



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2018

Data Qualified?

Yes / No

WIN Station Name: Ochlockonee River Downstream of Tower Rd

Date: 1/17/18 1-18-18

WIN/ Field ID: G1WA0070

WBID: 1297E

Latitude: 30.52646

County: Leon

ORG ID: 21FLWQA

Longitude: -84.38821

Receiving Body of Water: Gulf of Mexico

RQ-2018- 01-15-28

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Curtis Musson						X	X			
Ben Ralys							X	X	X	X

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☒ Syringe	
☐ Dipper	☐ Other	
Depth Measured with <u>Sonar</u>		
Equipment ID		

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

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

Meter ID# Biology #2

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 (umhos/cm)	Temp. (C°)
EST	1:08	2.3	0.3	0.9	11.96	99.4	7.33	0.06	123	7.36
CEN	1:11		1.8		12.00	99.8	7.32	0.06	123	7.35

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			☐ <2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO3	7261120	7/16/18	A <2
Filtered Nutrients	☐ W-PO4-F ☐ Field Filtered 0.45 um 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-CARB-AA ☐ W-PCL-SQ-R ☐ W-PYR-AA-R ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Ice ☐ Other			

Notes:

Kit-G, Bacteria CM
Metals, ALIC

WIN ID / FIELD ID

Ochlockonee River
Downstream of Tower Rd



Signature: [Signature]

Date: 1-18-18

Enter Field Parameters, Verify Station ID In LIMS DMT: 2/21/18

QC Station ID, Field Parameters In LIMS DMT: CM 4-9-18

Scan/Save Field Sheets CM 4-9-18

Migrate Data to WIN:

Verify Data In WIN:

Blair, Freeman, Ingers, Quincy, Ochlocknee R.

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: Dp#2 RQ: 2018-01-15-28 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	1-18-18	708	17.25	9.625	9.62	100.0	49		P/F	L/F
ICV	Curtis Musson	1-18-18	709	17.24	9.625	9.63	100.1	49		P/F	L/F
CCV	Curtis Musson	1-18-18	1516	15.7	9.934	10.13	106.9	48		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	1-18-18	710	171005D	1-12-18	1000	1000	P/F	L/F
ICV	Curtis Musson	1-18-18	711	171005D	10/20/18	999 1000	999	P/F	L/F
CCV	Curtis Musson	1-18-18	1514	171005E	10/20/18	100	100	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	1-18-18	714	170614B	12/20/18	7.0	7.00	10.5	P/F	L/F
Calibr.	Curtis Musson	1-18-18	715	171005A	10/20/18	4.01	4.01	123	P/F	L/F
Calibr.	Curtis Musson	1-18-18	717	171005C	04/20/19	10.01	9.99	148	P/F	L/F
ICV	Curtis Musson	1-18-18	718	171005C	04/20/19	10.01	9.99	148	P/F	L/F
CCV	Curtis Musson	1-18-18	1521	171005A	10/20/18	4.01	4.06	171	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 CA	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value meters	Pass / Fail	Lab / Field
Pressure mode in air	Curtis Musson	1-18-18	712	0.000	0.000	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:

Black, Freeman, Ochlockonee, Quincy, Juniper

Requester: Curtis Musson

Requester: Curtis Musson

Collected By: Curtis Musson / Ben Ralls

Field Report Prepared By:

Sampling Agency:

Curtis Musson

FDFF

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Curtis Musson	1-18-18 / 2:33	Drop off	5		1-18-18 / 2:54

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Collected By:

Field Report Prepared By:

Sampling Agency:

Quincy Creek
upstream of
SR 268

WIN ID / Field ID



G1WA00051

Latitude ☐ dd ☐ dms Longitude ☐ dd ☐ dmsQuincy Creek
upstream of
SR 65

WIN ID / Field ID



G1WA00049

Latitude ☐ dd ☐ dms Longitude ☐ dd ☐ dmsQuincy Creek
100 meters
upstream of
Ralph Strong Rd.

