



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: Little River at Highbridge Road

Date: 10/30/2019

(mm/dd/yyyy)

WIN/ Field ID: G1WA0086

WBID: 424

Latitude: 30.5135

(Decimal Degrees)

County: Gadsden

ORG ID: 21FLWQA

Longitude: -84.52322

(Decimal Degrees)

Receiving Body of Water: Little River

RQ- 2019-09-23-30

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment				
Curtis Musson										☒ Sample Container	☐ Van Dorn	☐ Pole		
Avril Wood-McGrath										☐ 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>187 104 543</u>					Matrix: <u>fresh</u> / Marine / DI				
Photos: <u>Yes</u> / No					Flow: No Flow / Intertidal / <u>Flowing</u> / NA					Tide: Rising/ Falling/ Slack/ <u>NA</u>				
Tide Times: High Low														
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	13:52	1.3	0.3	WOB	7.98	91.2	6.94	0.04	86.1	22.0				
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#:														
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>9129100</u>	<u>5/9/20</u>	<u><2</u>					
Metals	☒ W-ICPMS ☒ W-ICP					☒ Ice ☒ HNO3	<u>9189080</u>	<u>7/8/20</u>	<u><2</u>					
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-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					☐ Ice								
	☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD													
Tracers	☒ W-E8321-DI ☒ W-E8321-MS					☒ Ice								
Pesticides	☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI					☐ Ice								
	☐ W-PCL-SQ-R ☐ W-E8321-MS ☐ W-CARB-AA													
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C					☐ Ice								
Notes:														
Signature: <u>Curtis Musson</u> Date: <u>10/31/2019</u>														
LIMS EVENT ID: <u>WAS-SECT-2019-10-30-01</u> WIN Import ID:														
Enter Field Parameters, Verify Station ID In LIMS DMT: <u>CM 12-30-19</u> QC Station ID, Field Parameters In LIMS DMT: <u>CM 12-2020</u>														
Scan/Save Field Sheets <u>CM 12-2020</u> Migrate Data to WIN: Verify Data In WIN:														
(Initials/Date) (Initials/Date) (Initials/Date)														

WIN ID / FILED ID

G1WA0086

Location

Little River at Highbridge Road

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Field Report Prepared By: Ami Wood-McGrathCollected By: Ami Wood-McGrath, Curtis MussonSampling Agency: FDEP

Location		WIN ID / FILED ID →		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID		G1WA0086		Date 10/30/19 Time 13:52		Date		(See pg 2)	
WIN/STORET #	Location	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		mg/L Total Res. Chlorine			
Latitude	Longitude	Temp (C)		pH		ft Sp. Conductance (umho/cm)		A	
		Salinity (ppt)		Comments		ft m		86.1	
Location		Collection (comp begin or grab)		Composite end		Bottle Group(s)			
Field ID		Date		Date		Date			
WIN/STORET #	Location	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		mg/L Total Res. Chlorine			
Latitude	Longitude	Temp (C)		pH		ft Sp. Conductance (umho/cm)			
		Salinity (ppt)		Comments		ft m			
Location		Collection (comp begin or grab)		Composite end		Bottle Group(s)			
Field ID		Date		Date		Date			
WIN/STORET #	Location	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		mg/L Total Res. Chlorine			
Latitude	Longitude	Temp (C)		pH		ft Sp. Conductance (umho/cm)			
		Salinity (ppt)		Comments		ft m			
Location		Collection (comp begin or grab)		Composite end		Bottle Group(s)			
Field ID		Date		Date		Date			
WIN/STORET #	Location	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		mg/L Total Res. Chlorine			
Latitude	Longitude	Temp (C)		pH		ft Sp. Conductance (umho/cm)			
		Salinity (ppt)		Comments		ft m			

Relinquished By: <u>AMW</u>	Date/Time: <u>10/30/19</u>	Shipping Method: <u>HD</u>	Number of Coolers Shipped: <u>1</u>	Received By: <u>[Signature]</u>	Date/Time: <u>10/30/19 1500</u>
-----------------------------	----------------------------	----------------------------	-------------------------------------	---------------------------------	---------------------------------

