



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

April 2018

Data Qualified?

Yes ☒ No ☐

WIN Station Name: Big Branch 50 meters upstream of CR 67

Date: 11/07/2018

(mm/dd/yyyy)

WIN/ Field ID: G1WA0001

WBID: 1049

Latitude: 30.3110

(Decimal Degrees)

County: Liberty

ORG ID: 21FLWQA

Longitude: -84.7651

(Decimal Degrees)

Receiving Body of Water: Ochlockonee River

RQ-2018- 11-05-47

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment				
Jason Storrs					☒	☒	☒	☒	☒	☒ Sample Container	☐ Van Dorn	☐ Pole		
Curtis Musson					☒	☒	☒	☒	☒	☐ Carboy	☐ Syringe			
					☒	☒	☒	☒	☒	☐ Dipper	☐ Other			
					☒	☒	☒	☒	☒	Depth Measured with <u>Meter Stick</u>				
					☒	☒	☒	☒	☒	Equipment ID				
										Collection Method				
										☒ Wading	☐ Canoe/Kayak			
										☐ From Shore	☐ Electric Motor			
										☐ Other	☐ Gasoline Motor			
Water Level: Dry/ Pooled/ Low / <u>Normal</u> / High / Flooded					Meter ID# <u>Big #2</u>					Matrix: <u>Fresh</u> / Marine / DI				
Photos: Yes / <u>No</u>					Flow: No Flow / Intestinal / <u>Flowing</u> / NA					Tide: Rising/ Falling/ Slack/ <u>NA</u>				
Tide Times: High <u>NA</u> Low <u>NA</u>														
Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPT)	Sp COND (umhos/cm)	Temp. (C°)				
EST	9:48	0.3	0.2	0.3" L	6.38	71.6	5.80	0.02	41	20.91				
CEN														
Biological Samples Collected: <u>None</u> HA SCI RPS Algae ID LVS LVI Other:														
SBIO ID Numbers: SBIO-ID: HA-ID: RPS-ID: Macrophyte-ID: LIMS#: <u>2039688</u>														
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	<u>805170</u>	<u>3/26/19</u>	☒ <2					
Metals	☒ W-ICPMS ☒ W-ICP				☒ Ice	☒ HNO3	<u>7341010</u>	<u>12/7/18</u>	☒ <2					
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 um 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-E8321-DI ☒ W-E8321-MS				☐ Ice									
Pesticides	☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI				☐ Ice									
	☐ W-PCL-SQ-R ☐ WE8321-MS ☐ W-CARB-AA				☐ Other									

Notes:

Kit C
FW Bact (E.Coli)
Tracers
Markers

Big Branch 50 WIN ID/Field ID
meters upstream
of CR 67

G1WA0001

Signature: Curtis Musson

Date: 4-7-2018

Enter Field Parameters, Verify Station ID In LIMS DMT: CM 11/26/18

QC Station ID, Field Parameters In LIMS DMT: CM 11-26-18

Scan/Save Field Sheets CM 11-26-18

Migrate Data to WIN: CM 11-26-18

Verify Data In WIN: CM 11-26-18

FWRI 7

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 ID: Bio #2

RQ: 2018-11-05-47

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	11/7/18	715	20.57	8.985	8.98	100.02	80.8	—	Ⓟ/F	Ⓟ/F
ICV	Curtis Musson	11/7/18	716	20.60	8.985	8.98	100.00	80.8	—	Ⓟ/F	Ⓟ/F
CCV	Jason Sperry	11/7/18	1126	21.42	8.846	8.88	100.2	81.9	—	Ⓟ/F	Ⓟ/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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	Curtis Musson	11/7/18	718	180621C	07/2019	1000	1000	Ⓟ/F	Ⓟ/F
ICV	Curtis Musson	11/7/18	719	180621C	07/2019	1000	999	Ⓟ/F	Ⓟ/F
CCV	Jason Sperry	11/7/18	1128	1805F81	05/2020	100	102	Ⓟ/F	Ⓟ/F
CCV	Jason Sperry	11/7/18	1129	DI	—	0	1	Ⓟ/F	Ⓟ/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	11/7/18	722	180621E	01/2020	7.0	7.00	0.8	Ⓟ/F	Ⓟ/F
Calibr.	Curtis Musson	11/7/18	723	180621D	07/2019	4.0	4.00	172.0	Ⓟ/F	Ⓟ/F
Calibr.	Curtis Musson	11/7/18	728	180403D	10/2019	10.0	9.98	-163.0	Ⓟ/F	Ⓟ/F
ICV	Curtis Musson	11/7/18	731	180621D	07/2019	4.0	3.98	172.0	Ⓟ/F	Ⓟ/F
CCV	Jason Sperry	11/7/18	1130	180403D	10/2019	10.0	9.98	-162.8	Ⓟ/F	Ⓟ/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	11/7/18	720	0.00	0.00	Ⓟ/F	Ⓟ/F

