FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified? Yes / No

WIN Station Name: ~~G2TLHR0039~~ CG South Mosquito Creek @ Power line **Date:** 03/26/2019 (mm/dd/yyyy)

WIN/ Field ID: G2 TLHR0039 **WBID:** 393 **Latitude:** 30.6575 (Decimal Degrees)

County: Gadsden **ORG ID:** ZIFLTLHR **Longitude:** 84.7143 (Decimal Degrees)

Receiving Body of Water: Mosquito Creek **RQ-** 2018-12-31-35

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Ben Harden	✓		✓		
Jack Burchett		✓		✓	✓
Chris Green					

Sampling Equipment
- ☑ Sample Container ☐ Van Dorn ☐ Pole
- ☐ Carboy ☐ Syringe
- ☐ Dipper ☐ Other
- Depth Measured with ProDSS
- Equipment ID 155075

Collection Method
- ☑ Wading ☐ Canoe/Kayak
- ☐ From Shore ☐ Electric Motor
- ☐ Other ☐ Gasoline Motor

Water Level: Dry/ Pooled/ Low / (Normal) / High / Flooded **Meter ID#** 155075 **Matrix:** (Fresh) / Marine / DI

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

Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPTh)	Sp COND (µmhos/cm)	Temp. (C°)
(EST)	1215	1.0	0.3	0.3	9.15	96.7	7.44	0.02	53.9	18.0
CEN										

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

SBIO ID Numbers: SBIO-ID: 79286 HA-ID: 15713 RPS-ID: 9281 Macrophyte-ID: LIMS#:

Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	☑ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☑ Ice ☑ H_2SO_4	SA83407.0	12/10/19	☑ <2
Metals	☐ W-ICPMS ☑ W-ICP	☑ Ice ☑ HNO_3	NA83405.0	12/10/19	☑ <2
Filtered Nutrients	☑ W-PO4-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-BR-IC / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☐ MI-FW-QLDC	☐ Formalin			
Periphyton	☑ ALGAE-ID	☐ Ice			
Microbiology	☑ E Coli ☐ F Coli ☐ Enterococci	☑ Ice			
Molecular	☐ PCR-FILTER ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD	☐ Ice			
Tracers	☐ W-E8321-DI ☐ W-E8321-MS	☐ Ice			
Pesticides	☑ W-PSNP-TQ ☐ W-CT-CL-R ☑ W-E8321-DI ☐ W-PCL-SQ-R ☑ WE8321-MS ☐ W-CARB-AA	☑ Ice			
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C				

Place Preservative Sticker(s) Here (If Available)

Notes:
SBIO station Created 3/27

Field/WIN ID → G2TLHR0039

Location ↓ South Mosquito Creek @ Power Line

Signature: **Date:** 03/26/2019

LIMS EVENT ID: TLH-ROC-2019-03-26-01 **WIN Import ID:**

Enter Field Parameters, Verify Station ID In LIMS DMT: CG 3-27-19 (Initials/Date) **QC Station ID, Field Parameters In LIMS DMT:** (Initials/Date)

Scan/Save Field Sheets CG 3-27-19 (Initials/Date) **Migrate Data to WIN:** (Initials/Date) **Verify Data In WIN:** (Initials/Date)

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

SAMPLE ID _____ ORG ID 21FLTLHR LATITUDE _____

COUNTY Gadsden STORET # G2TLHR0039 LONGITUDE _____

DATE 3-26-2019 TIME 12:30 SAMPLING AGENCY 8034

SITE NAME South Mosquito Creek @ Power Line

FIELD ID/NAME G2TLHR0039 RECEIVING BODY OF WATER Mosquito Creek

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)
50	50						

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: >18m Right Bank: >18m

Hydrologic Modification Score (per FT 3101): _____

High Water Mark: 1.5 (m) + 1.0 (above present water level) = 2.5 (present depth) (above bed)

Artificially Impounded: ☐ Yes ☒ No

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

7 m wide

0.25 m/s	0.25 m/s	0.25 m/s
0.3 m deep	0.5 m deep (1.0 CC)	0.3 m deep

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

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

SEDIMENT / SUBSTRATE

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)	2.9 (CC)	5	
Undercut Banks / Roots	0.6	5	
Leaf Packs or Mat	0.4	5	
Aquatic Vegetation			
Rock or Shell Rubble..			
Sand.....	96.1	5	
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	16.0	7.44	9.15	96.7	53.9	0.02	0.3
Mid:								☐ VOB
Bottom								TOTAL DEPTH

Meter ID: Pro DSS — TOTAL DEPTH: 1.0

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: _____ Exp: _____

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:	☒	☐	☐	☐

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

AMBIENT FIELD CONDITIONS / NOTES:

Hurrican Michael dropped many trees across stream in 10/18

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

SAMPLING TEAM

Chris Green

Jade Burtchett

Ben Harden

SIGNATURE: _____ DATE: 3-26-19

62-160.800, F.A.C.

