



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

October 2017

Qualified Data

Yes

Location/STORET Station Name: Ocklawaha Creek @ SR 267

Date: 1/9/2018
(mm/dd/yyyy)

STORET # G1TLHR0053

WBID: 811

Latitude:

(Decimal Degrees)

County: Gradsen RQ - 2018-01-08-21

ORG ID: 21FLTLHR

Longitude:

(Decimal Degrees)

Receiving Body of Water: Lake Talquin

Field ID: G1TLHR0053

Sampling Team Members

Jon Woods
Jessie Tolbert

WQ Measurements
Sample Collection
Documentation
Preservation
Preservation Check

X
X
X
X
X

Sampling Equipment

☒ Sample Container ☐ Van Dorn ☐ Pole
☐ Carboy ☒ Syringe
☐ Dipper ☐ Other

Equipment ID

Collection Method

☒ Wading ☐ Canoe/Kayak
☐ From Shore ☐ Electric Motor
☐ Other ☐ Gasoline Motor

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

Meter ID# 118157

Matrix: Fresh / Marine / DI

Photos: Yes / No

Flow: No Flow / Intestinal / Flowing / NA

Tide: Rising / Falling / Slack / NA

Tide Times: High Low

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°)
<u>EST</u>	<u>1320</u>	<u>0.2</u>	<u>0.4</u>	<u>9.87</u>	<u>95.0</u>	<u>5.59</u>	<u>0.01</u>	<u>24</u>	<u>17</u>	<u>13.66</u>
CEN								<u>S</u>		

Biological Samples Collected:

None HA SCI RPS Algae ID LVS LVI Other

SBIO ID Numbers:

SBIO-ID: 78192 HA-ID: RPS-ID: 8896 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 ☒ H2SO4

7275010

10/2/18

☒ <2

Metals ☐ W-ICPMS ☐ W-ICP

☐ Ice ☐ HNO3

☐ <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-CI-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

☒ 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

☐ Ice

☐ W-PCL-SQ-R ☐ W-PYR-AA-R ☐ W-GLYPH ☐ W-SUC-AA-R

☐ Other

Notes:

created in SBIO2 1/26/18
Secchi visible on bottom

G1TLHR0053

WBID 811

Field ID ↑

STORET ↓

Ocklawaha Creek @
SR 267



G1TLHR0053

Signature:

Jon Woods

Date:

1/9/18

Field Parameters Entered into LIMS: 1/11/18

(Initials/Date)

Field Parameters QC in LIMS: 2/1/18

(Initials/Date)

Date Migrated to STORET:

(Initials/Date)

Field Sheets Scanned/Saved:

(Initials/Date)

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

SAMPLE ID _____ ORG ID 48034 LATITUDE _____
 COUNTY Garfield STORET # GILCHR0053 LONGITUDE _____
 DATE 1/9/18 TIME 1320 SAMPLING AGENCY _____
 SITE NAME Ocklawaha Creek @ SR 267
 FIELD ID/NAME GILCHR0053 RECEIVING BODY OF WATER Lake Talquin

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural <u>50</u> Silviculture <u>40</u> Field/Pasture _____ Agricultural _____ Residential <u>10</u> Commercial _____ Industry _____ Other (Specify) _____							Landscape Development Intensity Index (LDI) _____
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>6</u> m wide			
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u>716</u> Right Bank: <u>716</u>				Hydrologic Modification Score (per FT 3101) _____			
High Water Mark: <u>0.3</u> + <u>0.4</u> = <u>0.7</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)				Top: <u>0.2</u>	<u>13.66</u>	<u>5.59</u>	<u>9.87</u>	<u>95.0</u>	<u>17</u>	<u>0.01</u>	<u>0.4</u>
Undercut Banks / Roots				Mid:							☒ VOB
Leaf Packs or Mat				Bottom							
Aquatic Vegetation				Meter ID: <u>118157</u>							
Rock or Shell Rubble..				Water Odors Normal ☒ Petroleum ☐ Sewage ☐ Chemical ☐ Other ☐				Water Surface Oils Normal ☒ Sheen ☐ Globbs ☐ Slick ☐ Other ☐			
Sand.....				Water Sample Taken? ☒ Yes ☐ No Sample Preserved? ☒ Yes ☐ No Lot Number: <u>7275010</u> Exp: <u>10/2/18</u>				Color Tannic ☒ Green (Algae) ☐ Clear ☐ Other (Specify) _____			
Mud / Muck / Silt				Algae Sample Taken? ☐ Yes ☐ No Sample Preserved? ☐ Yes ☐ No Lot Number: _____ Exp: _____				Clarity Clear ☒ Slightly Turbid ☐ Turbid ☐ Opaque ☐			
Other				System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other(Specify) _____							
Other				ABUNDANCE							

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

AMBIENT FIELD CONDITIONS / NOTES:

SBID: GTB 1-31-18

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

SAMPLING TEAM

Woods Tolbert

SIGNATURE:

[Signature]

DATE:

1/9/18

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: <u>G1THR0053</u>					County: <u>Wadswden</u>		Date: <u>1/9/14</u>		Investigators: <u>Woods / Tolbert</u>	
					STORET Station Number: <u>G1THR0053</u>					

