FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

October 2017

PAGE 1 OF ____

Data Qualified? (Yes) / No

PH

Location/STORET Station Name: Tanyard Branch 100 meters upstream of Ralph Strong Rd. **Date:** 10/31/2017 (mm/dd/yyyy)

STORET # G1WA0005 **WBID:** 595 **Latitude:** 30.5832 (Decimal Degrees)

County: Gadsden **RQ -** 2017-10-30-18 **ORG ID:** 21FLWQA **Longitude:** -84.5519 (Decimal Degrees)

Receiving Body of Water: Little River **Field ID:** G1WA0005 10312017

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

Sampling Equipment

- [x] Sample Container [ ] Van Dorn [ ] Pole
- [ ] Carboy [x] Syringe
- [ ] Dipper [ ] Other ____

Equipment ID ____

Collection Method

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

Water Level: Dry / Low / (Normal) / Above Normal / Flooded **Meter ID#** BIO 2 **Matrix:** (Fresh) / Marine / DI

Photos: Yes / (No) **Flow:** No Flow / Intestital / (Flowing) / NA **Tide:** Rising/ Falling/ Slack/ (NA) **Tide Times:** High NA Low (NA)

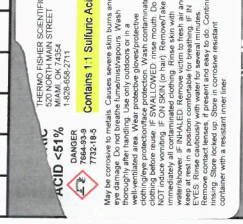
Time Zone	Time	Sample Depth (m)	Total Depth (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPTh)	Secchi Disk (m)	Sp COND (µmhos/cm)	Temp. (C⁰)
(EST)	2:30	0.15	0.3	8.42	88.7	6.83	0.15	VOB	317	17.86
CEN										

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

SBIO ID Numbers: SBIO-ID: 78076 HA-ID: RPS-ID: 8833 Macrophyte-ID: 10758 LIMS#: 1941606

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	7233030	8/21/18	[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			
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	[x] ALGAE-ID	[x] Ice			
Microbiology	[x] E Coli [ ] F Coli [ ] Enterococci	[x] 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-UHERB-AA [ ] W-AHERB-AA [ ] W-PCL-SQ-R [ ] W-PYR-AA-R [ ] W-GLYPH [ ] W-SUC-AA-R	[ ] Ice [ ] Other			

Contains 1:1 Sulfuric Acid
Lot No.: SA7233030
Expires: 08/21/18
See Safety Data Sheet (SDS)



Sticker(s) Here

Notes:
RPS
LVS
Kit A
Ecoli

Tanyard Branch 100 meters upstream of Ralph Strong Rd.

STORET ↓ G1WA0005

Field ID ➔ Tanyard Branch 100 meters upstream of Ralph Strong Rd. Oct 31, 2017

G1WA0005 10312017

Signature: Ben R **Date:** 10/31/17

Field Parameters Entered into LIMS: BR 11-1-17 (Initials/Date) **Field Parameters QC in LIMS:** CM 1-23-18 (Initials/Date)

Date Migrated to STORET: ____ (Initials/Date) **Field Sheets Scanned/Saved:** ____ (Initials/Date)

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

SAMPLING AGENCY: Florida Department of Environmental Protection		STORET STATION NUMBER: GIWA0005	DATE (MM/DD/YY): 10/31/17	RECEIVING BODY OF WATER: Little River
REMARKS:	COUNTY: Gadsden	LOCATION: Tanyard Branch		FIELD ID/NAME: GIWA0005_10312017

Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components (Snag, Roots, Leaf, Rock, Aquatic Vegtation) **Substrate Diversity** 14	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 6 ____%	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 5 4 3 2 1
Water Velocity 16 ,25 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 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 12 ---------- Primary Score 48	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** 20	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 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 10 Left Bank 10 If Banks are PipeClay, BedRock or Concrete at Bank full: Optimal	Bankfull > 60% of bank height. Slope of bank ≤ 60° from bankful to top of bank. Bankfull is within or above the root zone with few raw, eroded areas. (+,+,+) (10) 9	Only meets 2 of the 3 requirements for optimal bank stability. (+,+,-) 8 7 6	Only meets 1 of the 3 requirements for optimal bank stability. (+,-,-) 5 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 10 Left Bank 10	Width of vegetation greater than 18 m (10) 9	Width of vegetation >12 to 18m 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 3 Left Bank 2 ---------- Secondary Score 65	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

