



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

October 2017

Qualified Data

No

Location/STORET Station Name: Mouth of East River

Date: 12/19/17
(mm/dd/yyyy)

STORET # G1WA0011

WBID: 1089

Latitude: 30.0893

County: Wakulla

RQ - 2017-12-04-40

ORG ID: 21FLWQA

Longitude: -84.1774

(Decimal Degrees)

Receiving Body of Water: Gulf of Mexico

Field ID: G1WA0011

(Decimal Degrees)

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment			
Ben Ralys					X				☒ Sample Container	☐ Van Dorn	☐ Pole	
Ray Stuart				X		X	X	X	☐ Carboy	☒ Syringe		
									☐ Dipper	☐ Other		
									Equipment ID			
									Collection Method			
									☐ Wading	☐ Canoe/Kayak		
									☐ From Shore	☐ Electric Motor		
									☐ Other	☒ Gasoline Motor		
Water Level: Dry / <u>Low</u> / Normal / Above Normal / Flooded				Meter ID# Biology #2				Matrix: Fresh / <u>Marine</u> / DI				
Photos: Yes / <u>No</u>				Flow: No Flow / Intestinal / Flowing / <u>NA</u>				Tide: Rising / Falling / Slack / <u>NA</u>				
Tide Times: High 3:46pm Low 9:52am												
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	10:28 am	0.3	0.5	8.83	102.2	8.16	17.54	VOB	27522	17.38		
CEN												

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	SA 7233030	8/2/18	☒ <2				
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <2				
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice							
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-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-HF183 ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-GFD	☐ Ice							
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA ☐ W-AHERB-AA	☐ Ice							
Pesticides	☐ W-PSNP-TQ ☐ W-UHERB-AA ☐ W-AHERB-AA ☐ W-PCL-SQ-R ☐ W-PYR-AA-R ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Ice ☐ Other							

Notes:

Kit-B
Bacteria

STORET / Field ID →
Mouth of
East River
Dec 19, 2017



G1WA0011

Place Label Here
(If Available)

Signature:

Date:

Field Parameters Entered into LIMS:

Field Parameters QC in LIMS:

Date Migrated to STORET:

Field Sheets Scanned/Saved:

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 name.

Meter ID: Biology #2

RQ: 2017-12-04-40

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.	Ben Ralys	12/19/17	7:25	20.70	8.96	8.97	100.0 68.6	—	—	P/F	L/F
ICV	Ben Ralys	12/19/17	7:27	20.72	8.96	8.96	100.0	68.6	—	P/F	L/F
CCV	Ben Ralys	12/15/17	3:20	22.08	8.74	8.74	100.0	65.5	—	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; 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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Ben Ralys	12/19/17	7:29	171005D	10/2018	1,000	1,000	P/F	L/F
ICV	Ben Ralys	12/19/17	7:31	171005D	10/2018	1,000	1,000	P/F	L/F
CCV	Ben Ralys	12/19/17	3:21	170614C	6/2018	50,000	49,317	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.	Ben Ralys	12/19/17	7:33	170614B	12/2018	7.0	6.93	26.9	P/F	L/F
Calibr.	Ben Ralys	12/19/17	7:35	171005A	10/2018	4.0	3.98	193.3	P/F	L/F
Calibr.	Ben Ralys	12/19/17	7:38	171005C	4/2019	10.0	9.92	-129.3	P/F	L/F
ICV	Ben Ralys	12/19/17	7:39	171005C	4/2019	10.0	9.88	-129.1	P/F	L/F
CCV	Ben Ralys	12/19/17	3:24	171005A	10/2018	4.0	3.94	193.9	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						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:

Relinquished By: 	Date/Time 2:37 12/19/17	Shipping Method hand delivered	Number of Coolers Shipped: 2	Received By: 	Date/Time 12/19/17 2:38
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**Florida Department of Environmental Protection
Central Laboratory Submittal Form**

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Collected By: B. R. S. HartField Report Prepared By: Raymond W. HartSampling Agency: WABO FDEP