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	
0	1	N	N		60	1	N	N		
	2					2				
	3					3				
	4					4				
	5			92		5			72	
	6					6				
	7					7				
	8					8				
	9					9				
10	1				70	1				
	2					2				
	3					3				
	4					4				
	5			86		5			80	
	6					6				
	7					7				
	8					8				
	9					9				
20	1				80	1				
	2					2				
	3					3				
	4					4				
	5			60		5			96	
	6					6				
	7					7				
	8					8				
	9					9				
30	1				90	1				
	2					2				
	3					3				
	4					4				
	5			96		5			96	
	6					6				
	7					7				
	8					8				
	9					9				
40	1				100	1				
	2					2				
	3					3				
	4					4				
	5			96		5			92	
	6					6				
	7					7				
	8					8				
	9					9				
50	1					1				
	2					2				
	3					3				
	4					4				
	5			90		5				
	6					6				
	7					7				
	8					8				
	9					9				

Secchi depth	
Estimated?	N

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

Check accompanying data collected at same site/date.	
Algal mat sample	
Linear Veg Survey	X
Habitat Assessment	
SCI/Biorecon	
Water sample	X
RQ- 2014-01-08-21	

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

SBLO₂ entered: JTE 1-31-18

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: Ocklawaha Creek @ SR 261	Date: 1/9/18	County: Citrus	Storet Number: GTHR0053

Analyst: Woods / Tolbert Signature: Woods

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.

62-160.800, F.A.C. page 1 of 2 Revision Date: March 1, 2014

**Florida Department of Environmental Protection
Central Laboratory Submittal Form**

Customer: TLH-ROC

Requester: Chris Green

Field Report Prepared By: Woods

Project ID: SMP

Collected By: Woods/TelbertSampling Agency: 8034

Location		G1TLHR0053		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	WBID 811	Field ID	STORET	Comp	Date	Time	Date	Time	(See pg 2)
WIN/STORET	Ocklawaha Creek @ SR 267			Grab	1/9/18	1320			A
Latitude				Matrix (type, e.g., Salt, Fresh, etc)			Diss. Oxygen	Total Res. Chlorine	
							9.57		
				Temp (C)	13.66		pH	5.59	
				Salinity (ppt)	0.01		Sample Depth	0.2	17
								Sp. Conductance (umho/cm)	
Location		G1TLHR0057		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	WBID 913	Field ID	STORET	Comp	Date	Time	Date	Time	A
WIN/STORET	Big Creek @ CR 2224			Grab	1/4/18	1400			
Latitude				Matrix (type, e.g., Salt, Fresh, etc)			Diss. Oxygen	Total Res. Chlorine	
				Temp (C)	13.09		pH	6.10	
				Salinity (ppt)	0.01		Sample Depth	0.3	24
								Sp. Conductance (umho/cm)	
Location				Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID				Comp	Date	Time	Date	Time	
WIN/STORET #				Grab					
Latitude				Matrix (type, e.g., Salt, Fresh, etc)			Diss. Oxygen	Total Res. Chlorine	
				Temp (C)			pH		
				Salinity (ppt)			Sample Depth		
								Sp. Conductance (umho/cm)	
Location				Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID				Comp	Date	Time	Date	Time	
WIN/STORET #				Grab					
Latitude				Matrix (type, e.g., Salt, Fresh, etc)			Diss. Oxygen	Total Res. Chlorine	
				Temp (C)			pH		
				Salinity (ppt)			Sample Depth		
								Sp. Conductance (umho/cm)	

Relinquished By: <u>Woods</u>	Date/Time: <u>1/9/18 1512</u>	Shipping Method: <u>HD</u>	Number of Coolers Shipped: <u>1</u>	Received By: <u>[Signature]</u>	Date/Time: <u>1-9-18 15:12</u>
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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 name.

Meter ID:

116157

RQ:

Project:

GI SMP 1601

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

10/17

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.	Jon Woods	1/9/16	811	14.6		10.13	100	—	1.01	P/F	L/F
ICV	"	"	826	19.3	9.220	9.25	100	—	—	P/F	L/F
CCV	"	"	1405	19.6	9.129	9.29	101	—	—	P/F	L/F
CCV										P/F	L/F

DO Acceptance criteria from Table ± 0.3 mg/L.

Optical: DO gain range 0.85 to 1.15; DO charge N/A.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

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.	Jon Woods	1/9/16	816	171121D	12/14	1000	1000	P/F	L/F
ICV	"	"	825	2710761	9/19	100	99	P/F	L/F
CCV	"	"	1406	171031B	11/18	1000	990	P/F	L/F
CCV	"	"	1406	2710761	9/19	100	100	P/F	L/F

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.	Jon Woods	1/9/16	819	171121A	6/19	7.0	7.0	-50.6	P/F	L/F
Calibr.	"	"	820	171121C	12/18	4.0	4.0	116	P/F	L/F
Calibr.	"	"	821	171121B	6/19	10.0	10.0	-220	P/F	L/F
ICV	"	"	823	"	"	10.0	10.0	-223	P/F	L/F
CCV	"	"	1410	170926B	10/18	4.0	4.1	115	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 $+180 \pm 50$;

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 169.4, slope from 4 to 7 166.6 (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						P / F	L / F

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

COMMENTS: