



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: Merritt's Mill Pond 600 Meters Downstream of Jackson Blue Spring Date: 03/12/2019

WIN/ Field ID: G2WA0007 WBID: 180A Latitude: 30.787

County: Jackson ORG ID: 21FLWQA Longitude: -85.1459

Receiving Body of Water: Chipola River RQ: 2019-03-11-22

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment				
Curtis Musson		X	X				☒ Sample Container	☐ Van Dorn	☐ Pole		
Blake Spencer			X	X	X		☐ Carboy	☒ Syringe			
							☐ Dipper	☐ Other			
							Depth Measured with <u>Sonar #1</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# Biology #2		Matrix: <u>Fresh</u> Marine / DI		
Photos: <u>Yes</u> / No		Flow: No Flow / Intestinal / Flowing / <u>NA</u>		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	1127	1.7	0.3	1.0B	8.04	89.7	7.68	0.13	278	20.68	
CEN	1130	1.2	1.2		8.34	93.0	7.69	0.13	278	20.70	

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	8274050	10/1/19	☒ <2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☐ HNO3	8080070	3/21/19	☒ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 um Filter	☒ Ice	10827054		
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-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	☐ Ice			

Notes: Nutrients Metals	WIN ID / FILED ID → G2WA0007 Location Merritt's Mill Pond 600 meters downstream of Jackson Blue Sp
Signature:	Date: 3-12-2019

LIMS EVENT ID: WAS-SECT-2019-03-12-01 WIN Import ID:

Enter Field Parameters, Verify Station ID in LIMS DMT: 3/14/19 QC Station ID, Field Parameters in LIMS DMT: 4/5/19

Scan/Save Field Sheets 4/5/19 Migrate Data to WIN: 4/5/19 Verify Data in WIN: 4/5/19

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: B10#2

RQ- 2019-03-11-22

Project: B map / M map

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	3/12/19	706	19.76	9.147	7.14	100.0	57		P/F	D/F
ICV	Curtis Musson	3/12/19	708	19.80	9.129	9.12	99.9	58		P/F	D/F
CCV	Curtis Musson	3/12/19	1527	22.97	8.57	8.36	97.4	64		P/F	D/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.	Curtis Musson	3/12/19	710	180221A	03/2019	500	500	P/F	D/F
ICV	Curtis Musson	3/12/19	711	180221A	03/2019	500	500	P/F	D/F
CCV	Curtis Musson	3/12/19	1529	1805F81	05/2020	100	104	P/F	D/F
CCV								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.	Curtis Musson	3/12/19	714	180403C	10/2019	7.0	7.0	-14.7	P/F	D/F
Calibr.	Curtis Musson	3/12/19	718	180621D	7/2019	4.0	4.01	158.9	P/F	D/F
Calibr.	Curtis Musson	3/12/19	721	180621F	1/2020	10.01	10.00	-185.4	P/F	D/F
ICV	Curtis Musson	3/12/19	725	180621F	1/2020	10.01	10.00	-185.3	P/F	D/F
CCV	Curtis Musson	3/12/19	1332	180403C	10/2019	7.0	6.95	-10.4	P/F	D/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)

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	3/12/19	713	0.00	0.00	P/F	D/F

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

COMMENTS:

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

Customer: WAS-SECT

Requester: Curtis Musson

Field Report Prepared By:

Project ID: BMAP

Collected By: Curtis Musson & Blake Spencer

Sampling Agency:

Location	WIN ID / FILED ID	WIN ID / FILED ID	Longitude	Latitude	Field ID	WIN/STORE #	Location	Temp (C)	Salinity (ppt)	Temp (C)	Salinity (ppt)	Collection (comp begin or grab)	Comp Grab	Date	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen	% sat	Sp. Conductance (umho/cm)	Total Res. Chlorine (mg/L)	Composite end Date	Bottle Group(s)
Merritt's Mill Pond 600 meters downstream of Jackson Blue Sp	G2WA0007	30.787	-85.1459	30.787	30.787	30.787	Merritt's Mill Pond 600 meters downstream of Jackson Blue Sp	7.68	20.68	7.68	20.68	3/12/19	3/12/19	3/12/19	Fresh	89.7	0.3	278	278	278	A
Merritt's Mill Pond 500 meters upstream of dam	G2WA0009	30.7698	-85.1731	30.7698	30.7698	30.7698	Merritt's Mill Pond 500 meters upstream of dam	7.77	20.82	7.77	20.82	3/12/19	3/12/19	3/12/19	Fresh	89.5	0.3	283	283	283	A
Merritt's Mill Pond 500 meters upstream of dam	G2WA0009	30.755	-85.1881	30.755	30.755	30.755	Merritt's Mill Pond 500 meters upstream of dam	7.84	20.43	7.84	20.43	3/12/19	3/12/19	3/12/19	Fresh	98.6	0.3	275	275	275	A
Merritt's Mill Pond 500 meters upstream of dam	G2WA0009	30.755	-85.1881	30.755	30.755	30.755	Merritt's Mill Pond 500 meters upstream of dam	7.84	20.43	7.84	20.43	3/12/19	3/12/19	3/12/19	Fresh	98.6	0.3	275	275	275	A
Merritt's Mill Pond 500 meters upstream of dam	G2WA0009	30.755	-85.1881	30.755	30.755	30.755	Merritt's Mill Pond 500 meters upstream of dam	7.84	20.43	7.84	20.43	3/12/19	3/12/19	3/12/19	Fresh	98.6	0.3	275	275	275	A

Relinquished By: <i>[Signature]</i>	Date/Time 3/12/19	Shipping Method Hand Delivered	Number of Coolers Shipped:	Received By: <i>[Signature]</i>	Date/Time 3/12/19
--	----------------------	-----------------------------------	----------------------------	------------------------------------	----------------------

Group: A	Bottle Type:	P-1L	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	3
	ALKALINITY						
	TURBIDITY						
	W-CL-IC						
	W-COLOR						
	W-F						
	W-SO4-IC						
	W-TDS						
	W-TSS						
Group: A	Bottle Type:	BP-1L	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	3
	CHLSUITE-W						
Group: A	Bottle Type:	P-500ML	# of Bottles: 3	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	3
	W-ICP				HNO3		
	W-ICPMS				LOT# N4988870 EXP: 03/21/19		
Group: A	Bottle Type:	P-500ML	# of Bottles: 3	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	3
	W-NH3						
	W-NO2NO3				H2SO4		
	W-S-A-TP				LOT# S48274050 EXP: 10/01/2019		
	W-TKN						
	W-TOC						
Group: A	Bottle Type:	P-125ML	# of Bottles: 3	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	3
	W-PO4-F				Lot# 10022054		
Group: B	Bottle Type:	PT-50ML	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	ALGAL_ID						

Cooler Packing Worksheet for Request: RQ-2019-03-11-22

Merrit's Mill Pond BMAP

Ship Cooler On: 3/7/2019

Customer/Project: WAS-SECT/BMAP

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 x3

Group B: Algal_ID x1

Packing Notes:

No Fedex Labels

No Trash Bags

Requested Analyses:

Bottle Group: A

of Sites: 3

Container ID: P-1L

Qty: 3 Preservation: ICE

Lot # 0073369

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: 3 Preservation: ICE

Lot # 1238447

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 3

Preservation: HNO3

Lot # 00073297

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: 3

Preservation: ICE And H2SO4

Lot # 00073297

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: FILTER-ICE

Lot # 00072954

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: PT-50ML

Qty: 1

Preservation: ICE

Lot # 03775003

Description: Plastic Tube 50 mL

Analysis

ALGAL_ID

Description

Qualitative assessment of algal taxa present without counts

Cooler Packed By: MS

Number of Coolers: 1

Date: 3-5-19

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-2019-03-11-22