Lab Page _____ of _____

RQ-2020- 03-09-04
Customer: WAS-SECT
Project ID: Merritt's Mill Pond BMAP

Collected By: Cristie Musson
Field Report Prepared By: M. A. Eckles
Sampling Agency: 21FLWQA

Merritt's Mill Pond 600 Meters Downstream Of Jackson Blue Sp

WIN ID/Field ID: G2WA0007

Comments:

Matrix: Fresh / Marine (Check one) GRAB COMPOSITE

Date	Time	DO (mg/L)	DO (%SAT)	Temp. (C°)	pH	Sample Depth (m)	Secchi Disk (m)	Total Depth (m)	Sp COND (µmhos/cm)	Salinity (PPTh)
3/11/2020	12.05 EST / CST	8.46	94.4	20.65	7.54	0.3 ~~1.7 ME~~	1.2 VOB (S)	1.2	288	0.14
	Central Lab please use top row for login purposes									
	~~12.11 ME~~ EST / CST									

Parameter Suite	Parameter Methods	Preservation	pH Check	# Bottles sent to Lab	Bottle Group
Preserved Nutrients (P-500ML)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☐ H_2SO_4*	☒ <2	1	A
	Lot # SA9203100 Exp:	07/22/2020			
Metals (P-500ML)	☒ W-ICPMS ☒ W-ICP ☐ W-HARD	☒ Ice ☐ HNO_3*	☒ <2	1	A
	Lot # NA9189080 Exp:	07/08/2020			
Filtered Nutrients (P125ML)	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice		1	A
	Filter Lot # 16803815				
	Syringe Lot # 8054813				
Chlorophyll (BP-1L)	☒ CHLSUITE-W	☒ Ice		1	A
Physical/Aggregate (Fresh) (P-1L)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice		1	A
Physical/Aggregate (Marine) (P-1L)	☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates (PJ-2L)	☐ MI-FW-QLDC	☐ Formalin			
Periphyton (PT-50ML)	☐ ALGAE-ID	☐ Ice			
Microbiology (Contract Lab Bottle)	☐ E Coli ☐ F Coli ☐ Enterococci ☐ Contract Lab	☐ Ice			
Molecular (QPCR-P-500ML)	☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-DG3 ☐ PCR-GULL2 ☐ PCR-GFD ☐ See Notes	☐ Ice			
Tracers (BG-500ML)	☐ W-E8321-DI ☐ W-E8321-MS	☐ Ice			
Pesticides (BG-500ML) (BG-1L)	☐ W-E8321-DI ☐ WE8321-MS ☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-PCL-SQ-R ☐ W-CARB-AA (5 ml of MCAA** Buffer Solution)	☐ Ice			

Name: M. A. Eckles
Signature: M. A. Eckles
Date: 3/11/2020

*2.0 ml of Preservative used unless noted otherwise.
**MCAA: Monochloroacetic acid buffer solution

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End of Day CCV Yes / (No) DO

WIN Station Name: Merritt's Mill Pond 600 Meters Downstream Of Jackson Blue Sp **Date:** 3/11/20 (mm/dd/yyyy)

WIN/ Field ID: G2WA0007 **WBID:** 180A **Latitude:** 30.787 (Decimal Degrees)

County: Jackson **ORG ID:** 21FLWQA **Longitude:** -85.1459 (Decimal Degrees)

Receiving Body of Water: Chipola River **RQ-2020-** 03-09-04

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Curtis Musson		X		X	X
Mike Eckles	X		X		

Sampling Equipment

- [X] Sample Container
- [ ] Van Dorn
- [X] Syringe
- [ ] Pole
- [ ] Dipper
- [ ] Other
- Depth Measured with Sonar #1
- Equipment ID

Collection Method

- [ ] Wading
- [ ] From Shore
- [ ] Other
- [ ] Canoe/Kayak
- [ ] Electric Motor
- [X] Gasoline Motor

Water Level: Dry/ Pooled/ Low / (Normal) / High / Flooded

Meter ID# Biology #2

Photos: Yes / (No) **Flow:** No Flow / Flowing / (NA)

Tide: Rising/ Falling/ Slack/ (NA) **Tide Times:** High NA Low NA

Biological Samples Collected: (None) HA SCI RPS Algae ID LVS LVI Other:

SBIO ID Numbers:	SBIO-ID:	HA-ID:	RPS-ID:	Macrophyte-ID:	LIMS#:

