



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

February 2016

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Data Qualified?
Yes / No

STORET Station Name: Coon Creek 100 meters upstream of CR 69

Date: 5/12/2016
(mm/dd/yyyy)

STORET Station ID: G2WA0005

Latitude: 30.3929

(Decimal Degrees)

WBID: 885

RQ - 2016-04-11-34

ORG ID: 21FLWQA

Longitude: -85.0625

(Decimal Degrees)

Receiving Body of Water: Apalachicola River

Field ID: G2WA0005

County: Calhoun

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Ben Ralys										
Justin Wallheiser										

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

Matrix: Fresh / Marine / DI

Meter ID#

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	11:15	13	14	6.47	71.4	5.33	101	168	35	20.23
CEN										

Biological Samples Collected: None HA SCI LVS RPS LVI Other

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	5259020	9/16/16	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO2			☐ <2
Filtered Nutrients	☒ W-PO4-F ☐ Field Filtered 0.45 µm Filter	☐ Ice			
Chlorophyll	☒ CHLSUITE-W	☐ Ice			
BOD	☐ BOD-UNIN	☐ Ice			
Physical/Aggregate (Fresh)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CH-IC / W-COLOR / W-SO4-IC / W-TDS	☐ Ice			
Physical/Aggregate (Marine)	☐ Alkalinity / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☐ MI-FW-QLDC	☐ Formalin			
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococcus ☐ QPCR	☐ Ice			
Periphyton	☐ ALGAE-ID	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R	☐ Ice			
	☐ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH	☐ Other			

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

Preservative Sticker(s) Here
(If Available)

Notes:

SBTo: 76106
Rps: 8066

Macrophyte 62 m²



G2WA0005 2016

Coon Creek 100 meters upstream of CR 69

Signature:

Date:

Field Parameters Entered into LIMS: CM 5-23-16

(Initials/Date)

Field Parameters QC in LIMS:

Date Migrated to STORET:

(Initials/Date)

Field Sheets Scanned/Saved: CM 5-23-16

(Initials/Date)

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

Waterbody: Long Creek Date: 5/12/16 County: Calhoun Storet Number: 624425
Analyst: Ben Balys Signature: _____
Comments: less than 250 meters

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												Najas guadelupensis											
Bacopa caroliniana												Nuphar luteum											
Bacopa monnieri												Orontium aquaticum										X	
Bidens mitis												Panicum hemitomon											
Boehmeria cylindrica												Panicum repens											
Centella asiatica												Panicum rigidulum											
Ceratophyllum demersum												Pistia stratioides											
Chara												Polygonum glabra											
Cicuta maculata												Polygonum hydropiperoides											
Cladium jamaicense												Polygonum hydropiperoides											
Colocasia esculenta												Polygonum punctatum											
Commelina diffusa												Pontedaria cordata											
Commelina virginica												Potamogeton illinoensis											
Crinum americanum												Rhynchospora inundata											
Diodia virginiana												Rosa palustris											
Eichhornia crassipes												Ruellia simplex											
Eleocharis (wispy viviparous)												Rumex verticillatus											
Hydrilla verticillata												Sagittaria latifolia											
Hydrocotyle												Sagittaria kurziana											
Hygrophila polysperma												Sagittaria lancifolia											
Hymenocallis												Salvinia minima											
Lachnanthes caroliniana												Samolus parviflora											
Landoltia punctata												Saururus cernuus											
Lemna												Scirpus (schenoplectus) californicus											
Limnophila sessiflora												Sparganium americanum											
Ludwigia leptocarpa												Typha											
Ludwigia palustris												Vallisneria americana											
Ludwigia peruviana												Zizania aquatica											
Ludwigia repens																							
Luziola fluitans																							
Micranthemum glomeratum												<u>Juncus Repens</u>	X							X			
Micranthemum umbrosum																							
Mikania scandens																							
Myriophyllum aquaticum																							
Myriophyllum heterophyllum																							
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																							

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: <u>Corn Creek 100meters upstream</u>					County: <u>Calhoun</u>		Date: <u>5/12/16</u>		Investigators: <u>B. Rabys Justin W.</u>		
Transect (m)					Transect (m)					STORET Station Number: <u>G2WA0005</u>	
Point 1=right 9=left					Point 1=right 9=left						
Algal Thickness Rank (N-6, X)					Algal Thickness Rank (N-6, X)						
Estimated					Estimated						
Canopy Cover					Canopy Cover						

0	1	3			60	1	N		
	2	3				2	N		
	3	N				3	N		
	4	N		96		4	N		96
	5	N				5	N		
	6	N				6	N		
	7	N				7	N		
	8	3		Mac		8	N		
	9	3				9	N		
10	1	N			70	1	N		
	2	N				2	N		
	3	N				3	N		
	4	3		96		4	N		96
	5	3				5	N		
	6	N				6	N		
	7	N				7	N		
	8	N		Mac		8	3		
	9	3				9	3		
20	1	N			80	1	N		2 spec. of Mac
	2	N				2	N		
	3	N				3	N		
	4	N		96		4	N		96
	5	N				5	N		
	6	N				6	N		
	7	N				7	N		
	8	N				8	N		
	9	N				9	N		
30	1	N			90	1	N		
	2	N				2	N		
	3	N				3	N		
	4	N		96		4	N		96
	5	N				5	N		
	6	N				6	N		
	7	N				7	N		
	8	N				8	N		
	9	N				9	N		
40	1	N			100	1	N		
	2	N				2	N		
	3	N				3	N		
	4	N		96		4	N		96
	5	N				5	N		
	6	N				6	N		
	7	N				7	N		
	8	N				8	N		
	9	N				9	N		Mac
50	1	N				1	N		
	2	N				2	N		
	3	N				3	N		
	4	N		96		4	N		
	5	N				5	N		
	6	N				6	N		
	7	N				7	N		
	8	N				8	N		
	9	N				9	N		

Secchi depth	<u>1.3</u>
Estimated?	<u>No</u>

# points ranked 4-6	<u>0</u>
total points assessed	<u>99</u>
% points ranked 4-6	<u>0</u>

Check accompanying data collected at same site/date.	
Algal mat sample	<u>X</u>
Linear Veg Survey	<u>X</u>
Habitat Assessment	
SCI/Biorecon	
Water sample	<u>X</u>
RQ-2016-04-11-34	

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

SDto: 76106
RPS: 8066

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%.

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- **2016-04-11-34**

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 **03/04/2016**

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.	Ben Ralys	5/12/16	8:24	23.08	8.57	8.57	100.0	51.2	-	P	Lab
ICV	Ben Ralys	5/12/16	8:18	23.08	8.57	8.56	100.0	51.2	-	P	Lab
CCV	Sust. Lenthase	5/12/16	4:05	25.1	8.24	8.13	98.6	51.2	-	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.	Ben Ralys	5/12/16	8:22	160330D	4/2017	1000	1,000	P	Lab
ICV	Ben Ralys	5/12/16	8:22	160330D	4/2017	1,000	1,001	P	Lab
CCV	Sust. Lenthase	5/12/16	4:06	043882	1/15/2016	101.1	99	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.	Ben Ralys	5/12/16	8:25	153035	7/2017	7.0	7.00	-11.2	P	Lab
Calibr.	Ben Ralys	5/12/16	8:27	154634	7/2017	4.0	4.00	165.0	P	Lab
Calibr.	Ben Ralys	5/12/16				10.0				
ICV	Ben Ralys	5/12/16	8:28	154634	7/2017	4.0	4.0	165.1	P	Lab
CCV	Sust. Lenthase	5/14/16	4:08	160330C	10/2017	10	9.99	-181.1	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 Laboratory Submittal Form

Customer: WQAP

Project ID: SMP

Requester: Benjamin Ralys

Collected By: Justin Wallheiser, Ben Ralys

Field Report Prepared By: Ben Ralys

Sampling Agency: FDEP

Location Coon Creek 100 meters upstream of CR 69		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 5/11/16 5/12/16 Time 11:15 am Eastern Central		Composite end Date — Time —		Bottle Group(s) (See pg 2)	
Field ID G2WA0005		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 6.47		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L) —	
STORET # G2WA0005		Temp (C) 20.23		pH 5.33		Sample Depth 0.3		Sp. Conductance (umho/cm) 35	
Latitude 30.3929		☒ dd ☐ dms		Longitude -85.0625		☒ dd ☐ dms		Salinity (ppt) 0.1	
Comments									
Location Big Cypress Branch 100 meters upstream of CR 67		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 5/11/16 5/12/16 Time 2:05 pm Eastern Central		Composite end Date — Time —		Bottle Group(s)	
Field ID G1WA0031		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 7.15		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L) —	
STORET # G1WA0031		Temp (C) 19.62		pH 7.34		Sample Depth 0.3		Sp. Conductance (umho/cm) 524	
Latitude		☒ dd ☐ dms		Longitude		☒ dd ☐ dms		Salinity (ppt) 2.5	
Comments									
Location Soapstone Branch 100 meters upstream of SR 375		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 5/11/16 5/12/16 Time — Eastern Central		Composite end Date — Time —		Bottle Group(s)	
Field ID G1WA0012		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L) —	
STORET # G1WA0012		Temp (C)		pH		Sample Depth 0.3		Sp. Conductance (umho/cm)	
Latitude 30.38625		☒ dd ☐ dms		Longitude -84.6355		☒ dd ☐ dms		Salinity (ppt)	
Comments Did not sample due to low water conditions									
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: Ben Ralys	Date/Time 5/11/16 5/12/16	Shipping Method hand delivered	Received By:	Date/Time	Relinquished By:	Date/Time	Received By: SK	Date/Time 5.12.16/3:39
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Cooler Packing Worksheet for Request: RQ-2016-04-11-34
Big Cypress Branch, Coon Creek and Soapstone Branch

Ship Cooler On: 3/28/2016
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:

No preservatives needed.

Requested Analyses:

Bottle Group: A

of Sites: 3

Container ID: P-1L

Qty: 3 Preservation: ICE

Lot # 00064196

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: 3 Preservation: ICE

Lot # 00064196

Description: Plastic Bottle 1L

Analysis

BOD-UNIN

Description

BOD, NOT nitrogen-inhibited

Container ID: BP-1L

Qty: 3 Preservation: ICE

Lot # 1158198

Description: Brown Plastic Bottle 1L

Analysis

Description

Container ID: P-500ML

Qty: 3 Preservation: ICE And H2SO4

Lot # 00063982

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: 3 Preservation: ICE-FLTR

Lot # 00064520

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: PJ-2L

Qty: 2 Preservation: Formalin

Lot # BIOWASH

Description: Plastic Jar 2 L

Analysis

MI-FW-QLDC

Description

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

Bottle Group: C# of Sites: 2

Container ID: PT-50ML

Qty: 2 Preservation: ICE

Lot # 430897

Description: Plastic Tube 50 mL

Analysis

ALGAL_ID

Description

Qualitative assessment of algal taxa present without counts

Cooler Packed By: cu Date: 3/30/16

DEP Cooler ID #(s): 2 coolers

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 <u>N/A</u>	Lot # _____
ID <u>N/A</u>	Lot # _____
ID <u>N/A</u>	Lot # _____
ID <u>N/A</u>	Lot # _____
ID <u>N/A</u>	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2016-04-11-34