113 **TOTAL SCORE**

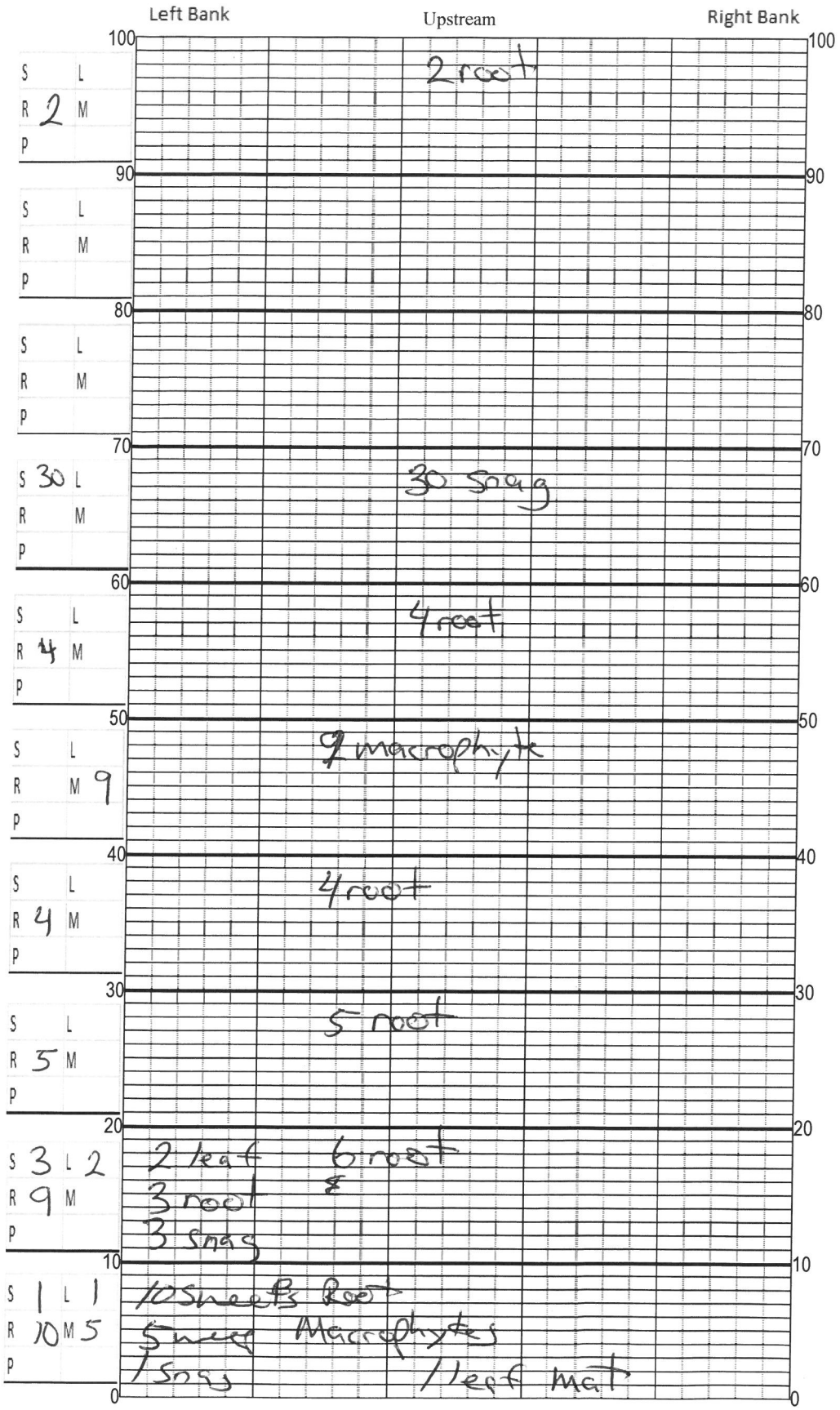
Date: 10/31/17	Analyst: Ben Ralys, Curtis Musson	Signature:

SBFO ID: 78076

HAID: 14876

QC CM 1-23-18

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



Meter Mark	Depth (m)	Width (m)	Velocity Measurement (Sec)
Avg.			