Notes: No Hood for Meter

Duplicate Sample

Time Zone: EST CEN **Time:** _____ **Field ID:** _____ (WIN ID_DUP)

WIN DMT Activity ID: _____

Blank

Time Zone: EST CEN **Time:** _____ **Field ID:** _____ (Blank Type_DDMMYYYY)

DI Source: _____ **Location:** _____

- [ ] Field Blank
- [ ] Equipment Blank
- [ ] Field Cleaned Equioment Blank

Equipment ID: _____

LIMS EVENT ID: WAS-SECT-2020-03-1401 **WIN Import ID:** _____

Enter Field Parameters, Verify Station ID In LIMS DMT: ~~MK~~ 3/26/20 (Initials/Date) **QC Station ID, Field Parameters In LIMS DMT:** CM 3/27/2020 (Initials/Date)

Scan/Save Field Sheets CM 3/27/2020 (Initials/Date) **Migrate Data to WIN:** _____ (Initials/Date) **Verify Data In WIN:** _____ (Initials/Date)

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Meter ID: Bio #2 RQ- 2020-03-09-04 Project: BMAP

Boldly "X" this box if there are qualified data on this page.

3/26/20 Meter Passed

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). DO CCV.
(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.	Curtis Musson	3/11/20	711	19.54	760	9.18	9.18	100.0	58.4	–	P/F	P/F
ICV	Curtis Musson	3/11/20	713	19.52	760	9.18	9.187	58.4	58.4	–	P/F	P/F
CCV	Ben Harden	03/11/20	1529	20.08	760	9.1	9.38	100.0 / 103.3			P/F	P/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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	Curtis Musson	3/11/20	715	191201D	12/2020	1000	1000	P/F	P/F
ICV	Curtis Musson	3/11/20	717	191120D	12/2020	1000	1002	P/F	P/F
CCV	Ben Harden	03/11/20	1505	2906681	08/2021	1000	101	P/F	P/F
CCV								P/F	L/F

Conductivity Acceptance criteria ± 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.	Curtis Musson	3/11/20	720	190618B	12/2020	7.02	20.22	7.02	-40	P/F	P/F
Calibr.	Curtis Musson	3/11/20	723	200221A	09/2021	4.00	20.15	4.00	134	P/F	P/F
Calibr.	Curtis Musson	3/11/20	726	190618C	12/2020	10.05	20.30	10.03	-208	P/F	P/F
ICV	Curtis Musson	3/11/20	729	190618C	12/2020	10.05	20.15	10.03	-208	P/F	P/F
CCV	Ben Harden	03/11/20	1509	200221A	09/2021	4.00	20.06	4.05	129.9	P/F	P/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)

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	Curtis Musson	3/11/20	728	0.00	0.00	P/F	P/F

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

COMMENTS:

Form effective August 1, 2018

Request Number: RQ-2020-03-09-04

Merritt's Mill Pond BMAP

Customer: WAS-SECT

Project ID: BMAP

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Requester: Curtis Musson

Collected By: Curtis Musson

Field Report Prepared By: Curtis Musson

Sampling Agency: FDEP

Merritt's Mill Pond 500 Meters Upstream Of Dam

WIN ID/Field ID: G2WA0009

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms

☐ Comp ☑ Grab | Collection (comp begin or grab) Date 3.11.20 Time 1015 Eastern ~~Central~~ | Composite end Date — Time — | Bottle Group(s) (See pg 2): A, B

Matrix (type, e.g., Salt, Fresh, etc): A-Fresh, B-Biological | Diss. Oxygen 129.2 ☐ mg/L ☑ % sat | Total Res. Chlorine (mg/L) —

Temp (C) 19.33 | pH 8.17 | Sample Depth 0.3 ☐ ft ☑ m | Sp. Conductance (umho/cm) 277

Salinity (ppt) 0.13 | Comments

Merritt's Mill Pond Mid Under Powerlines

WIN ID/Field ID: G2WA0008

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms

☐ Comp ☑ Grab | Collection (comp begin or grab) Date 3.11.20 Time 1130 Eastern ~~Central~~ | Composite end Date — Time — | Bottle Group(s): A

Matrix (type, e.g., Salt, Fresh, etc): Fresh | Diss. Oxygen 127.8 ☐ mg/L ☑ % sat | Total Res. Chlorine (mg/L) —

Temp (C) 20.38 | pH 7.57 | Sample Depth 0.3 ☐ ft ☑ m | Sp. Conductance (umho/cm) 284