Revision Date: January 2017

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

SAMPLING AGENCY:		STORET STATION NUMBER:	DATE (MM/DD/YY):	RECEIVING BODY OF WATER:
8034			3-26-19	Mosquito Creek
REMARKS:	COUNTY: Gadsden	LOCATION: South Mosquito Creek @ Power line		FIELD ID/NAME: GZTLHR0039

Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components **Substrate Diversity** 12	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 5	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 15	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 44	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 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 7 6 7 Left Bank 7	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 10 Left Bank 10	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 10 Left Bank 10 Secondary Score 73	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

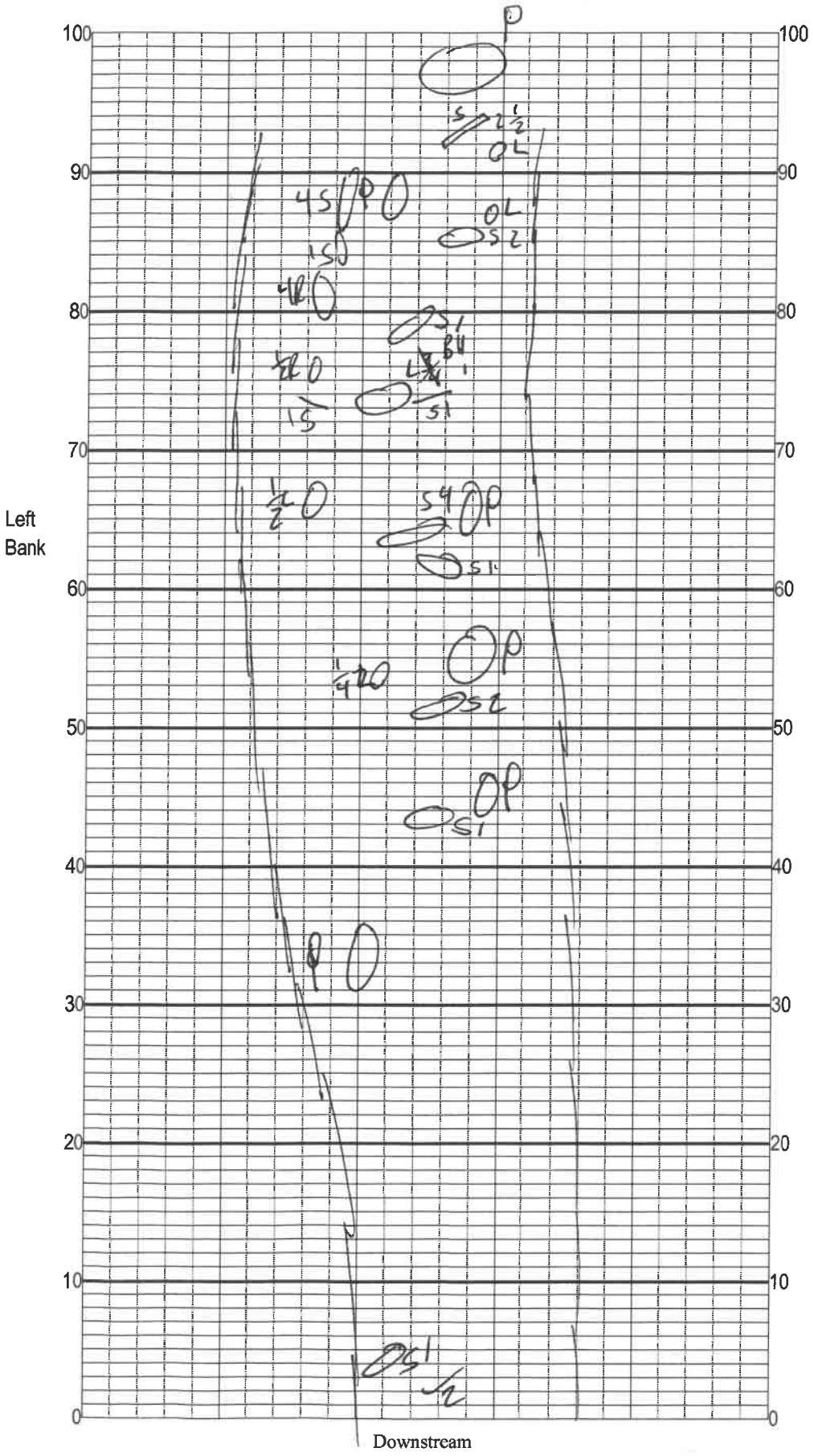
117 **TOTAL SCORE**

Date:	Analyst:	Signature:
03/26/2019	Ben Herdon Chris Green	

62-160.800, F.A.C.

Revision Date: January 2017

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



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

Location: South Mosquito Creek C

Date: 03/26/2019

Sampler: Ben Harden

Power line

100 m: Latitude	
Longitude	
0 m: Latitude	
Longitude	

Substrates: Code key, draw proportionate habitat abundance. %

S	Snags 20	2.857
R	Roots/undercut banks 4	4 B/H 0.571
L	Leaf Packs (or mats) 3	3 B/H 0.428
	Aquatic Macrophytes	
P	Pools total # observed = 6	
	# range expected =	

Average width 7 m

Average depth 0.6 m

Velocity measured at 10 meter mark.

WQ & chemistry taken at 0 meter mark.

Habitat Smothering:
Note areas (on map) where sand or silt is smothering substrates, limiting habitability.

Bank Stability:
Note areas (on map) with unstable, eroding banks.

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

Plants observed / other notes:

0.25 m/s
4 & C

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

WIN

Waterbody: South Mosquito Creek	Date: 32619	County: Gadsden	Storet Number: 62TLHR0039
Analyst: Chris Green		Signature: CG	
Comments: 22m² of veg			

Instructions: Note taxa growing in the water with a checkmark if present, "D" if dominant, and "C" if codominant (dominance only if 1m² 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											
Bacopa caroliniana											
Bacopa monneri											
Bidens mitis											
Boehmeria cylindrica											
Centella asiatica											
Ceratophyllum demersum											
Chara											
Cicuta maculata											
Cladium jamaicense											
Colocasia esculenta											
Commelina diffusa											
Commelina virginica											
Crinum americanum											
Diodia virginiana											
Eichhornia crassipes											
Eleocharis (wispy viviparous)											
Hydrilla verticillata											
Hydrocotle											
Hygrophila polysperma											
Hymenocallis											
Lachnanthes caroliniana											
Landoltia punctata											
Lemna											
Limnophila sessiflora											
Ludwigia leptocarpa											
Ludwigia palustris											
Ludwigia peruviana											
Ludwigia repens											
Luziola fluitans											
If no Dominant or Co-Dominant were selected, indicate with "X"											
Indicate % cover macrophytes per section											
0-5% Macrophyte Coverage											
>5 and ≤10% Macrophyte Coverage											
>10 and ≤25% Macrophyte Coverage											
>25 and ≤50% Macrophyte Coverage											
> 50% Macrophyte Coverage											

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)
Micranthemum glomeratum											
Micranthemum umbrosum											
Myriophyllum aquaticum											
Najas guadelupensis											
Nuphar luteum											
Orontium aquaticum											
Panicum hemitomon											
Panicum repens											
Panicum rigidulum											
Pistia stratioides											
Polygonum glabra											
Polygonum hydropiperoides											
Polygonum punctatum											
Pontedaria cordata											
Potamogeton illinoensis											
Ruellia simplex											
Sacciolepis striata											
Sagittaria kurziana											
Sagittaria lancifolia											
Sagittaria latifolia											
Salvinia minima											
Samolus parviflora											
Saururus cernuus											
Sparganium americanum											
Typha											
Vallisneria americana											
Zizania aquatica											

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site:	County:	Date:	Investigators:
South Mosquito Creek @ Power Line	Gadsden	3-26-19	Chris Green

STORET Station Number: WIN 62TLHR0039

Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover
0	1	N	N	
	2			
	3			
	4			
	5			96
	6			
	7			
	8			
	9			
10	1			
	2			
	3			
	4			
	5			68
	6			
	7			
	8			
	9			
20	1			
	2			
	3			
	4			
	5			25
	6			
	7			
	8			
	9			
30	1			
	2			
	3			
	4			
	5			15
	6			
	7			
	8			
	9			
40	1			
	2			
	3			
	4			
	5			30
	6			
	7			
	8			
	9			
50	1			
	2			
	3			
	4			
	5			95
	6			
	7			
	8			
	9			

Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover
60	1	N	N	
	2			
	3			
	4			
	5			0
	6			
	7			
	8			
	9			
70	1			
	2			
	3			
	4			
	5			0
	6			
	7			
	8			
	9			
80	1			
	2			
	3			
	4			
	5			32
	6			
	7			
	8			
	9			
90	1			
	2			
	3			
	4			
	5			45
	6			
	7			
	8			
	9			
100	1			
	2			
	3			
	4			
	5			95
	6			
	7			
	8			
	9			

Secchi depth	0.3
Estimated?	no

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

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

RQ-2018-12-31-35

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

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

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

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

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

Request Number: RQ-2018-12-31-35

SCI Kits

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: TLH-ROC

Project ID: SMP

Requester: Michael Eckles

Collected By: Burtchett/Harden/Green

Field Report Prepared By: Burtchett/Harden/Green

Sampling Agency: 8034

Field/WIN ID → G2TLHR0041

Location ↓

Unnamed Branch @ Hardaway Rd 2

Latitude ☐dd ☐dms Longitude

☐ Comp ☑ Grab | Collection (comp begin or grab) Date 03/26/2019 Time 0940 | Eastern / Central | Composite end Date Time | Bottle Group(s) (See pg 2): A

Matrix (type, e.g., Salt, Fresh, etc): Fresh | Diss. Oxygen 9.20 ☑ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

Temp (C) 16.8 | pH 6.04 | Sample Depth 0.2 ☐ ft ☑ m | Sp. Conductance (umho/cm) 25.1

☐dd ☐dms Salinity (ppt) 0.01 | Comments

Field/WIN ID → G2TLHR0041

Location ↓

Unnamed Branch @ Hardaway Rd 2

Latitude ☐dd ☐dms Longitude

☐ Comp ☑ Grab | Collection (comp begin or grab) Date 03/26/2019 Time 1000 | Eastern / Central | Composite end Date Time | Bottle Group(s): EC B

Matrix (type, e.g., Salt, Fresh, etc): Fresh | Diss. Oxygen 9.20 ☑ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

Temp (C) 16.8 | pH 6.04 | Sample Depth 0.2 ☐ ft ☑ m | Sp. Conductance (umho/cm) 25.1

☐dd ☐dms Salinity (ppt) 0.01 | Comments

Field/WIN ID → G2TLHR0039

Location ↓

South Mosquito Creek @ Power Line

Latitude ☐dd ☐dms Longitude

☐ Comp ☑ Grab | Collection (comp begin or grab) Date 03/26/2019 Time 1215 | Eastern / Central | Composite end Date Time | Bottle Group(s): A

Matrix (type, e.g., Salt, Fresh, etc): Fresh | Diss. Oxygen 9.15 ☑ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

Temp (C) 18.0 | pH 7.44 | Sample Depth 0.3 ☐ ft ☑ m | Sp. Conductance (umho/cm) 53.9

☐dd ☐dms Salinity (ppt) 0.02 | Comments

Field/WIN ID → G2TLHR0039

Location ↓

South Mosquito Creek @ Power Line

Latitude ☐dd ☐dms Longitude

☐ Comp ☑ Grab | Collection (comp begin or grab) Date 03/26/2019 Time 1230 | Eastern / Central | Composite end Date Time | Bottle Group(s): EC B

Matrix (type, e.g., Salt, Fresh, etc): Fresh | Diss. Oxygen 9.15 ☑ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

Temp (C) 18.0 | pH 7.44 | Sample Depth 0.3 ☐ ft ☑ m | Sp. Conductance (umho/cm) 53.9

☐dd ☐dms Salinity (ppt) 0.02 | Comments

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Burtchett	03/26/2019	Hand Delivered		SR	3-26-19 / 3:29

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

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

Meter ID: 155075 RQ- Project: SMP2019

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.

Temperature (Quarterly) FT 1400 Date of Last Temperature Verification 12/18

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro-meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	J.Burtchett	3/26/19	800	21.3	757.7	8.86	8.84	99.7	—	1.03	P / F	L / F
ICV	↓	↓	810	19.6	757.7	9.17	9.10	99.1	—	—	P / F	L / F
CCV	↓	↓	1533	9.24 19.2	756.8	9.38 9.24	9.38	100.7	—	—	P / F	L / 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 (Pro DSS 0.75 to 1.50); 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.	J.Burtchett	3/26/19	802	K0621C	07/19	1000	1000	P / F	L / F
ICV	↓	↓	812	1805F81	05/20	100	102	P / F	L / F
CCV	↓	↓	1535	180621C	07/19	1000	997	P / F	L / 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	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	J.Burtchett	3/26/19	804	1804036	10/19	7.02	19.2	7.03	-21.5	P / F	L / F
Calibr.	↓	↓	806	180621D	7/19	4.00	19.4	4.00	153.6	P / F	L / F
Calibr.	↓	↓	808	180621F	01/20	10.06	19.5	10.07	190.3	P / F	L / F
ICV	↓	↓	814	180621F	01/20	10.06	19.9	10.10	193.9	P / F	L / F
CCV		↓	1557	180621D	07/19	4.00	19.8	4.12	145.6	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)

Does meter have a depth sensor that will be used to measure total depth & sample depth? (YES) / NO / NA (not surf. water project)
If **YES**, complete daily Calibr. & ICV below and list date of last quarterly depth verification: 12/18
If **NO**, what will be used? (circle one) **Secchi Disk Line / Sonar** Unique ID: _____; Date of last 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						P / F	L / F

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

COMMENTS:

Form effective August 1, 2018