N		
	6	X				6	4		
	7	X				7	4		
	8	N				8	N		
	9	N				9	4	No	
73 6 50 -	1	5	N		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%.				
	2	5							
	3	4							
	4	N							
	5	4		96					
	6	4							
	7	4							
	8	N							
	9	N							

STORET Station Number:
G1 W A 0007

Secchi depth VOB
Estimated? No

points ranked 4-6 37
total points assessed 86
% points ranked 4-6 43%

Check accompanying data collected at same site/date.
Algal mat sample X
Linear Veg Survey X
Habitat Assessment X
SCI/Biorecon SCI X
Water sample X
RQ-2017-04-10-20

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

flow = .06
depth = .04
width = 3.1

SBFO-ID: 77518
RPS-ID: 8654

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

Lake Lafayette

Waterbody: Pruga 2.50 Meters downstream

Date: 4/12/17

County: Leon

Storet Number: G/WA0007

Analyst: Curtis Maysen

OF Weens Rd

Signature: [Signature]

Comments: SMP Sampling

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.

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												Myriophyllum heterophyllum											
Bacopa caroliniana												Najas guadelupensis											
Bacopa monneri												Nuphar luteum											
Bidens mitis												Orontium aquaticum											
Boehmeria cylindrica												Panicum hemitomom											
Centella asiatica												Panicum repens											
Ceratophyllum demersum												Panicum rigidulum											
Chara												Peltandra virginica											
Cicuta maculata												Pistia stratioides											
Cladium jamaicense												Polygonum glabra											
Colocasia esculenta												Polygonum hydropiperoides											
Commelina diffusa												Polygonum punctatum											
Commelina virginica												Pontedaria cordata											
Crinum americanum												Potamogeton illinoensis											
Diodia virginiana												Rhynchospora inundata											
Eichhornia crassipes												Rosa palustris											
Eleocharis (wispy viviparous)												Ruellia simplex											
Hydrilla verticillata												Rumex verticillatus											
Hydrocotyle												Sacciolepis striata											
Hygrophila polysperma												Sagittaria kurziana											
Hymenocallis												Sagittaria lancifolia											
Lachnanthes caroliniana												Sagittaria latifolia											
Landoltia punctata												Salvinia minima											
Lemna												Samolus parviflora											
Limnophila sessiflora												Saururus cernuus											
Ludwigia leptocarpa												Scirpus (schenoplectus) californicus											
Ludwigia palustris												Sparganium americanum											
Ludwigia peruviana												Typha											
Ludwigia repens												Vallisneria americana											
Luziola fluitans												Zizania aquatica											
Micranthemum glomeratum																							
Micranthemum umbrosum																							
Mikania scandens																							
Myriophyllum aquaticum																							
If no Dominant or Co-Dominant were selected, indicate with "X"																							
Indicate % cover macrophytes per section												Notes:											
0-5% Macrophyte Coverage												$< 2m^2$ X $< 2m^2$ SBto_ID: 77518											
>5 and ≤10% Macrophyte Coverage																							
>10 and ≤25% Macrophyte Coverage																							
>25 and ≤50% Macrophyte Coverage																							
> 50% Macrophyte Coverage																							

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

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

Meter Biology #2

RQ- 2017-04-10-20

Project SMP

- 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 03/06/2017

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	4-12-17	725	21.8	8.744	8.75	100.0	44	-	P	LAB
ICV	Curtis Musson	4-12-17	726	21.96	8.744	8.75	100.0	44	-	P	LAB
CCV	Curtis Musson	4-12-17	14:32	22.3	8.69	8.60	101.0	44	-	P	LAB
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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Curtis Musson	4-12-17	729	161111D	11/2017	1000	1000	P	LAB
ICV	Curtis Musson	4-12-17	730	161111D	11/2017	1000	1000	P	LAB
CCV	Curtis Musson	4-12-17	14:33	16cm					
CCV				170310E	03/28	100	104.2	P	LAB

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	4-12-17	7:31	161111 B	5/2018	7.0	7.00	-14	P	LAB
Calibr.	Curtis Musson	4-12-17	733	161111 A	11-17	4.01	4.01	164	P	LAB
Calibr.	Curtis Musson	4-12-17	735	161111 C	5-18	10.01	9.96	-176	P	LAB
ICV	Curtis Musson	4-12-17	736	161111 C	5-18	10.01	9.94	-175	P	LAB
CCV	Curtis Musson	4-12-17	14:35	161111 B	5-18	7.0	7.11	-15	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

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Central Lab Sample Submittal Form

Request Number: 2017-04-10-20

Lake Lafayette Drain, Moriah Creek

Customer: WQ-ASSESS

Project ID: SMP

Requester: Curtis Musson

Collected By: Curtis Musson, Ben Rix

Field Report Prepared By: Curtis Musson

Sampling Agency: FDEP

Page 1 of 2

Location

Moriah Creek 100 meters upstream of Newport Rd.

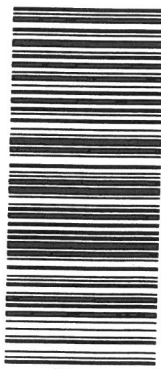
STORET ↓



G1WA0057

Field ID →

STO Moriah Creek 100 meters upstream of Newport Rd.



April 12, 2017 G1WA0057 04122017

Lake Lafayette Drain 250 meters downstream of Weems Rd

STORET ↓



G1WA0007

Field ID →

Lake Lafayette Drain 250 meters downstream of Weems Rd



April 12, 2017 G1WA0007 04122017

Location

Field ID

STORET #

Collection (comp begin or grab) Date Time

Eastern Central

Matrix (Salt, Fresh)

Fresh

Temp (C)

17.78

pH

7.50

Diss. Oxygen (mg/L)

6.65

Sample Depts (m)

0.3

Sp. Conductance (umho/cm)

306

A, C

Latitude (Decimal Degrees)

30.1857

Longitude (Decimal Degrees)

-84.1929

Collection (comp begin or grab) Date Time

Eastern Central

Matrix (Salt, Fresh)

Fresh

Temp (C)

22.19

pH

7.36

Diss. Oxygen (mg/L)

8.29

Sample Depts (m)

0.2

Sp. Conductance (umho/cm)

161

A B, C, D E

Latitude (Decimal Degrees)

30.4544

Longitude (Decimal Degrees)

-84.2204

Collection (comp begin or grab) Date Time

Eastern Central

Matrix (Salt, Fresh)

Fresh

Temp (C)

pH

Diss. Oxygen (mg/L)

6.65

Sample Depts (m)

0.3

Sp. Conductance (umho/cm)

306

A, C

Relinquished By: Curtis Musson

Date/Time

4/12/17

Number of Coolers

2 coolers / 75 sec jug

Received By: Ben Rix

Date/Time

4/12/17 11:45:54

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-SO4-IC								
	W-TDS								
	W-TSS								
Group: A	Bottle Type:	BP-1L	# of Bottles:	2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2	
	CHLSUITE-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-250ML-WO-THI	# of Bottles:	1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1	
	ECOLI-18QT								
Group: C	Bottle Type:	PJ-2L	# of Bottles:	4	Preservative:	Formalin	Enter Number of Bottles Sent to Lab	7	
	MI-FW-QLDC								

Group D W-TOC PMS # Bottles 1
W-TOC 1

Group E Algal-TOC 1

H2SO4
HNO3
ICG

Cooler Packing Worksheet for Request: RQ-2017-04-10-20

Killearn Outlet, Moriah Creek

Ship Cooler On: 4/5/2017

Customer/Project: WQ-ASSESS/SMP

Assigned To: SHAIK_A

Requester: Curtis Musson

Priority: 3

850-245-8453
Division Of Water Facilities, FL DEP
2600 Blair Stone Rd.
Tallahassee, FL 32399-2400
Attn: Curtis Musson

Comments:

No preservatives needed.

Group A: Freshwater Nutrient Kit

Group B: E. coil

Group C: SCI

Group D: Freshwater Nutrient Kit and metals

Packing Notes:

No FedEx labels needed, sample will be dropped off.

Requested Analyses:

Bottle Group: A

of Sites: 2

Container ID: P-1L

Qty: 2 Preservation: ICE

Lot # 00064523

Description: Plastic Bottle 1L

Analysis

ALKALINITY

TURBIDITY

W-CL-IC

W-COLOR

W-F

W-SO4-IC

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)

Sulfate in aqueous matrices

Total Dissolved Solids in aqueous matrices

Total Suspended Solids in aqueous matrices

Container ID: BP-1L

Qty: 2 Preservation: ICE

Lot # 1191091

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry

Container ID: P-500ML

Qty: 2 Preservation: ICE And H2SO4

Lot # 00066885

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 # 00066993

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-250ML-WO-THI

Qty: 1 Preservation: ICE

Lot # 17013
L162 A8

Description:

Analysis

ECOLI-18QT

Description

Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems

Bottle Group: C

of Sites: 2

Container ID: PJ-2L

Qty: 4 Preservation: Formalin

Lot # B10wals

Description: Plastic Jar 2 L

Analysis

MI-FW-QLDC

Description

No. Taxa of FW macroinverts, qual samp, 20 dipnets.

Cooler Packed By: ADP Date: 4-4-17
DEP Cooler ID #(s): 1

Kit must also include:

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

If Preservation Included:

ID _____	Lot # _____
ID _____	Lot # _____
ID _____	Lot # _____
ID _____	Lot # _____
ID _____	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2017-04-10-20