WIN ID / FIELD ID



G1WA00018

Latitude ☐ dd ☐ dms Longitude ☐ dd ☐ dms

Location	Field ID	WIN/STORET #	Latitude	Longitude	Temp (C)	pH	Salinity (ppt)	Matrix (type, e.g., Salt, Fresh, etc)	Comp Grab	Collection Date	Time	Diss. Oxygen	Sample Depth	Sp. Conductance (umho/cm)	Total Res. Chlorine (mg/L)	% sat	Composite end Date	Time	Bottle Group(s)
Quincy Creek upstream of SR 268					3.73	6.98	0.03	Fresh	☒	1-18-18	10:00	103.1	0.2	70					A+B
Quincy Creek upstream of SR 65					4.74	7.12	0.03	Fresh	☒	1-18-18	10:55	102.3	0.15	63					C+D
Quincy Creek 100 meters upstream of Ralph Strong Rd.					4.55	7.25	0.03	Fresh	☒	1-18-18	11:20	104.8	0.25	66					A+B
									☒										C+D

Relinquished By: <u>Curtis Musson</u>	Date/Time: <u>1-18-18 / 2:53</u>	Shipping Method: <u>Drop off</u>	Number of Coolers Shipped: <u>5</u>	Received By: <u>SP</u>	Date/Time: <u>1-18-18 / 2:54</u>
---------------------------------------	----------------------------------	----------------------------------	-------------------------------------	------------------------	----------------------------------

**Florida Department of Environmental Protection
Central Laboratory Submittal Form**

Black, Freeman, Ochlockonee, Quincy, Juniper

Customer: WAS-SECT

Requester: Curtis Musson

Field Report Prepared By:

Curtis Musson

Project ID: SMP

Collected By:

Curtis Musson, Ben Davis

Sampling Agency:

FDEP

Location WIN ID / Field ID Black Creek upstream of Bloxxham Cutoff		Collection (comp begin or grab) Date 1-18-18 Time 805		Composite end Date / Time /		Bottle Group(s) (See pg 2) A,C	
Field ID 31WA0023		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 94.7 % sat		Total Res. Chlorine —	
WIN/STORET #		Temp (C) 4.27		pH 4.87		Sample Depth 0.2	
Latitude dd dms		Longitude dd dms		Salinity (ppt) 0.02		Sp. Conductance (umho/cm) 36	
Location WIN ID / Field ID Freeman Creek upstream of SR 267 (Bloxxham Cutoff)		Collection (comp begin or grab) Date 1-18-18 Time 840		Composite end Date / Time /		Bottle Group(s) A,B,C	
Field ID		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 91.2		Total Res. Chlorine —	
WIN/STORET #		Temp (C) 5.19		pH 4.85		Sample Depth 0.1	
Latitude dd dms		Longitude dd dms		Salinity (ppt) 0.01		Sp. Conductance (umho/cm) 27	
Location WIN ID / Field ID Juniper Creek Upstream of Juniper Creek Rd.		Collection (comp begin or grab) Date 1-18-18 Time 922		Composite end Date / Time /		Bottle Group(s) C,D	
Field ID		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 87.8		Total Res. Chlorine —	
WIN/STORET #		Temp (C) 3.77		pH 6.08		Sample Depth 0.3	
Latitude dd dms		Longitude dd dms		Salinity (ppt) 0.04		Sp. Conductance (umho/cm) 86	
Location WIN ID / Field ID Quincy Creek upstream of SR 267		Collection (comp begin or grab) Date 1-18-18 Time 10:30		Composite end Date / Time /		Bottle Group(s) A,B C,D	
Field ID		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 101.6		Total Res. Chlorine —	
WIN/STORET #		Temp (C) 5.18		pH 7.08		Sample Depth 0.2	
Latitude dd dms		Longitude dd dms		Salinity (ppt) 0.03		Sp. Conductance (umho/cm) 57	

Relinquished By: Curtis Musson	Date/Time 1-18-18	Shipping Method Drop off	Number of Coolers Shipped: 5	Received By: SPR	Date/Time 1-18-18/254
-----------------------------------	----------------------	-----------------------------	---------------------------------	---------------------	--------------------------

Cooler Packing Worksheet for Request: RQ-2018-01-15-28

Black, Freeman, Ochlockonee, Quincy, Juniper

Ship Cooler On: 1/12/2018

Customer/Project: WAS-SECT/SMP

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: Freshwater Nutrient

Group B: Metals

Group C: E. coli

Group D: Wastewater Tracers (AHERB Short List), & PCR

Group E: Alkalinity 1-liter bottle

1 - case sulfuric acid

1 - case nitric acid

No FedEx labels

No Trash Bag

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-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

Container ID: BP-1L

Qty: 7 Preservation: ICE

Lot # 1214297

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

1741

Container ID: QPCR-P-250ML

Qty: 10 Preservation: ICE

Lot # 00069545

Description: 250ml Sterile Nalgene (2)

Analysis

PCR-FILTER

PCR-HF183

Description

Preparation of Samples by Filtration and held for qPCR Analysis

Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction

Container ID: BG-1L

Qty: 5 Preservation: ICE

Lot # 00069604

Description: Brown Glass Bottle 1L

Affix BLUE dot to container.

Analysis

W-AHERB-AA

W-SUC-AA-R

W-UHB-AA-R

Description

Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS

Analysis of sucralose in water matrices by HPLC/MS/MS

Urea herbicides and other chemicals in water matrices by HPLC/MS/MS

Cooler Packed By: KK Number of Coolers: 4 Date: 1/11/18

Kit must also include:

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

If Preservation Included:

ID	<u>Nitric Acid</u>	Exp	<u>12/7/18</u>	Lot #	<u>NA 7341010</u>
ID	<u>Sulfuric Acid</u>	Exp	<u>12/7/18</u>	Lot #	<u>SA 7341020</u>
ID		Exp		Lot #	
ID		Exp		Lot #	
ID		Exp		Lot #	

PLEASE RETURN ALL COOLERS FOR RQ-2018-01-15-28

Container ID: QPCR-P-250ML

Qty: 10 Preservation: ICE

Lot # 00069545

Description: 250ml Sterile Nalgene (2)

Analysis

PCR-FILTER

PCR-HF183

Description

Preparation of Samples by Filtration and held for qPCR Analysis

Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction

Container ID: BG-1L

Qty: 5 Preservation: ICE

Lot # 00069604

Description: Brown Glass Bottle 1L

Affix BLUE dot to container.

Analysis

W-AHERB-AA

W-SUC-AA-R

W-UHB-AA-R

Description

Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS

Analysis of sucralose in water matrices by HPLC/MS/MS

Urea herbicides and other chemicals in water matrices by HPLC/MS/MS

Cooler Packed By: KK

Number of Coolers: 4

Date: 1/11/18

Kit must also include:

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

If Preservation Included:

ID <u>Nitric Acid</u>	Exp <u>12/7/18</u>	Lot # <u>NA 7341010</u>
ID <u>Sulfuric Acid</u>	Exp <u>12/7/18</u>	Lot # <u>SA 7341020</u>
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2018-01-15-28

Cooler Packing Worksheet for Request: RQ-2018-01-15-28

Black, Freeman, Ochlockonee, Quincy, Juniper

Ship Cooler On: 1/12/2018

Customer/Project: WAS-SECT/SMP

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: Freshwater Nutrient

Group B: Metals

Group C: E. coli

Group D: Wastewater Tracers (AHERB Short List), & PCR

Group E: Alkalinity 1-liter bottle

1 - case sulfuric acid

1 - case nitric acid

No FedEx labels

No Trash Bag

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-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

Container ID: BP-1L

Qty: 7 Preservation: ICE

Lot # 1214297

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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