



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / ☒ No

WIN Station Name: Merritt's Mill Pond Mid Under Powerlines

Date: 03/12/2019 ✓

WIN/ Field ID: G2WA0008 ✓

WBID: 180A

Latitude: 30.7698

(mm/dd/yyyy)

County: Jackson

ORG ID: 21FLWQA

Longitude: -85.1731

(Decimal Degrees)

Receiving Body of Water: Chipola River

RQ- 2019-03-11-22

(Decimal Degrees)

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment			
									☒ Sample Container	☐ Van Dorn	☐ Pole	
									☐ 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		
Curtis Musson				X	X							
Blake Spencer					X	X	X					
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 / <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 (µmhos/cm)	Temp. (C°)		
EST	1102		0.3	Var	8.00	86.5	7.77	0.13	283	20.82		
CEN	1107	1.9	1.4		8.06	90.1	7.73	0.13	283	20.83		
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#: 2069062												
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	3/4/19	☒ <2			
Filtered Nutrients		☒ W-PO4-F ☒ Field Filtered 0.45 µm 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 ☐ W-E8321-MS ☐ W-CARB-AA			☐ Ice							
Phytoplankton		☐ DTY-QN-C ☐ PKD-QN-C			☐ Ice							
Notes:												
Nutrients												
Metals												
Signature: <u>Curtis Musson</u>								Date: 3/12/2019				
LIMS EVENT ID: WAS-SECT-2019-03-12-01				WIN Import ID:				WIN ID / FILED ID → G2WA0008				
Enter Field Parameters, Verify Station ID In LIMS DMT: <u>3/14/19</u>				QC Station ID, Field Parameters In LIMS DMT: <u>4/5/19</u>								
Scan/Save Field Sheets <u>4/5/19</u>				Migrate Data to WIN: <u>4/5/19</u>				Verify Data In WIN: <u>4/5/19</u>				
(Initials/Date)				(Initials/Date)				(Initials/Date)				

Location

Merritt's Mill Pond
mid under powerlines

WIN ID /
FILED ID



G2WA0008



Contains

1:1

Nitric Acid

NA-8080070

EXP: 03/21/19

See SDS

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	L/F
ICV	Curtis Musson	3/12/19	708	19.80	9.129	9.12	99.9	58		P/F	L/F
CCV	Curtis Musson	3/12/19	1527	22.97	8.57	8.36	97.4	64		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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Curtis Musson	3/12/19	710	180221A	03/2019	500	500	P/F	L/F
ICV	Curtis Musson	3/12/19	711	180221A	03/2019	500	500	P/F	L/F
CCV	Curtis Musson	3/12/19	1529	1805F81	05/2020	100	104	P/F	L/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	L/F
Calibr.	Curtis Musson	3/12/19	718	180621D	7/2019	4.0	4.01	158.9	P/F	L/F
Calibr.	Curtis Musson	3/12/19	721	180621F	1/2020	10.01	10.00	-185.4	P/F	L/F
ICV	Curtis Musson	3/12/19	725	180621F	1/2020	10.01	10.00	-185.3	P/F	L/F
CCV	Curtis Musson	3/12/19	1332	180403C	10/2019	7.0	6.95	-10.4	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)

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	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:

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Customer: WAS-SECT

Requester: Curtis Musson

Field Report Prepared By: Blake Spencer

Project ID: BMAP

Collected By: Curtis Musson + Blake Spencer

Sampling Agency: FAEP

Location	WIN ID / FILED ID → G2WA0007	WIN ID / FILED ID → G2WA0007	Collection (comp begin or grab) Date 3/12/19 Time 1102	Composite end Date	Time	Bottle Group(s) (See pg 2)
Field ID			Matrix (type, e.g., Salt, Fresh, etc) Fresh	Diss. Oxygen 89.7	Total Res. Chlorine —	A
WIN/STORE #	Location Merritt's Mill Pond 600 meters downstream of Jackson Blue Sp		Temp (C) 20.68	pH 7.68	Sample Depth 0.3	
Latitude 30.787	Longitude -85.1459		Salinity (ppt) 0.13	Sp. Conductance (umho/cm) 278		
Location	WIN ID / FILED ID → G2WA0008	WIN ID / FILED ID → G2WA0008	Collection (comp begin or grab) Date 3/12/19 Time 1102	Composite end Date	Time	Bottle Group(s)
Field ID			Matrix (type, e.g., Salt, Fresh, etc) Fresh	Diss. Oxygen 89.5	Total Res. Chlorine —	A
WIN/STORE #	Location Merritt's Mill Pond mid under powerlines		Temp (C) 20.82	pH 7.77	Sample Depth 0.3	
Latitude 30.7698	Longitude -85.1731		Salinity (ppt) 0.13	Sp. Conductance (umho/cm) 283		
Location	WIN ID / FILED ID → G2WA0009	WIN ID / FILED ID → G2WA0009	Collection (comp begin or grab) Date 3/12/19 Time 0927	Composite end Date	Time	Bottle Group(s)
Field ID			Matrix (type, e.g., Salt, Fresh, etc) Fresh	Diss. Oxygen 98.6	Total Res. Chlorine —	A
WIN/STORE #	Location Merritt's Mill Pond 500 meters upstream of dam		Temp (C) 21.43	pH 7.84	Sample Depth 0.3	
Latitude 30.755	Longitude -85.1881		Salinity (ppt) 0.13	Sp. Conductance (umho/cm) 275		
Location	WIN ID / FILED ID → G2WA0009	WIN ID / FILED ID → G2WA0009	Collection (comp begin or grab) Date 3/12/19 Time 1102	Composite end Date	Time	Bottle Group(s)
Field ID			Matrix (type, e.g., Salt, Fresh, etc) Biological	Diss. Oxygen —	Total Res. Chlorine —	B
WIN/STORE #	Location Merritt's Mill Pond 500 meters upstream of dam		Temp (C) —	pH —	Sample Depth —	
Latitude 30.755	Longitude -85.1881		Salinity (ppt) —	Sp. Conductance (umho/cm) —		

Relinquished By: <i>Blake</i>	Date/Time 3/12/19	Shipping Method Hand Delivered	Number of Coolers Shipped: 1	Received By: <i>[Signature]</i>	Date/Time 3/12/19
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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# 146888870 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# 548274050 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# 10032054		
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