FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

March 2017

PAGE 1 OF ____

Data Qualified? Yes / (No)

Location/STORET Station Name: Mouth of East River **Date:** 10/11/2017 (mm/dd/yyyy)

STORET # G1WA0011 **WBID:** 1089 **Latitude:** 30.0893 (Decimal Degrees)

County: Wakulla **RQ -** 2017-10-09-24 **ORG ID:** 21FLWQA **Longitude:** -84.1774 (Decimal Degrees)

Receiving Body of Water: Gulf of Mexico **Field ID:** G1WA0011_10112017

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Benjamin Ralys		X	X		
Raymond Stuart	X			X	X

Sampling Equipment

- [X] Sample Container
- [ ] Carboy
- [ ] Dipper
- [ ] Van Dorn
- [X] Syringe
- [ ] Other
- [ ] Pole

Equipment ID ____

Collection Method

- [ ] Wading
- [ ] From Shore
- [ ] Other (note below)

Via Boat
- [ ] Canoe/Kayak
- [ ] Electric Motor
- [X] Gasoline Motor

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

Meter ID# 2 **Photos:** Yes / (No)

Matrix: Fresh / (Marine) / DI

Tide Falling: (Yes) / No / NA

Time Zone	Time	Sample Depth (m)	Total Depth (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (ppt)	Secchi Disk (m)	Sp COND (µmhos/cm)	Temp. (C°)
(EST)	11:40 AM	0.3	1.2	4.11	59.6	7.49	20.14	1.0	32402	28.72
CEN										

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

SBIO ID Numbers: SBIO-ID: RPS-ID: Macrophyte-ID: LIMS#: 1936098

Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	[X] W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	[X] Ice [X] H_2SO_4	SA7233030	8/21/18	[X] <2
Metals	[ ] W-ICPMS [ ] W-ICP	[ ] Ice [ ] HNO_3			[ ] <2
Filtered Nutrients	[X] W-PO4-F [X] Field Filtered 0.45 µm Filter	[X] Ice			
Chlorophyll	[X] CHLSUITE-W	[X] Ice			
Physical/Aggregate (Fresh)	[ ] Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS	[ ] Ice			
Physical/Aggregate (Marine)	[X] Alkalinity / W-F / W-TSS / TURBIDITY	[X] Ice			
Macroinvertebrates	[ ] MI-FW-QLDC	[ ] Formalin			
Periphyton	[ ] ALGAE-ID	[ ] Ice			
Microbiology	[ ] E Coli [ ] F Coli [ ] Enterococci [ ] qPCR	[ ] Ice			
Tracers	[ ] W-SUC-AA-R [ ] W-UHERB-AA [ ] W-AHERB-AA	[ ] Ice			
Pesticides	[ ] W-PSNP-TQ [ ] W-AHERB-AA [ ] W-PYR-AA-R [ ] W-PCL-SQ-R [ ] W-UHERB-AA [ ] W-GLYPH [ ] W-SUC-AA-R	[ ] Ice [ ] Other			

Notes:

Field ID → Mouth of East River Oct 11, 2017

Mouth of East River

STORET →

Signature: Ben K **Date:** 10/11/17

Field Parameters Entered into LIMS: CM 10/20/17 (Initials/Date) **Field Parameters QC in LIMS:** [illegible] 4/11/18 (Initials/Date)

Date Migrated to STORET: ____ (Initials/Date) **Field Sheets Scanned/Saved:** ____ (Initials/Date)

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: Bio 2 RQ- 2017-10-30 ~~-16~~ Cm 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.