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

Expected Number of Pools

$$\left(\frac{100}{12 * \_\_\_\_W}\right) * 1 =$$

$$\left(\frac{100}{12 * \_\_\_\_W}\right) * 2 =$$

Location: Tanyard Branch

Date: 10/31/17

Sampler: Ben Rabbs, Curtis Mussen

100 m: Latitude _____
Longitude _____

0 m: Latitude _____
Longitude _____

Substrates: Code key, draw proportionate habitat abundance. %

- S Snags _____
- R Roots/undercut banks _____
- L Leaf Packs (or mats) _____
- M Aquatic Macrophytes _____
- Rc Rock _____ _____
- _____ _____
- P Pools total # observed = _____ # range expected = _____

Average width 3.1 m
Average depth 0.3 m

Velocity measured at _____ meter mark.
Velocity _____ m/s

WQ & chemistry taken at _____ 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:
$2m^2$ = 16 Sweeps

# of Sweeps	Conversion	m^2	%
Snag 34	÷ 8	5.1 m^2	
Root 34	÷ 8	5.1 m^2	
Leaf 3	÷ 8	.45 m^2	
Macrophyte 14	÷ 8	2.1 m^2	
Rock	÷ 8	m^2	
Total Available Habitat		13.00 m^2	
Total Area		310 m^2	
Total Unavailable Habitat		m^2	

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site:	County:	Date:	Investigators:
Tanyard Branch	Gadsden	10/31/17	Ben Ralys, Curtis Musson

STORET Station Number: GIWA0005

Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover
0	1	3		
	2	3		
	3	2		
	4	2		
	5	2		48
	6	2		
	7	2		
	8	2		
	9	2		
10	1	5		
	2	5		
	3	5		
	4	5		
	5	5		96
	6	5		
	7	5		
	8	5		
	9	5		
20	1	4		
	2	4		
	3	n		
	4	n		
	5	n		0
	6	n		
	7	n		
	8	3		
	9	3		
30	1	3		
	2	4		
	3	4		
	4	n		
	5	4		94
	6	n		
	7	n		
	8	n		
	9	n		
40	1	n		
	2	n		
	3	n		
	4	n		
	5	n		69
	6	n		
	7	n		
	8	n		
	9	4		
50	1	4		
	2	4		
	3	4		
	4	4		
	5	4		0
	6	n		
	7	4		
	8	4		
	9	4		

Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover
60	1	6		
	2	4		
	3	n		
	4	n		
	5	n		0
	6	n		
	7	n		
	8	4		
	9	4		
70	1	4		
	2	4		
	3	4		
	4	4		
	5	4		53
	6	4		
	7	4		
	8	4		
	9	4		
80	1	4		
	2	4		
	3	4		
	4	n		
	5	n		96
	6	4		
	7	4		
	8	4		
	9	4		
90	1	n		
	2	n		
	3	4		
	4	4		
	5	n		32
	6	n		
	7	4		
	8	4		
	9	4		
100	1	4		
	2	4		
	3	4		
	4	4		
	5	4		96
	6	4		
	7	4		
	8	4		
	9	4		

Secchi depth	
Estimated?	
# points ranked 4-6	
total points assessed	
% points ranked 4-6	

(Exclude X's)

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

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)

QC, CM, 11/23/18

SBIOID: 78076
RPSID: 8833

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

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

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

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

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

Waterbody: Tanyard Branch | Date: 10/31/17 | County: Gadsden | Storet Number: GIWAC005