Salinity (ppt) 0.14 | Comments

Merritt's Mill Pond 600 Meters Downstream Of Jackson Blue Sp

WIN ID/Field ID: G2WA0007

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms

☐ Comp ☑ Grab | Collection (comp begin or grab) Date 3.11.20 Time 1205 Eastern ~~Central~~ | Composite end Date — Time — | Bottle Group(s): A

Matrix (type, e.g., Salt, Fresh, etc): Fresh | Diss. Oxygen 94.4 ☐ mg/L ☑ % sat | Total Res. Chlorine (mg/L) —

Temp (C) 20.65 | pH 7.54 | Sample Depth 0.3 ☐ ft ☑ m | Sp. Conductance (umho/cm) 288

Salinity (ppt) 0.14 | Comments

Shangri La Spring Vent

WIN ID/Field ID: G2WA0022

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms

☐ Comp ☑ Grab | Collection (comp begin or grab) Date 3.11.20 Time 1220 Eastern ~~Central~~ | Composite end Date — Time — | Bottle Group(s): A

Matrix (type, e.g., Salt, Fresh, etc): Fresh | Diss. Oxygen 82.8 ☐ mg/L ☑ % sat | Total Res. Chlorine (mg/L) —

Temp (C) 20.52 | pH 7.39 | Sample Depth 0.3 ☐ ft ☑ m | Sp. Conductance (umho/cm) 322

Salinity (ppt) 0.15 | Comments

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Curtis Musson	3.11.20 / 2:55 PM	Drop off	2	KH	3.11.20 / 14:55

Group: A	Bottle Type:	P-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
	ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS						
Group: A	Bottle Type:	BP-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
	CHLSUITE-W						
Group: A	Bottle Type:	P-500ML	# of Bottles: 4	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	4
	W-ICP W-ICPMS			Lot# NA9189080 Exp 7.8.20			
Group: A	Bottle Type:	P-500ML	# of Bottles: 4	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	4
	W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC			Lot# SA9203100 Exp 7.22.2020			
Group: A	Bottle Type:	P-125ML	# of Bottles: 4	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	4
	W-PO4-F						
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-2020-03-09-04
Merritt's Mill Pond BMAP
Ship Cooler On: 3/5/2020
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 x4
Group B: Algal_ID x1

Packing Notes:
No Fedex Labels
No Trash Bags

Requested Analyses:

Bottle Group: A

# of Sites: 4

Container ID: P-1L **Qty: 4** **Preservation: ICE** **Lot #** 0007633 5

Description: Plastic Bottle 1L

Analysis	Description
ALKALINITY	Alkalinity in aqueous matrices as mg CaCO3/L
TURBIDITY	Turbidity in aqueous matrices
W-CL-IC	Chloride in aqueous matrices
W-COLOR	True Color measured at 450 nm (not valid for NPDES monitoring)
W-F	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
W-SO4-IC	Sulfate in aqueous matrices
W-TDS	Total Dissolved Solids in aqueous matrices
W-TSS	Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample

Container ID: BP-1L **Qty: 4** **Preservation: ICE** **Lot #** 2681908

Description: Brown Plastic Bottle 1L

Analysis	Description
CHLSUITE-W	Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry

Container ID: P-500ML **Qty: 4** **Preservation: HNO3** **Lot #** 0076643

Description: Plastic Bottle 500 mL Affix RED nitric acid dot to container.

Analysis	Description
W-ICP	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects
W-ICPMS	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

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Container ID: P-500ML **Qty: 4** **Preservation: ICE And H2SO4** **Lot #** 0076643

Description: Plastic Bottle 500 mL Affix YELLOW sulfuric acid dot to container.

Analysis	Description
W-NH3	Ammonia in aqueous matrices as mg N/L
W-NO2NO3	Nitrite/Nitrate in aqueous matrices as mg N/L
W-S-A-TP	Total Phosphorus in aqueous matrices as mg P/L
W-TKN	Total Kjeldahl Nitrogen in aqueous matrices
W-TOC	Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML **Qty: 4** **Preservation: FILTER-ICE** **Lot #** 0076883

Description: Plastic Bottle 125 mL

Analysis	Description
W-PO4-F	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	Description
ALGAL_ID	Qualitative assessment of algal taxa present without counts

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Cooler Packed By: [signature] Number of Coolers: 1 Date: 3-3-20

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-2020-03-09-04