Group: A	Bottle Type: P-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab
WATER ALKALINITY TURBIDITY 18207 0111V 0150111 0150111					
	W-CL-IC				
	W-COLOR				
	W-F				
	W-SO4-IC				
	W-TDS				
	W-TSS				
Group: A	Bottle Type: BP-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab
CHLSUITE-W					
Group: A	Bottle Type: P-250ML-WO-THI	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab
ECOLI-18QT					
Group: A	Bottle Type: BG-500ML	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab
W-E8321-DI					
W-E8321-MS					
Group: A	Bottle Type: P-500ML	# of Bottles: 1	Preservative:	HNO3	Enter Number of Bottles Sent to Lab
W-ICP					
W-ICPMS					
Group: A	Bottle Type: P-500ML	# of Bottles: 1	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab
W-NH3					
W-NO2NO3					
W-S-A-TP					
W-TKN					
W-TOC					
Group: A	Bottle Type: P-125ML	# of Bottles: 1	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab
W-PO4-F					

H2SO4
 LOT# SA9129100
 EXP: 05/09/2020

Enter Number of Bottles Sent to Lab
 HNO3
 LOT# N49189939
 F-EXP: 07/08/20

2019-09-23-30

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: 103104543

RQ: 2019-10-28-11

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.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

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.	Ami wood-meters	10/30/19	6:48	19.6	758.7	9.165	9.18	99.7			P/F	L/F
ICV			7:03	20.2	758.8	9.056	9.15	100.9			P/F	L/F
CCV		10/30/19	15:10	20.2	757.4	9.056	9.14	100.6			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 μ hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Ami wood-meters	10/30/19	6:49	190618F	6/2020	1000	1000	P/F	L/F
ICV			6:51	2908CB1	8/2021	100	101.2	P/F	L/F
CCV		10/30/19	15:12	190618F	6/2020	1000	981	P/F	L/F
CCV			15:13	2908CB1	8/2021	100	102.3	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	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Ami wood-meters	10/30/19	6:53	190618B	12/2020	7.00	21.0	7.00	-54.3	P/F	L/F
Calibr.			6:55	190618A	12/2020	4.00	19.9	4.00	119.9	P/F	L/F
Calibr.			6:57	190618C	12/2020	10.05	20.1	10.02	-218.4	P/F	L/F
ICV			6:58	190618C	12/2020	10.05	19.9	10.02	-218.5	P/F	L/F
CCV		10/30/19	15:14	190618A	12/2020	4.00	20.7	4.19	107.2	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 _____, 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: _____

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 $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

Cooler Packing Worksheet for Request: RQ-2019-09-23-30

Withlacoochee Creek

Ship Cooler On: 9/20/2019

Customer/Project: WAS-SECT/SMP

Assigned To: SHAIK_A

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, Bacteria, Tracers *Little River*

Packing Notes:

No FedEx labels

No trash Bags

Requested Analyses:

Bottle Group: A

of Sites: 1

Container ID: P-1L

Qty: 1 Preservation: ICE

Lot # *00574723*

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: 1 Preservation: ICE

Lot # *1259810*

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: 1²⁰ Preservation: ICE

Lot # 10044346

Description: 250 ml Sterilized no tablet

Analysis
ECOLI-18QT

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

Container ID: BG-500ML

Qty: 1 Preservation: ICE

Lot # 0075459

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: 1 Preservation: HNO3

Lot # 0075459

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: 1 Preservation: ICE And H2SO4

Lot # 0075459

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: 1 Preservation: FILTER-ICE

Lot # 0075457

Description: Plastic Bottle 125 mL

Analysis
W-PO4-F

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

Cooler Packed By:

AB

Number of Coolers:

1

Date:

9-19-19

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-2019-09-23-30