Analyst: Ben Ralys, Curtis Musson | Signature: Ben R

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 m^2 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 0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	Specimen collected (check)
Alternanthera philoxeroides		X	X	X	X	X	X	X	X	X	
Bacopa caroliniana											
Bacopa monneri											
Bidens mitis											
Boehmeria cylindrica											
Centella asiatica											
Ceratophyllum demersum											
Chara											
Cicuta maculata											
Cladium jamaicense											
Colocasia esculenta	X										
Commelina diffusa											
Commelina virginica											
Crinum americanum											
Diodia virginiana											
Eichhornia crassipes											
Eleocharis (wispy viviparous)											
Hydrilla verticillata											
Hydrocotle		X									
Hygrophila polysperma											
Hymenocallis											
Lachnanthes caroliniana											
Landoltia punctata											
Lemna	X	X	X	X	X	X					
Limnophila sessiflora											
Ludwigia leptocarpa											
Ludwigia palustris											
Ludwigia peruviana			X	X	X	X		X			
Ludwigia repens											
Luziola fluitans											
Micranthemum glomeratum											
Micranthemum umbrosum											
Mikania scandens											
Myriophyllum aquaticum		X			X	X					
If no Dominant or Co-Dominant were selected, indicate with "X"											

HERBACEOUS SPECIES	Meter Mark 0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	Specimen collected (check)
Myriophyllum heterophyllum											
Najas guadelupensis											
Nuphar luteum											
Orontium aquaticum											
Panicum hemitomon											
Panicum repens											
Panicum rigidulum											
Peltandra virginica											
Pistia stratioides											
Polygonum glabra		X	X								
Polygonum hydropiperoides	X	X	X	X							
Polygonum punctatum											
Pontedaria cordata											
Potamogeton illinoensis											
Rhynchospora inundata											
Rosa palustris											
Ruellia simplex											
Rumex verticillatus											
Sacciolepis striata			X	X		X		X			
Sagittaria kurziana											
Sagittaria lancifolia											
Sagittaria latifolia											
Salvinia minima	X	X	X	X	X	X					
Samolus parviflora											
Saururus cernuus											
Scirpus (schenoplectus) californicus											
Sparganium americanum											
Typha											
Vallisneria americana											
Zizania aquatica											
Hydrolia Q		X									
~~Cucumber~~ Vine (FAC)			X					?			cn
Lycopus				X							
Weldia Trylobia							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											

Notes:

SBIO ID T8076

Macrophyte ID 10758

☐ < 2m2

Macrophyte QC Report

STORET: G1WA0005
Visit ID: 78076
Macrophyte ID: 10758
LIMS ID: 1941606

Sample Date: 10/31/2017
Collector Name: Musson, Curtis
Identifier Name: Musson, Curtis

Macrophyte Sample Comments:

Taxa Name:	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	
Alternanthera philoxeroides		P	P	P	P	P	P	P	P	P	CM
Colocasia esculenta	P										CM
Hydrocotyle		P									CM
Hydrolea quadrivalvis		P									CM
Lemna	P	P	P	P	P	P					CM
Ludwigia peruviana			P	P	P	P		P			CM
Lycopus					P						CM
Myriophyllum aquaticum		P			P	P					CM
Polygonum glabrum		P	P								CM
Polygonum hydropiperoides	P	P	P	P							CM
Sacciolepis striata			P		P		P		P		CM
Salvinia minima	P	P	P	P	P	P					CM
Sphagneticola trilobata							P				CM

QC CM 1-23-18

This data has not been fully approved at this time.

Stone Mill, Tan Yard B,

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

pH

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

Meter ID: BTO #2 RQ- 2017-10-30-18 Project: SMP

Notes: (1) Always wait for meter to stabilize before recording any readings.
(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).
(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	10/31/17	659	19.66	9.147	9.15	100.0	51	—	P / F	P / F
ICV	Curtis Musson	10/31/17	700	19.67	9.147	9.16	100.0	51	—	P / F	P / F
CCV	Curtis Musson	10/31/17	1633	21.59	8.812	8.54	96.9	50	—	P / F	P / F
CCV										P / F	L / F

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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	Curtis Musson	10/31/17	702	171005D	10/2018	1000	1000	P / F	P / F
ICV	Curtis Musson	10/31/17	703	171005D	10/2018	1000	1000	P / F	P / F
CCV	Curtis Musson	10/31/17	1636	171005E	10/2018	100	101	P / F	P / F
CCV								P / F	L / F

