



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: 09/11/2019

WIN/ Field ID: G2WA0007

WBID: 180A

Latitude: 30.787

(mm/dd/yyyy)

County: Jackson

ORG ID: 21FLWQA

Longitude: -85.1495

(Decimal Degrees)

Receiving Body of Water: Chipola River

RQ: 2019-09-09-30

(Decimal Degrees)

Sampling Team Members

Blake Spencer

Curtis Musson

Evelyn Becerra

WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
X				
	X		X	X
		X		

Sampling Equipment

☒ Sample Container ☐ Van Dorn ☐ Pole
☐ Carboy ☒ Syringe
☐ Dipper ☐ Other

Depth Measured with: Sonar #/
Equipment ID:

Collection Method

☐ Wading ☐ Canoe/Kayak
☐ From Shore ☐ Electric Motor
☐ Other ☒ Gasoline Motor

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

Meter ID# 18J104543

Matrix: Fresh / Marine / DI

Photos: Yes / No

Flow: No Flow / Intestinal / Flowing NA

Tide: Rising/ Falling/ Slack/ NA

Tide Times: High NA Low NA

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	11:28	1.6	0.3	0.8	8.87	99.9	8.00	0.13	272.8	21.2
CEN	11:30		1.1		8.54	96.0	7.71	0.13	272.9	21.0

Biological Samples Collected:

None

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	SA9010030	04/10/20	☒ <2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO3	NA909030	04/09/20	☒ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☐ Ice			
Chlorophyll	☒ CHLSUTE-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:

LIMS EVENT ID: WAS-SECT-2019-09-11-01

WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT:

QC Station ID, Field Parameters In LIMS DMT:

Scan/Save Field Sheets

Migrate Data to WIN:

Verify Data In WIN:

(Initials/Date)

(Initials/Date)

(Initials/Date)

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: 18J104543

RQ- 2019-09-09-30

Project: MMP BMAP

- 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.	Blake Spencer	9/11/19	0720	21.6	761.9	8.81	8.84	101.0	—	1-085	P / F	L / F
ICV			0728	22.1	761.9	8.73	8.82	101.0	—	—	P / F	L / F
CCV	Blake Spencer	9/11/19	1608	24.6	759.7	8.32	8.61	104.1	—	—	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.	Blake Spencer	9/11/19	0731	190619F	06/2020	1000	1000	P / F	L / F
ICV	Blake Spencer	9/11/19	0732	190614F	06/2020	1000	1000	P / F	L / F
CCV	Blake Spencer	9/11/19	1611	290828F	08/2021	1000	99.9	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	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Blake Spencer	9/11/19	0735	190616B	12/2020	7.01	22.7	7.01	-36.9	P / F	L / F
Calibr.			0740	190618A	12/2020	4.00	23.0	4.00	137.6	P / F	L / F
Calibr.			0742	190614C	12/2020	10.02	23.0	10.02	-207.3	P / F	L / F
ICV			0744	190618C	12/2020	10.02	23.0	10.01	-207.3	P / F	L / F
CCV	Blake Spencer	9/11/19	1618	190614A	12/2020	4.01	26.1	4.17	129.6	P / F	L / F
CCV										P / F	L / F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 $\pm$ 50;

mV pH 4 Range +180 $\pm$ 50;

mV pH 10 Range -180 $\pm$ 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	Blake Spencer	9/11/19	0745	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
Project ID: BMAP

Requester: Curtis Musson
Collected By: Curtis Musson

Field Report Prepared By: Curtis Musson
Sampling Agency: FDEP

Location	WIN ID / FILED ID	Collection (comp begin or grab)	Temp (C)	pH	Salinity (ppt)	Comments	Sample Depth	Diss. Oxygen	Sp. Conductance (umho/cm)	Composite end Date	Time	Bottle Group(s)
	G2WVA0009	9-11-19 9:53	28.1	7.94	0.12		0.3	145.1	250.9			A
WIN/STORET #	Merritt's Mill Pond 500 meters upstream of dam											
Latitude	dd dms											
Location	WIN ID / FILED ID	Collection (comp begin or grab)	Temp (C)	pH	Salinity (ppt)	Comments	Sample Depth	Diss. Oxygen	Sp. Conductance (umho/cm)	Composite end Date	Time	Bottle Group(s)
	G2WVA0007	9-11-19 11:28	21.2	8.00	0.13		0.3	97.9	272.8			A
WIN/STORET #	Merritt's Mill Pond 600 meters downstream of Jackson Blue Sp											
Latitude	dd dms											
Location	WIN ID / FILED ID	Collection (comp begin or grab)	Temp (C)	pH	Salinity (ppt)	Comments	Sample Depth	Diss. Oxygen	Sp. Conductance (umho/cm)	Composite end Date	Time	Bottle Group(s)
	G2WVA0008	9-11-19 10:08	26.2	7.99	0.12		0.3	134.5	257.3			A
WIN/STORET #	Merritt's Mill Pond mid under powerlines											
Latitude	dd dms											
Location	WIN ID / FILED ID	Collection (comp begin or grab)	Temp (C)	pH	Salinity (ppt)	Comments	Sample Depth	Diss. Oxygen	Sp. Conductance (umho/cm)	Composite end Date	Time	Bottle Group(s)
	G2WVA0008	9-11-19 10:08	26.2	7.99	0.12		0.3	134.5	257.3			A
WIN/STORET #	Merritt's Mill Pond mid under powerlines											
Latitude	dd dms											
Location	WIN ID / FILED ID	Collection (comp begin or grab)	Temp (C)	pH	Salinity (ppt)	Comments	Sample Depth	Diss. Oxygen	Sp. Conductance (umho/cm)	Composite end Date	Time	Bottle Group(s)
	G2WVA0008	9-11-19 10:08	26.2	7.99	0.12		0.3	134.5	257.3			A
WIN/STORET #	Merritt's Mill Pond mid under powerlines											
Latitude	dd dms											

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped	Received By:	Date/Time
Curtis Musson	9-11-19 3:52	Drop off	1		9/11/19 15:22

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Customer: WAS-SECT

Requester: Curtis Musson

Field Report Prepared By: Curtis Musson

Project ID: BMAP

Collected By: Curtis Musson

Sampling Agency: FDED

Location		WIN ID / FILED ID →		G2WAA0022		Bottle Group(s)	
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Date 9-11-14		Time 11:44	
WIN/STORET #		Temp (C) 20.7		pH 7.84		Diss. Oxygen 82.6	
Latitude		Salinity (ppt) 0.14		Sample Depth 0.3		Sp. Conductance 287.2	
Location		Matrix (type, e.g., Salt, Fresh, etc)		Date		Time	
Field ID		Temp (C)		pH		Diss. Oxygen	
WIN/STORET #		Salinity (ppt)		Sample Depth		Sp. Conductance	
Latitude		Longtitude		Comments		Bottle Group(s)	
Location		Matrix (type, e.g., Salt, Fresh, etc)		Date		Time	
Field ID		Temp (C)		pH		Diss. Oxygen	
WIN/STORET #		Salinity (ppt)		Sample Depth		Sp. Conductance	
Latitude		Longtitude		Comments		Bottle Group(s)	
Location		Matrix (type, e.g., Salt, Fresh, etc)		Date		Time	
Field ID		Temp (C)		pH		Diss. Oxygen	
WIN/STORET #		Salinity (ppt)		Sample Depth		Sp. Conductance	
Latitude		Longtitude		Comments		Bottle Group(s)	
Location		Matrix (type, e.g., Salt, Fresh, etc)		Date		Time	
Field ID		Temp (C)		pH		Diss. Oxygen	
WIN/STORET #		Salinity (ppt)		Sample Depth		Sp. Conductance	
Latitude		Longtitude		Comments		Bottle Group(s)	
Location		Matrix (type, e.g., Salt, Fresh, etc)		Date		Time	
Field ID		Temp (C)		pH		Diss. Oxygen	
WIN/STORET #		Salinity (ppt)		Sample Depth		Sp. Conductance	
Latitude		Longtitude		Comments		Bottle Group(s)	
Location		Matrix (type, e.g., Salt, Fresh, etc)		Date		Time	
Field ID		Temp (C)		pH		Diss. Oxygen	
WIN/STORET #		Salinity (ppt)		Sample Depth		Sp. Conductance	
Latitude		Longtitude		Comments		Bottle Group(s)	

Relinquished By:

Date/Time

Shipping Method

Number of Coolers Shipped:

Received By:

Date/Time

Group: A	Bottle Type:	P-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab
	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
	CHLSUITE-W					
Group: A	Bottle Type:	P-500ML	# of Bottles: 4	Preservative:	HNO3	Enter Number of Bottles Sent to Lab
	W-ICP					
	W-ICPMS					
Group: A	Bottle Type:	P-500ML	# of Bottles: 4	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: 4	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab
	W-PO4-F					
Group: B	Bottle Type:	PT-50ML	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab
	ALGAL_ID					

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

Merrit's Mill Pond BMAP

Ship Cooler On: 9/6/2019

Customer/Project: WAS-SECT/BMAP

Assigned To: KLUG_K

Requester: Curtis Musson

Priority: 3

850-245-8453
2600 Blair Stone Rd

Tallahassee, FL 32399

Attn: Curtis Musson

Comments:

Group A: Nutrients, Metals x4

Group B: Algal_ID x1

Packing Notes:

No Fedex Labels

No Trash Bags

1 - case of nitric acid/2 sets of labels

Requested Analyses:

Bottle Group: A

of Sites: 4

Container ID: P-1L

Qty: 4 Preservation: ICE

Lot # 00074723

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: 4 Preservation: ICE

Lot # 1259820

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 4 Preservation: HNO3

Lot # 00074433

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: 4 Preservation: ICE And H2SO4

Lot # 00074433

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: 4 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 # 08018009

Description: Plastic Tube 50 mL

Analysis

ALGAL_ID

Description

Qualitative assessment of algal taxa present without counts

Cooler Packed By: KR

Number of Coolers: 1

Date: 9.3.19

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	<u>Nitric Acid</u>	Exp	<u>7.8.20</u>	Lot #	<u>NA9189080</u>
ID	<u></u>	Exp	<u></u>	Lot #	<u></u>
ID	<u></u>	Exp	<u></u>	Lot #	<u></u>
ID	<u></u>	Exp	<u></u>	Lot #	<u></u>
ID	<u></u>	Exp	<u></u>	Lot #	<u></u>

PLEASE RETURN ALL COOLERS FOR RQ-2019-09-09-30