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

COMMENTS:

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: WAS-SECT

Requester: Curtis Musson

Field Report Prepared By: ~~Curtis Musson~~

Project ID: SMP

Collected By: Storrs / Musson

Sampling Agency: FDEP

FILED/WIN ID →				G1WA00072			
Black Creek upstream of CR158				CR158			
Latitude	30.472981	dd	dms	Longitude	-84.057057	dd	dms
Big Branch 50 meter's upstream of CR 67							
Latitude	30.3110	dd	dms	Longitude	-84.7651	dd	dms
Location							
Field ID							
WIN/STORET #							
Latitude		dd	dms	Longitude		dd	dms
Location							
Field ID							
WIN/STORET #							
Latitude		dd	dms	Longitude		dd	dms

Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Comp	Grab	Date	Time	Date	Time
☒	☐	11/7/2018	0824	☒	
Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine	
Fresh		73.0		mg/L	
Temp (C)		pH		Sp. Conductance (umho/cm)	
19.94		5.71		47	
Salinity (ppt)		Comments			
0.02					

Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Comp	Grab	Date	Time	Date	Time
☒	☐	11/7/2018		☒	
Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine	
Fresh		71.6		mg/L	
Temp (C)		pH		Sp. Conductance (umho/cm)	
20.91		5.80		41	
Salinity (ppt)		Comments			
0.02					

Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Comp	Grab	Date	Time	Date	Time
☐	☐			☐	
Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine	
				mg/L	
Temp (C)		pH		Sp. Conductance (umho/cm)	
Salinity (ppt)		Comments			

Relinquished By: <u>Curtis Musson</u>	Date/Time: <u>4/7/18 11:16</u>	Shipping Method: <u>DROP OFF</u>	Number of Coolers Shipped: <u>1</u>	Received By: <u>MM</u>	Date/Time: <u>11-7-18 @ 11:17</u>
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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-250ML-WO-THI	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	ECOLI-18QT						
Group: A	Bottle Type:	QPCR-P-500ML	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	PCR-FILTER						
Group: A	Bottle Type:	BG-500ML	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	W-E8321-DI						
	W-E8321-MS						
Group: A	Bottle Type:	P-500ML	# of Bottles: 2	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	2
	W-ICP						
	W-ICPMS						
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:	FILTER-ICE	Enter Number of Bottles Sent to Lab	2
	W-PO4-F						

Lot # 7341010
 Exp 12/7/2018
 HNO3
 Lot # SA8085170
 Exp 03/26/2019

Cooler Packing Worksheet for Request: RQ-2018-11-05-47

Big B. Black Crk.

Ship Cooler On: 10/31/2018

Customer/Project: WAS-SECT/SMP

Assigned To: REYNOLDS_T

Requester: Curtis Musson

Priority: 3

850-245-8453

2600 Blair Stone Rd

Tallahassee, FL 32399

Attn: Curtis Musson

Comments:

No preservatives needed.

Group A: Nutrients, Metals, E.coli, Tracers, Markers x2

Extra Lab QC bottle added.

Requested Analyses:

Bottle Group: A

of Sites: 2

Container ID: P-1L

Qty: 2 Preservation: ICE

Lot # 08072522

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 using a maximum of 250 mL of sample

Container ID: BP-1L

Qty: 2 Preservation: ICE

Lot # 1733955

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-250ML-WO-THI

Qty: 2 Preservation: ICE

Lot # 618245

Description: 250 ml Sterilized no tablet

Analysis

ECOLI-18QT

Description

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

Container ID: QPCR-P-500ML

Qty: 2 Preservation: ICE

Lot # 00071457

Description: 500ml Sterile Nalgene

Affix PCR Instruction Label to container

Analysis

PCR-FILTER

Description

Preparation of Samples by Filtration and held for qPCR Analysis

Container ID: BG-500ML

Qty: 2 Preservation: ICE

Lot # 00071971

Description: Brown Glass Bottle 500ML

Affix BLUE dot to container.

Analysis

W-E8321-DI

W-E8321-MS

Description

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Container ID: P-500ML

Qty: 2 Preservation: HNO3

Lot # 00071864

Description: Plastic Bottle 500 mL

Affix RED nitric acid dot to container.

Analysis

W-ICP

W-ICPMS

Description

Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects

Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

Container ID: P-500ML

Qty: 2 Preservation: ICE And H2SO4

Lot # 00071864

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: FILTER-ICE

Lot # 00066993

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Cooler Packed By: Tyler R.

Number of Coolers: 1

Date: 10/29/18

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle
- ☒ FedEx Bills, if applicable
- ☒ Plastic Bags/Zip Ties
- ☒ Acid Labels (sets of 24)

If Preservation Included:

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

PLEASE RETURN ALL COOLERS FOR RQ-2018-11-05-47