Conductivity Acceptance criteria ± 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	10/31/17	705	170614B	12/2018	7.0	7.00	45	P / F	P / F
Calibr.	Curtis Musson	10/31/17	707	171005A	10/2018	4.01	4.01	214	P / F	P / F
Calibr.	Curtis Musson	10/31/17	710	170310C	09/2018	10.01	9.97	-113	P / F	P / F
ICV	Curtis Musson	10/31/17	712	171005A	10/2018	4.01	3.99	214	P / F	P / F
CCV	Curtis Musson	10/31/17	1637	170614B	12/2018	7.0	6.54	34	P / F	L / F
CCV									P / F	L / F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50; mV pH 4 Range +180 ± 50; mV pH 10 Range -180 ± 50;
If mV are recorded: slope from 7 to 10 _____, slope from 4 to 7 _____ (both must be between 165 and 180 mV)

Is meter equipped with depth sensor? Yes / **No** If yes, list date of last quarterly depth verification _____

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value meters	Pass / Fail	Lab / Field
Pressure mode in air	Curtis Musson	10/31/17	704	0.00	0.00	P / F	P / F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria ± 5 % or ± 0.05m, whichever is greater.

COMMENTS:

Request Number: RQ-2017-10-30-18

Stone Mill, tanyard, Big Branch

Customer: WAS-SECT

Project ID: SMP

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Central Lab Sample Submittal Form

Page 1 of 1

Requester: Curtis Musson

Field Report Prepared By: Ben Ralys

Collected By: Ben Ralys Curtis Musson

Sampling Agency: FDEP

Location: Stone Mill Creek Upstream of Dianna St

STORET: Q2WA0012

Field ID: Stone Mill Creek Upstream of Dianna St

Oct 31, 2017

Q2WA0012_10312017

☐ Comp ☒ Grab	Collection (comp begin or grab) Date 10/31/17 Time	Eastern / Central	Collection (comp begin or grab) Date — Time —	Bottle Group(s)
Matrix (Salt, Fresh): Fresh	Diss. Oxygen (mg/L): 8.17			
Temp (C): 15.82	pH: 6.67	Sample Depts (m): 0.25	Sp. Conductance (umho/cm): 68	A, B, C
Salinity (ppt): 0.03	Comments:			
Latitude (Decimal Degrees): 30.1577919		Longitude (Decimal Degrees): -85.2302		

Location: Big Branch Downstream of Road 5

STORET: Q2WA0010

Field ID: Big Branch Downstream of Road 5

Oct 31, 2017

Q2WA0010_10312017

☐ Comp ☒ Grab	Collection (comp begin or grab) Date 10/31/17 Time 912	Eastern / Central	Collection (comp begin or grab) Date — Time —	Bottle Group(s)
Matrix (Salt, Fresh): Fresh	Diss. Oxygen (mg/L): 6.69			
Temp (C): 11.14	pH: 4.58	Sample Depts (m): 0.15	Sp. Conductance (umho/cm): 28	A, B
Salinity (ppt): 0.01	Comments:			
Latitude (Decimal Degrees): 30.158		Longitude (Decimal Degrees): -85.252		

Location: Tanyard Branch 100 meters upstream of Ralph Strong Rd.

STORET: G1WA0005

Field ID: Tanyard Branch 100 meters upstream of Ralph Strong Rd.

Oct 31, 2017

G1WA0005 10312017

☐ Comp ☒ Grab	Collection (comp begin or grab) Date 10/31/17 Time 1430	Eastern / Central	Collection (comp begin or grab) Date — Time —	Bottle Group(s)
Matrix (Salt, Fresh): Fresh	Diss. Oxygen (mg/L): 8.42			
Temp (C): 17.86	pH: 6.83	Sample Depts (m): 0.15	Sp. Conductance (umho/cm):	A, B, C
Salinity (ppt): 0.15	Comments: NO SCI collected, Just Algal ID			
Latitude (Decimal Degrees): 30.5832		Longitude (Decimal Degrees): -84.5519		

