



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

April 2018

Data Qualified?

Yes / No

PH

WIN Station Name: Black Creek upstream of CR158

Date: 04/18/2018

WIN/ Field ID: G1WA0072

WBID: 628

Latitude: 30.472981

(mm/dd/yyyy)

County: Leon

ORG ID: 21FLWQA

Longitude: -84.057057

(Decimal Degrees)

Receiving Body of Water: Wacissa Springs

RQ-2018- 04-16-18

(Decimal Degrees)

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment				
Curtis Musson							X				☒ Sample Container	☐ Van Dorn	☐ Pole		
Ray Stuart						X		X	X	X	☐ Carboy	☒ Syringe			
											☐ Dipper	☐ Other			
											Depth Measured with <u>meter stick</u>				
											Equipment ID				
											Collection Method				
											☒ Wading	☐ Canoe/Kayak			
											☐ From Shore	☐ Electric Motor			
											☐ Other	☐ Gasoline Motor			
Water Level: Dry/ Pooled/ Low / <u>Normal</u> / High / Flooded						Meter ID# Bio #2			Matrix: <u>Fresh</u> Marine / DI						
Photos: Yes <u>No</u> Flow: No Flow / Intestinal / <u>Flowing</u> / NA						Tide: Rising/ Falling/ Slack/ <u>NA</u>			Tide Times: High Low						
Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPTH)	Sp COND (µmhos/cm)	Temp. (C°)					
EST	9:15	0.3	0.15	NOB	8.51	83.7	4.92	0.01	31	14.64					
CEN															
Biological Samples Collected: <u>None</u> 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	08/21/2018	☒ <2						
Metals	☒ W-ICPMS ☒ W-ICP					☒ Ice ☐ HNO3	NA 7341010	12/07/2018	☒ -						
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter					☒ Ice	10827054								
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-E8321-DI ☒ W-E8321-MS					☒ Ice									
Pesticides	☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI					☐ Ice									
	☐ W-PCL-SQ-R ☐ WE8321-MS ☐ W-CARB-AA					☐ Other									

Notes:
Kit-C
FW Bact
Tracers
Markers

Black Creek
upstream of CR158

FILED/WIN ID

G1WA0072

Signature:

Date:

4/18/18

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)

(Initials/Date)

Hardwood, Canal, Chicken, Black, Wang

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: B10#2

RQ: 2018-04-16-18

Project: Smp

pH

- 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 Mussen	4/18/18	7:09	21.25	8.863	8.87	100.0	73	-	P/F	L/F
ICV	Curtis Mussen	4/18/18	7:10	21.25	8.863	8.87	100.0	73	-	P/F	L/F
CCV	Curtis Mussen	4/18/18	13:19	26.02	8.114	8.06	99.3	77	-	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.	Curtis Mussen	4/18/18	7:12	17100SD	10/2018	1000	1000	P/F	L/F
ICV	Curtis Mussen	4/18/18	7:13	17100SD	10/2018	1000	1001	P/F	L/F
CCV	Curtis Mussen	4/18/18	13:20	180326 A	04/2019	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 Mussen	4/18/18	7:15	17100SB	4/2019	7.0	7.00	325	P/F	L/F
Calibr.	Curtis Mussen	4/18/18	7:17	17100SA	10/2018	4.0	4.01	172	P/F	L/F
Calibr.	Curtis Mussen	4/18/18	7:19	17100SC	4/2019	10.0	9.98	-160	P/F	L/F
ICV	Curtis Mussen	4/18/18	7:21	17100SC	4/2019	10.0	9.96	-159	P/F	L/F
CCV	Curtis Mussen	4/18/18	13:22	17100SA	10/2018	4.0	3.56	199	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	Curtis Mussen	4/18/18	7:14	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:

Collected By: Curt's Mussion / Raymond Stuart

Sampling Agency:

Relinquished By: 	Date/Time 4/18/18	Shipping Method /	Number of Coolers Shipped: 3	Received By: 	Date/Time 4-18-18/1:05
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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:

Location		Caney Creek Downstream of 158.A		WIN ID / Field ID  G1WA0000		Collection (comp begin or grab) Date 4/18/18 Time 11:00		Composite end Date mg/L Total Res. Chlorine mg/L % sat		Bottle Group(s) (See pg 2)					
Latitude 30.52		Longitude dd dms -83.94		Temp (C) 15.44		pH 6.70		Diss. Oxygen 8.45		Sample Depth 0.1		Sp. Conductance (umho/cm) 134		Bottle Group(s) D	
Salinity (ppt) 0.06		Comments		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 7.08		Sample Depth 0.2		Sp. Conductance (umho/cm) 292		Bottle Group(s) AC			
Location		Chicken Branch at Old Plank Rd		WIN ID / Field ID  G1WA0031		Collection (comp begin or grab) Date 4/18/18 Time 12:25		Composite end Date mg/L Total Res. Chlorine mg/L % sat		Bottle Group(s)					
Latitude 30.3261		Longitude dd dms -84.1481		Temp (C) 17.79		pH 7.04		Diss. Oxygen 7.08		Sample Depth 0.2		Sp. Conductance (umho/cm) 292		Bottle Group(s) AC	
Salinity (ppt) 0.14		Comments		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 7.08		Sample Depth 0.2		Sp. Conductance (umho/cm) 292		Bottle Group(s)			
Location						Collection (comp begin or grab) Date mg/L Total Res. Chlorine mg/L % sat		Composite end Date mg/L Total Res. Chlorine mg/L % sat		Bottle Group(s)					
Field ID						Diss. Oxygen		Total Res. Chlorine		Bottle Group(s)					
WIN/STORET #						Sample Depth		Sp. Conductance (umho/cm)		Bottle Group(s)					
Latitude		Longitude dd dms		Temp (C)		pH		Diss. Oxygen		Total Res. Chlorine		Bottle Group(s)			
Salinity (ppt)															
Location						Collection (comp begin or grab) Date mg/L Total Res. Chlorine mg/L % sat		Composite end Date mg/L Total Res. Chlorine mg/L % sat		Bottle Group(s)					
Field ID						Diss. Oxygen		Total Res. Chlorine		Bottle Group(s)					
WIN/STORET #						Sample Depth		Sp. Conductance (umho/cm)		Bottle Group(s)					
Latitude		Longitude dd dms		Temp (C)		pH		Diss. Oxygen		Total Res. Chlorine		Bottle Group(s)			
Salinity (ppt)															
Location						Collection (comp begin or grab) Date mg/L Total Res. Chlorine mg/L % sat		Composite end Date mg/L Total Res. Chlorine mg/L % sat		Bottle Group(s)					
Field ID						Diss. Oxygen		Total Res. Chlorine		Bottle Group(s)					
WIN/STORET #						Sample Depth		Sp. Conductance (umho/cm)		Bottle Group(s)					
Latitude		Longitude dd dms		Temp (C)		pH		Diss. Oxygen		Total Res. Chlorine		Bottle Group(s)			
Salinity (ppt)															
Location						Collection (comp begin or grab) Date mg/L Total Res. Chlorine mg/L % sat		Composite end Date mg/L Total Res. Chlorine mg/L % sat		Bottle Group(s)					
Field ID						Diss. Oxygen		Total Res. Chlorine		Bottle Group(s)					
WIN/STORET #						Sample Depth		Sp. Conductance (umho/cm)		Bottle Group(s)					
Latitude		Longitude dd dms		Temp (C)		pH		Diss. Oxygen		Total Res. Chlorine		Bottle Group(s)			
Salinity (ppt)															
Location						Collection (comp begin or grab) Date mg/L Total Res. Chlorine mg/L % sat		Composite end Date mg/L Total Res. Chlorine mg/L % sat		Bottle Group(s)					
Field ID						Diss. Oxygen		Total Res. Chlorine		Bottle Group(s)					
WIN/STORET #						Sample Depth		Sp. Conductance (umho/cm)		Bottle Group(s)					
Latitude		Longitude dd dms		Temp (C)		pH		Diss. Oxygen		Total Res. Chlorine		Bottle Group(s)			
Salinity (ppt)															

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
					4/18/18 1:05

Group: A	Bottle Type: P-1L	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	6
ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS						
Group: A	Bottle Type: BP-1L	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	6
CHLSUITE-W						
Group: A	Bottle Type: P-250ML-WO-THI	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	6
ECOLI-18QT						
Group: A	Bottle Type: P-500ML	# of Bottles: 6	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	6
W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC						
Group: A	Bottle Type: P-125ML	# of Bottles: 6	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	6
W-PO4-F						
Group: B	Bottle Type: P-500ML	# of Bottles: 4	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	4
W-ICP W-ICPMS						
Group: C	Bottle Type: QPCR-P-500ML	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	3
PCR-FILTER						
Group: C	Bottle Type: BG-500ML	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
W-E8321-DI W-E8321-MS						
Group: D	Bottle Type: QPCR-P-500ML	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
PCR-BACR PCR-FILTER						

Group: D	Bottle Type: W-E8321-DI W-E8321-MS	BG-500ML	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	3
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Cooler Packing Worksheet for Request: RQ-2018-04-16-18

Black, Wards, caney, Harbinwood, Megginnis

Ship Cooler On: 4/12/2018

Customer/Project: WAS-SECT/SMP

Assigned To: GREENWOO_J

Requester: Curtis Musson

Priority: 3

850-245-8453

2600 Blair Stone Rd

Tallahassee, FL 32399

Attn: Curtis Musson

Comments:

No preservatives needed.

Group A: Freshwater Kit & E. coli

Group B: Metals

Group C: Tracers & PCR-FILTER

Group D: Tracers & PCR-FILTER & PCR-BacR

Packing Notes:

No FedEx labels

No Trash Bags

QC bottles added-jhw

Requested Analyses:

Bottle Group: A

of Sites: 6

Container ID: P-1L

Qty: 6

Preservation: ICE

Lot # 00070681

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: 6

Preservation: ICE

Lot # 1223623

Description: Brown Plastic Bottle 1L

Analysis

Description

Container ID: P-250ML-WO-THI

Qty: 6 Preservation: ICE

Lot # 417167

Description:

Analysis

ECOLI-18QT

Description

Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems

Container ID: P-500ML

Qty: 6 Preservation: ICE And H2SO4

Lot # 00066045

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: 6 Preservation: FILTER-ICE

Lot # 00069732

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: 4

Container ID: P-500ML

Qty: 4 Preservation: HNO3

Lot # 00066045

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

Bottle Group: C# of Sites: 3

Container ID: QPCR-P-500ML

Qty: 3 Preservation: ICE

Lot # 00070172

Description: 500ml Sterile Nalgene

Analysis

PCR-FILTER

Description

Preparation of Samples by Filtration and held for qPCR Analysis

Container ID: BG-500ML

Qty: 4 Preservation: ICE

Lot # 00070528

Description: Brown Glass Bottle 500ML

Affix BLUE dot to container.

Analysis

W-E8321-DI

W-E8321-MS

Description

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Bottle Group: D

of Sites: 2

Container ID: QPCR-P-500ML

Qty: 2 Preservation: ICE

Lot # 00070172

Description: 500ml Sterile Nalgene

Analysis

PCR-BACR

PCR-FILTER

Description

Detection and quantification of Ruminant specific Bacteroidetes BacR genetic marker with quantitative polymerase chain reaction

Preparation of Samples by Filtration and held for qPCR Analysis

Container ID: BG-500ML

Qty: 3 Preservation: ICE

Lot # 00069782

Description: Brown Glass Bottle 500ML

Affix BLUE dot to container.

00070528/2

Analysis

W-E8321-DI

W-E8321-MS

Description

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Cooler Packed By:

J.D.

Number of Coolers:

3

Date:

4/11/18

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-2018-04-16-18