



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2018

Data Qualified?

Yes / No

WIN Station Name: Black Creek upstream of Bloxham Cutoff

Date: 1/10/2018

WIN/ Field ID: G1WA0023

WBID: 1054

Latitude: 30.27792

(mm/dd/yyyy)

County: Wakulla

ORG ID: 21FLWQA

Longitude: -84.3858

(Decimal Degrees)

Receiving Body of Water: Wakulla Springs

RQ-2018- 01-08-11

(Decimal Degrees)

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

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ 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# Biology #2			Matrix: Fresh / Marine / DI					
Photos: Yes / No			Flow: No Flow / Intestinal / <u>Flowing</u> / NA			Tide: Rising/ Falling/ Slack <u>NA</u>			Tide Times: High <u>NA</u> Low <u>NA</u>		

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	8:50	0.35	0.15	VOB	8.94	83.3	5.96	0.03	63	12.20
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	723303	8/21/18	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <2
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-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-A, Bacteria

Field/WIN ID → Black Creek upstream of Bloxham Cutoff

Signature: Crook Date: 1-10-2018

Enter Field Parameters, Verify Station ID In LIMS DMT: 1/12/18 QC Station ID, Field Parameters In LIMS DMT: CM 2-21-18

Scan/Save Field Sheets CM 2-21-18 Migrate Data to WIN: (Initials/Date) Verify Data In WIN: (Initials/Date)

Contains 1.1 Sulfuric Acid
Lot No.: SA723303
Expires: 08/21/18
See Safety Data Sheet (SDS)

Place Preservation (If A)

Contains 1.1 Sulfuric Acid
THERMO FISHER SCIENTIFIC
505 MILLIKEN BLVD
ANN ARBOR MI 48106
1-800-654-2111
Contains 1.1 Sulfuric Acid
Lot No.: 723303
Expires: 08/21/18
See Safety Data Sheet (SDS)

G1WA0023

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: Bio #2 RQ: 2018-01-08-01 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 Mussen	1-10-18	657	20.82	8.950	8.95	100.0	54	-	P/F	L/F
ICV	Curtis Mussen	1-10-18	658	20.80	8.950	8.95	100.0	53	-	P/F	L/F
CCV	Curtis Mussen	1-10-18	1340	22.35	8.693	8.78	100.0	54	-	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	1-10-18	700	171005D	10/2018	1000	1000	P/F	L/F
ICV	Curtis Mussen	1-10-18	701	171005D	10/2018	1000	1000	P/F	L/F
CCV	Curtis Mussen	1-10-18	1342	171005E	10/2018	100	103	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	1-10-18	704	170614B	12/2018	7.0	7.00	24	P/F	L/F
Calibr.	Curtis Mussen	1-10-18	705	171005A	10/2018	4.01	4.01	186	P/F	L/F
Calibr.	Curtis Mussen	1-10-18	708	171005C	4/2018	10.01	9.98	-131	P/F	L/F
ICV	Curtis Mussen	1-10-18	710	171005A	10/2018	4.01	4.01	185	P/F	L/F
CCV	Curtis Mussen	1-10-18	1344	171005C	4/2018	10.01	10.17	-141	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	1-10-18	702	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:

Sand, Black, 8, AJ, Harbinwood, Swamp, Salem

last revised Apr 7, 2016

Customer: WAS-SECT

Requester: Curtis Musson

Field Report Prepared By: Curtis Musson, Ben Rabs

Project ID: SMP

Collected By: Curtis Musson, Ben Rabs

Sampling Agency: FDEP

Location		WIN ID / Field ID →		Longitude		Latitude		Bottle Group(s)	
Field ID	Sand Pond		dd dms		~ 84.387		30.334		A, C
STORET #	Midcle								
Matrix (type, e.g., Salt, Fresh, etc)		Collection (comp begin or grab)		Diss. Oxygen		Total Res. Chlorine			
Fresh		Date 1/10/18		9:20		10.26			
Temp (C)		pH		Sample Depth		Sp. Conductance			
12.22		5.19		0.3		15			
Salinity (ppt)		Comments							
0.01									
Matrix (type, e.g., Salt, Fresh, etc)		Collection (comp begin or grab)		Diss. Oxygen		Total Res. Chlorine			
Fresh		Date 1/10/18		9:59		8.92			
Temp (C)		pH		Sample Depth		Sp. Conductance			
13.90		5.22		0.15		24			
Salinity (ppt)		Comments							
0.01									
Matrix (type, e.g., Salt, Fresh, etc)		Collection (comp begin or grab)		Diss. Oxygen		Total Res. Chlorine			
Fresh		Date 1/10/18		8:50		8.94			
Temp (C)		pH		Sample Depth		Sp. Conductance			
12.20		5.96		0.15		63			
Salinity (ppt)		Comments							
0.03									
Matrix (type, e.g., Salt, Fresh, etc)		Collection (comp begin or grab)		Diss. Oxygen		Total Res. Chlorine			
Fresh		Date 1/10/18		8:10		7.42			
Temp (C)		pH		Sample Depth		Sp. Conductance			
15.87		6.03		0.1		69			
Salinity (ppt)		Comments							
0.03									
Matrix (type, e.g., Salt, Fresh, etc)		Collection (comp begin or grab)		Diss. Oxygen		Total Res. Chlorine			
Fresh		Date 1/10/18		8:10		7.42			
Temp (C)		pH		Sample Depth		Sp. Conductance			
15.87		6.03		0.1		69			
Salinity (ppt)		Comments							
0.03									

Relinquished By: <u>Curtis Musson</u>	Date/Time: <u>1/10/2018 13:21</u>	Shipping Method: <u>3</u>	Number of Coolers Shipped: <u>3</u>	Received By: <u>SK</u>	Date/Time: <u>1-10-18 1:22</u>
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Sand, Black, 8, AJ, Harbinwood, Swamp, Salem

Requester: Curtis Musson

Field Report Prepared By:

Project ID: SMP

Collected By: Curtis Museum Books

Field Report Prepared By: Curtis M.

Sampling Agency:

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Curtis Mussen	01/10/2018	1321 Drop off	3	SR	1-10-18/122

Number of Coolers Shipped:

Shipping Method

Date/Time

Relinquished By:

Number of C 3

ed:

Shipping Method
Drop off

1321

Date/Time
01/10/

Complimented By: Curtis Mc

Received By:

Date/Time

2

ed:

Shipping Method
Drop off

1321

Date/Time
01/10/

Complimented By: Curtis Mc

0

Group: A	Bottle Type: P-1L	# of Bottles: 7	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>6</u>
ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS						
Group: A	Bottle Type: BP-1L	# of Bottles: 7	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>6</u>
CHLSUITE-W						
Group: A	Bottle Type: P-500ML	# of Bottles: 7	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	<u>6</u>
W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC						
Group: A	Bottle Type: P-125ML	# of Bottles: 7	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	<u>6</u>
W-PO4-F						
Group: B	Bottle Type: P-500ML	# of Bottles: 2	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	<u>2</u>
W-ICP W-ICPMS						
Group: C	Bottle Type: P-250ML-WO-THI	# of Bottles: 8	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>7</u>
ECOLI-18QT						
Group: D	Bottle Type: BG-1L	# of Bottles: 5	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>4</u>
W-AHERB-AA W-SUC-AA-R W-UHERB-AA						
Group: E	Bottle Type: QPCR-P-250ML	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>4</u>
PCR-FILTER PCR-HF183						
Group: F	Bottle Type: QPCR-P-250ML	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>5</u>
PCR-FILTER						

Cooler Packing Worksheet for Request: RQ-2018-01-08-11

Sand, Black, 8, AJ, Harbinwood, Swamp, Salem

Ship Cooler On: 1/2/2018

Customer/Project: WAS-SECT/SMP

Assigned To: SEARSON_C

Requester: Curtis Musson

Priority: 3

850-245-8453

2600 Blair Stone Rd

Tallahassee, FL 32399

Attn: Curtis Musson

Comments:

No preservatives needed.

Group A: Nutrients, CHLA, Physical Aggregates

Group B: Metals

Group C: Microbiology (Bacteria)

Group D: Organics (Wastewater Tracers)

Group E: PCR HF183, FILTER

Group F: PCR FILTER

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 # 1200289

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

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-UHERB-AA

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

Bottle Group: E

of Sites: 2

Container ID: QPCR-P-250ML

Qty: 4 Preservation: ICE

Lot # 00066780

Description:

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

Bottle Group: F

of Sites: 3

Container ID: QPCR-P-250ML

Qty: 6 Preservation: ICE

Lot # 00066780

Description:

Analysis

PCR-FILTER

Description

Preparation of Samples by Filtration and held for qPCR Analysis

Cooler Packed By: CS

Number of Coolers: 4

Date: 12/29/17

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-2018-01-08-11