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	10/10/17	1547	24.20	8.387	8.39	100.0	53	—	(P) / F	(L) / F
ICV	Curtis Musson	10/10/17	1548	24.14	~~8.387~~ 8.403 Cm	8.40	100.1	52	—	(P) / F	(L) / F
CCV										P / F	L / F
CCV	Ben Ralys	10/11/17	1515	24.39	8.37	8.45	101.1	52.3		(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; 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	10/10/17	1550	~~170614cm~~ 170614E	6/18	1000	1000	(P) / F	(L) / F
ICV	Curtis Musson	10/10/17	1551	170614E	6/18	1000	1000	P / F	L / F
CCV	Ben Ralys	10/11/17	1516	170614L	6/2018	50,000	49,242	(P) F	(L) 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	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Curtis Musson	10/10/17	1552	170310B	9/2018	7.0	7.00	56	(P) / F	(L) / F
Calibr.	Curtis Musson	10/10/17	1554	170614A	6/2018	4.01	4.01	52	(P) / F	(L) / F
Calibr.	Curtis Musson	10/10/17	1559	170310C	9/18	10.01	9.97	403	P / F	L / F
ICV	Curtis Musson	10/10/17	1603	170310C	9/18	10.01	9.98	53	P / F	L / F
CCV	Ben Ralys	10/11/17	1518	170614A	6/2018	4.0	4.11	210.4	(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 ± 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	10/10/17	1546	0.00	-0.001	(P) / F	(L) / F

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

COMMENTS:

Form effective October 1, 2017

Request Number: 2017-10-09-24
Dickson Bay, St. Marks River
Customer: WAS-SECT
Project ID: SMP

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Central Lab Sample Submittal Form

Requester: Curtis Musson
Collected By: Benjamin Raley / Raymond W Stuart
Field Report Prepared By: Raymond W Stuart
Sampling Agency: FDEP

Loc Apalachee Bay at Channel Marker 5 STORET ↓ G1WA0048
Fiel
Field ID → Apalachee Bay at Channel Marker 5 Oct 11, 2017 G1WA0048_10112017
ST

☐ Comp ☒ Grab
Collection (comp begin or grab) Date 10/11/17 Time 12:30pm Eastern Central
Collection (comp begin or grab) Date Time
Bottle Group(s): A

Matrix (Salt, Fresh)	Diss. Oxygen (mg/L) 6.27		
Temp (C) 28.64	pH 7.84	Sample Depts (m) 0.3	Sp. Conductance (umho/cm) 37721
Salinity (ppt) 23.84	Comments		
Latitude (Decimal Degrees) 30.04978		Longitude (Decimal Degrees) -84.18265	

Loc St. Marks River at Channel Marker 22 STORET ↓ G1WA0008
Fie
Field ID → St. Marks River at Channel Marker 22 Oct 11, 2017 G1WA0008_10112017
ST

☐ Comp ☒ Grab
Collection (comp begin or grab) Date 10/11/17 Time 1:05pm Eastern Central
Collection (comp begin or grab) Date Time
Bottle Group(s): A

Matrix (Salt, Fresh)	Diss. Oxygen (mg/L) 5.62		
Temp (C) 27.12	pH 7.64	Sample Depts (m) 0.3	Sp. Conductance (umho/cm) 13308
Salinity (ppt) 7.64	Comments Raining Hard		
Latitude (Decimal Degrees) 30.0929		Longitude (Decimal Degrees) -84.1939	

Loc St. Marks River at Channel Marker 60 STORET ↓ G1WA0055
Fiel
Field ID → St. Marks River at Channel Marker 60 Oct 11, 2017 G1WA0055_10112017
STO

☐ Comp ☒ Grab
Collection (comp begin or grab) Date 10/11/17 Time 1:20pm Eastern Central
Collection (comp begin or grab) Date Time
Bottle Group(s): A, B

Matrix (Salt, Fresh)	Diss. Oxygen (mg/L) 5.72		
Temp (C) 23.64	pH 7.62	Sample Depts (m) 0.3	Sp. Conductance (umho/cm) 642
Salinity (ppt) 0.31	Comments Raining Hard		
Latitude (Decimal Degrees) 30.1447		Longitude (Decimal Degrees) -84.2088	

Relinquished By:	Date/Time	Number of Coolers	Received By:	Date/Time
	10/11/17	3		10/11/17 2:50

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Central Lab Sample Submittal Form

Request Number: 2017-10-09-24
Dickson Bay, St. Marks River
Customer: WAS-SECT
Project ID: SMP

Requester: Curtis Musson
Collected By: _____

Field Report Prepared By: _____
Sampling Agency: FDEP

Dickson Bay South — STORET G1WA0063

Field ID → Dickson Bay South
Oct 11, 2017
G1WA0063_10112017

☐ Comp ☒ Grab	Collection (comp begin or grab) Date 10/11/17 Time 9:50am (Eastern / Central)	Collection (comp begin or grab) Date / Time	Bottle Group(s)
Matrix (Salt, Fresh)	Diss. Oxygen (mg/L) 3.59		
Temp (C) 28.60	pH 7.55	Sample Depts (m) 0.3	Sp. Conductance (umho/cm) 42494
Salinity (ppt) 27.21	Comments		
Latitude (Decimal Degrees) 29.98033		Longitude (Decimal Degrees) -84.35245	

Dickson Bay North — STORET G1WA0062

Field ID → Dickson Bay North
Oct 11, 2017
G1WA0062_10112017

☐ Comp ☒ Grab	Collection (comp begin or grab) Date 10/11/17 Time 9:30am (Eastern / Central)	Collection (comp begin or grab) Date / Time	Bottle Group(s)
Matrix (Salt, Fresh)	Diss. Oxygen (mg/L) 6.11		
Temp (C) 28.63	pH 8.72	Sample Depts (m) 0.3	Sp. Conductance (umho/cm) 42344
Salinity (ppt) 27.10	Comments		
Latitude (Decimal Degrees) 29.98847		Longitude (Decimal Degrees) -84.35098	

East River Downstream of Boggy Bayou — STORET G1WA0056

Field ID → East River Downstream of Boggy Bayou
Oct 11, 2017
G1WA0056_10112017

☐ Comp ☒ Grab	Collection (comp begin or grab) Date 10/11/17 Time 12:00pm (Eastern / Central)	Collection (comp begin or grab) Date / Time	Bottle Group(s)
Matrix (Salt, Fresh)	Diss. Oxygen (mg/L) 3.41		
Temp (C) 28.74	pH 7.27	Sample Depts (m) 0.3	Sp. Conductance (umho/cm) 32821
Salinity (ppt) 20.43	Comments		
Latitude (Decimal Degrees) 30.0972		Longitude (Decimal Degrees) -84.1752	

Relinquished By:	Date/Time	Number of Coolers	Received By:	Date/Time
			[illegible]	10/11/17 2:10

Request Number: 2017-10-09-24
Dickson Bay, St. Marks River
Customer: WAS-SECT
Project ID: SMP

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Central Lab Sample Submittal Form

Requester: Curtis Musson
Collected By:
Field Report Prepared By:
Sampling Agency: FDEP

Location: Mouth of East River
STORET: G1WA0011
Field ID: Mouth of East River
Oct 11, 2017
G1WA0011_10112017

☐ Comp ☒ Grab	Collection (comp begin or grab) Date 10/11/17 Time 11:40 am (Eastern / Central)		Collection (comp begin or grab) Date / Time	Bottle Group(s): A
Matrix (Salt, Fresh): Salt	Diss. Oxygen (mg/L): 20.14			
Temp (C): 28.72	pH: 7.49	Sample Depts (m): 0.3	Sp. Conductance (umho/cm): 32402	
Salinity (ppt): 20.14	Comments:			
Latitude (Decimal Degrees): 30.0893		Longitude (Decimal Degrees): -84.1774		

Location:
Field ID:
STORET #:

☐ Comp ☐ Grab	Collection (comp begin or grab) Date / Time (Eastern / Central)		Collection (comp begin or grab) Date / Time	Bottle Group(s)
Matrix (Salt, Fresh)	Diss. Oxygen (mg/L)			
Temp (C)	pH	Sample Depts (m)	Sp. Conductance (umho/cm)	
Salinity (ppt)	Comments			
Latitude (Decimal Degrees)		Longitude (Decimal Degrees)		

Location:
Field ID:
STORET #:

☐ Comp ☐ Grab	Collection (comp begin or grab) Date / Time (Eastern / Central)		Collection (comp begin or grab) Date / Time	Bottle Group(s)
Matrix (Salt, Fresh)	Diss. Oxygen (mg/L)			
Temp (C)	pH	Sample Depts (m)	Sp. Conductance (umho/cm)	
Salinity (ppt)	Comments			
Latitude (Decimal Degrees)		Longitude (Decimal Degrees)		

Relinquished By:	Date/Time	Number of Coolers	Received By:	Date/Time
			DD	10/11/17 2:50

Group: A	Bottle Type: P-1L	# of Bottles: 7	Preservative: ICE	Enter Number of Bottles Sent to Lab	7	
	ALKALINITY TURBIDITY W-F W-TSS					
Group: A	Bottle Type: BP-1L	# of Bottles: 7	Preservative: ICE	Enter Number of Bottles Sent to Lab	7	
	CHLSUITE-W					
Group: A	Bottle Type: P-500ML	# of Bottles: 7	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	7	
	W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC					
Group: A	Bottle Type: P-125ML	# of Bottles: 7	Preservative: ICE-FLTR	Enter Number of Bottles Sent to Lab	7	
	W-PO4-F					
Group: B	Bottle Type: P-250ML-WO-THI	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	1	
	ENT-24-QT					
Group: B	Bottle Type: P-120ML-OC	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	1	
	FCOLI-MF					

Group: A	Bottle Type: P-1L	# of Bottles: 7	Preservative: ICE	Enter Number of Bottles Sent to Lab 7		
	ALKALINITY TURBIDITY W-F W-TSS					
Group: A	Bottle Type: BP-1L	# of Bottles: 7	Preservative: ICE	Enter Number of Bottles Sent to Lab 7		
	CHLSUITE-W					
Group: A	Bottle Type: P-500ML	# of Bottles: 7	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab 7		
	W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC					
Group: A	Bottle Type: P-125ML	# of Bottles: 7	Preservative: ICE-FLTR	Enter Number of Bottles Sent to Lab 7		
	W-PO4-F					
Group: B	Bottle Type: P-250ML-WO-THI	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab 1		
	ENT-24-QT					
Group: B	Bottle Type: P-120ML-OC	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab 1		
	FCOLI-MF					

Cooler Packing Worksheet for Request: RQ-2017-10-09-24
Dickson, St Marks
Ship Cooler On: 10/3/2017
Customer/Project: WAS-SECT/SMP

Assigned To: REAVES_S
Requester: Curtis Musson
Priority: 3

850-245-8453
2600 Blair Stone Rd

Tallahassee, FL 32399

Attn: Curtis Musson

Comments:
Group A: Marine Kit, No Metals
Group B: Microbology

1 ca. H2SO4

Requested Analyses:

Bottle Group: A — # of Sites: 7

Container ID: P-1L **Qty: 7** **Preservation: ICE** **Lot #** 0006759 1-3 0006 9122-4

Description: Plastic Bottle 1L

Analysis	Description
ALKALINITY	Alkalinity in aqueous matrices as mg CaCO3/L
TURBIDITY	Turbidity in aqueous matrices
W-F	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
W-TSS	Total Suspended Solids in aqueous matrices

Container ID: BP-1L **Qty: 7** **Preservation: ICE** **Lot #** 1199138

Description: Brown Plastic Bottle 1L

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

Container ID: P-500ML **Qty: 7** **Preservation: ICE And H2SO4** **Lot #** 00068654

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: 7** **Preservation: ICE-FLTR** **Lot #** 0006834

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: P-250ML-WO-THI **Qty: 1** **Preservation: ICE** **Lot #** ~~0006834~~ L16292

Description:

Analysis	Description
ENT-24-QT	Enterococci by Enterolert Quanti-Tray method - non-chlorinated water systems

Container ID: P-120ML-OC **Qty: 1** **Preservation: ICE** **Lot #** 6K20-TN

Description:

Analysis	Description
FCOLI-MF	Fecal coliforms by membrane filter method - non-chlorinated water systems

Cooler Packed By: SR Number of Coolers: 3 Date: 10-3-17

Kit must also include:
- ✓ Field Sheets
- ✓ Temperature Control Bottle
- ✓ FedEx Bills, if applicable
- ✓ Plastic Bags
- ✓ Zip Ties

If Preservation Included:

ID	Sulfuric Acid	Exp	8-21-18	Lot #	SA 7233030
ID		Exp		Lot #	
ID		Exp		Lot #	
ID		Exp		Lot #	
ID		Exp		Lot #	

PLEASE RETURN ALL COOLERS FOR RQ-2017-10-09-24