Location		STORET / Field ID →	Latitude	Longitude	Comp	Grab	Collection (comp begin or grab)	Time	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen	Total Res. Chlorine (mg/L)	% sat	Sp. Conductance (umho/cm)	ft	m	Eastern	Central	Composite end	Date	Time	Bottle Group(s) (See pg 2)
Location		Dickson Bay North	Dec 19, 2017		☒ dd	☐ dms															
Field ID		Dickson Bay North																			
STORET #																					
Latitude																					
Longitude																					
Location		Dickson Bay South	Dec 19, 2017		☒ dd	☐ dms															
Field ID		Dickson Bay South																			
STORET #																					
Latitude																					
Longitude																					
Location		St. Marks River at Channel Marker 60	Dec 19, 2017		☒ dd	☐ dms															
Field ID		St. Marks River at Channel Marker 60																			
STORET #																					
Latitude		30.1447																			
Longitude		-84.2088																			
Comp																					
Grab																					
Collection (comp begin or grab)																					
Time																					
Matrix (type, e.g., Salt, Fresh, etc)																					
Diss. Oxygen																					
Total Res. Chlorine (mg/L)																					
% sat																					
Sp. Conductance (umho/cm)																					
ft																					
m																					
Eastern																					
Central																					
Composite end																					
Date																					
Time																					
Bottle Group(s)																					
Location		St. Marks River at Channel Marker 22	Dec 13, 2017		☒ dd	☐ dms															
Field ID		St. Marks River at Channel Marker 22																			
STORET #																					
Latitude		30.0929																			
Longitude		-84.1939																			
Comp																					
Grab																					
Collection (comp begin or grab)																					
Time																					
Matrix (type, e.g., Salt, Fresh, etc)																					
Diss. Oxygen																					
Total Res. Chlorine (mg/L)																					
% sat																					
Sp. Conductance (umho/cm)																					
ft																					
m																					
Eastern																					
Central																					
Composite end																					
Date																					
Time																					
Bottle Group(s)																					

Relinquished By: <u>[Signature]</u>	Date/Time: <u>12/19/17 2:37 PM</u>	Shipping Method: <u>Hand Delivered</u>	Number of Coolers Shipped: <u>2</u>	Received By: <u>[Signature]</u>	Date/Time: <u>12/19/17 2:38</u>
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Group: A	Bottle Type: ALKALINITY TURBIDITY W-F W-TSS	P-1L	# of Bottles: 7	Preservative:	ICE	Enter Number of Bottles Sent to Lab	5
Group: A	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 7	Preservative:	ICE	Enter Number of Bottles Sent to Lab	5
Group: A	Bottle Type: W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC	P-500ML	# of Bottles: 7	Preservative: ICE And H2SO4		Enter Number of Bottles Sent to Lab	5
Group: A	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 7	Preservative: FILTER-ICE		Enter Number of Bottles Sent to Lab	5
Group: B	Bottle Type: ENT-24-QT	P-250ML-WO-THI	# of Bottles: 7	Preservative:	ICE	Enter Number of Bottles Sent to Lab	5
Group: B	Bottle Type: FCOLI-MF	P-120ML-OC	# of Bottles: 7	Preservative:	ICE	Enter Number of Bottles Sent to Lab	5

W-S-A-TP

W-TKN

W-TOC

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: 7 Preservation: FILTER-ICE

Lot # 55068595

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: 7

Container ID: P-250ML-WO-THI

Qty: 7 Preservation: ICE

Lot # 617142

Description:

Analysis

ENT-24-QT

Description

Enterococci by Enterolert Quanti-Tray method - non-chlorinated water systems

Container ID: P-120ML-OC

Qty: 7 Preservation: ICE

Lot # 6F21-TN

Description:

Analysis

FCOLI-MF

Description

Fecal coliforms by membrane filter method - non-chlorinated water systems

Cooler Packed By: AB

Number of Coolers: 3

Date: 11-28-17

☒ Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle
- ☒ FedEx Bills, if applicable
- ☒ Plastic Bags
- ☐ Zip Ties

If Preservation Included:

ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2017-12-04-40

Cooler Packing Worksheet for Request: RQ-2017-12-04-40

Dickson Bay, St. Marks

Ship Cooler On: 12/1/2017

Customer/Project: WAS-SECT/SMP

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: Marine Kit

Group B: Bacteria

Requested Analyses:

Bottle Group: A

of Sites: 7

Container ID: P-1L

Qty: 7 Preservation: ICE

Lot # 00069122

Description: Plastic Bottle 1L

Analysis

ALKALINITY

TURBIDITY

W-F

W-TSS

Description

Alkalinity in aqueous matrices as mg CaCO₃/L

Turbidity in aqueous matrices

Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)

Total Suspended Solids in aqueous matrices

Container ID: BP-1L

Qty: 7 Preservation: ICE

Lot # 1208913

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 7 Preservation: ICE And H₂SO₄

Lot # 00068155

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis

W-NH₃

W-NO₂NO₃

Description

Ammonia in aqueous matrices as mg N/L

Nitrite/Nitrate in aqueous matrices as mg N/L