Relinquished By:	Date/Time	Number of Coolers	Received By:	Date/Time
Curtis Musson	10/31/2017 / 1449	25 cf Jug / K2 coolers	ABB	10-31-17 / 14:49

Group	Bottle Type		# of Bottles	Preservative		Enter Number of Bottles Sent to Lab
A	P-1L	ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS	3	ICE		3
A	BP-1L	CHLSUITE-W	3	ICE		3
A	P-500ML	W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC	3	ICE And H2SO4		3
A	P-125ML	W-PO4-F	3	FILTER-ICE		3
B	P-250ML-WO-THI	ECOLI-18QT	3	ICE		3
C	PT-50ML	ALGAL_ID	2	ICE		2
C	PJ-2L	MI-FW-QLDC	4	Formalin		2

Cooler Packing Worksheet for Request: RQ-2017-10-30-18
Stone Mill, Tanyard, BigBranch
Ship Cooler On: 10/24/2017
Customer/Project: WAS-SECT/SMP

Assigned To: GREENWOO_J
Requester: Curtis Musson
Priority: 3

850-245-8453
2600 Blair Stone Rd

Tallahassee, FL 32399

Attn: Curtis Musson

Comments:
No preservatives needed.

Group A: Freshwater Kit, No Metals
Group B: E. coli
Group C: SCI, Algal ID

Requested Analyses:

Bottle Group: A # of Sites: 3

Container ID: P-1L **Qty: 3** **Preservation: ICE** **Lot #** 0009122

Description: Plastic Bottle 1L

Analysis	Description
ALKALINITY	Alkalinity in aqueous matrices as mg CaCO3/L
TURBIDITY	Turbidity in aqueous matrices
W-CL-IC	Chloride in aqueous matrices
W-COLOR	True Color measured at 450 nm
W-F	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
W-SO4-IC	Sulfate in aqueous matrices
W-TDS	Total Dissolved Solids in aqueous matrices
W-TSS	Total Suspended Solids in aqueous matrices

Container ID: BP-1L **Qty: 3** **Preservation: ICE** **Lot #** 1209913

Description: Brown Plastic Bottle 1L

Analysis	Description
CHLSUITE-W	Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry

Container ID: P-500ML **Qty: 3** **Preservation: ICE And H2SO4** **Lot #** DOC86654

Description: Plastic Bottle 500 mL Affix YELLOW sulfuric acid dot to container.

Analysis	Description
W-NH3	Ammonia in aqueous matrices as mg N/L
W-NO2NO3	Nitrite/Nitrate in aqueous matrices as mg N/L
W-S-A-TP	Total Phosphorus in aqueous matrices as mg P/L
W-TKN	Total Kjeldahl Nitrogen in aqueous matrices
W-TOC	Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML **Qty: 3** **Preservation: FILTER-ICE** **Lot #** DOC8347

Description: Plastic Bottle 125 mL

Analysis	Description
W-PO4-F	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group: B # of Sites: 3

Container ID: P-250ML-WO-THI **Qty: 3** **Preservation: ICE** **Lot #** L17048

Description:

Analysis	Description
ECOLI-18QT	Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems

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Bottle Group: C # of Sites: 2

Container ID: PT-50ML **Qty: 2** **Preservation: ICE** **Lot #** 03716003

Description: Plastic Tube 50 mL

Analysis	Description
ALGAL_ID	Qualitative assessment of algal taxa present without counts

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Container ID: PJ-2L **Qty: 4** **Preservation: Formalin** **Lot #** BIOWASH

Description: Plastic Jar 2 L

Analysis	Description
MI-FW-QLDC	No. Taxa of FW macroinverts, qual samp, 20 dipnets.

Cooler Packed By: J.D. Number of Coolers: 2 Date: 10/24/17

Kit must also include:
- ✓ Field Sheets
- ✓ Temperature Control Bottle
- ___ FedEx Bills, if applicable
- ✓ Plastic Bags
- ✓ Zip Ties

If Preservation Included:

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

PLEASE RETURN ALL COOLERS FOR RQ-2017-10-30-18