



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

PAGE 1 OF

March 2017

Data Qualified?

Yes / No

Location/STORET Station Name: Black Creek upstream of Bloxham Cutoff

Date: 11/15/2017

(mm/dd/yyyy)

STORET # G1WA0023

WBID: 1054

Latitude: 30.27792

County: Wakulla RQ - 2017-11-13-27

ORG ID: 21FLWQA

Longitude: -84.3858

(Decimal Degrees)

(Decimal Degrees)

Receiving Body of Water: Wakulla Springs

Field ID: G1WA0023 11152017

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment			
Ben Ralys					X	X	X	X	X	☒ Sample Container	☐ Van Dorn	☐ Pole	
AJ Jones										☐ Carboy	☒ Syringe		
										☐ Dipper	☐ Other		
										Equipment ID			
										Collection Method			
										☒ Wading			
										☐ From Shore			
										☐ Other (note below)			
										☐ Canoe/Kayak			
										☐ Electric Motor			
										☐ Gasoline Motor			

Water Level: Dry / Pooled / Low / (Normal) / High / Flooded						Matrix: (Fresh) / Marine / DI				
Meter ID# Biology #2			Photos: Yes / (No)			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 (umhos/cm)	Temp. (C°)
(EST)	8:20	0.3	0.4	5.48	535	5.85	0.02	VOB	48	14.06
CEN										

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

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

Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☒ H2SO4	SA725	10/2/18	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3	SA7275010		☐ <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-Cl-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 ☐ 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	☐ Ice			
	☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Other			

SULFURIC ACID <51%
DANGER
7894-93-8
7732-18-5
Contains 1:1 Sulfuric Acid

Contains 1:1 Sulfuric Acid
Lot No.: SA7275010
Expires: 10/02/18
See Safety Data Sheet (SDS)

May be corrosive to metals. Causes severe skin burns and eye damage. Do not breathe fumes/mist/vapors. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/face protection. Wash contaminated clothing before reuse. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water at least 15 minutes. IF INHALED: Remove victim to fresh air and rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Store in corrosion resistant container with a resistant inner liner.

Notes:

KIT-A

Black Creek
upstream of
Bloxham Cutoff

STORET ↓



G1WA0023

Field ID →

Black Creek:
upstream of
Bloxham Cutoff

Nov 15, 2017



G1WA0023_11152017

Signature:

Date:

11/15/17

Field Parameters Entered into LIMS:

11/3/18

(Initials/Date)

Field Parameters QC in LIMS:

CM 1-26-2018

(Initials/Date)

Date Migrated to STORET:

Field Sheets Scanned/Saved:

CA 1-26-2018

(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: Biology #2

RQ: 2017-11-13-27

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	11/15/17	7:18	20.53	9.00	9.00	100.0	49.2	—	☒ F	☒ F
ICV	Ben Ralys	11/15/17	7:19	20.48	9.02	9.01	100.0	49.2	—	☒ F	☒ F
CCV	Ben Ralys	11/15/17	3:23	20.28	9.05	8.84	97.8	48.2	—	☒ F	☒ 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	11/15/17	7:07	171005D	10/2018	1000	1,000	☒ F	☒ F
ICV	Ben Ralys	11/15/17	7:09	171005D	10/2018	1000	1,001	☒ F	☒ F
CCV	Ben Ralys	11/15/17	3:25	171005E	10/2018	100	99	☒ F	☒ 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	11/15/17	7:11	170614B	12/2018	7.0	7.00	11.0	☒ F	☒ F
Calibr.	Ben Ralys	11/15/17	7:13	171005A	10/2018	4.0	4.00	184.7	☒ F	☒ F
Calibr.	Ben Ralys	11/15/17	7:15	170310C	9/2018	10.0	9.97	-152.2	☒ F	☒ F
ICV	Ben Ralys	11/15/17	7:16	170310C	9/2018	10.0	9.95	-151.5	☒ F	☒ F
CCV	Ben Ralys	11/15/17	3:27	171005A	10/2018	4.0	3.92	187.4	☒ F	☒ 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:

**Quincy Creek, Black Creek
Customer: WAS-SECT
Project ID: SMP**

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Central Lab Sample Submittal Form

Requester: Curtis Musson

Field Report Prepared By: Ben KalyS
Sampling Agency: FDEP

Collected By: Ben Rakys AS Jones

STREET →



G1WA0023

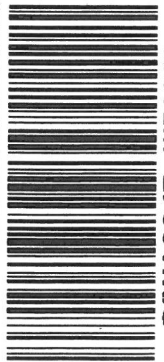


G1WA0023 11152017

STORET
→



G1WA0047

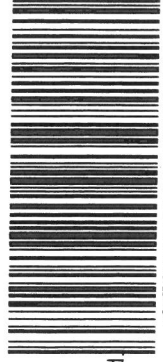


G1WA0047 1152017

STORET →



G1WA0059



G1WA0059 1152017

Collection (comp begin or grab)		Date		Time		Bottle Group(s)	
☐ Comp	☒ Grab	Date	11/15/17	Time	8:20	A	
Matrix (Salt, Fresh)		Diss. Oxygen (mg/L)		5.48			
Temp (C)		pH		Sample Depts (m)		Sp. Conductance (umho/cm)	
14.06		5.85		0.3		48	
Salinity (ppt)		Comments		Longitude (Decimal Degrees)			
0.02				30.27792			
Latitude (Decimal Degrees)		Collection (comp begin or grab)		Date		Time	
		11/15/17		9:10			
Matrix (Salt, Fresh)		Diss. Oxygen (mg/L)		9.29			
Temp (C)		pH		Sample Depts (m)		Sp. Conductance (umho/cm)	
13.69		7.52		0.3		99	
Salinity (ppt)		Comments		Longitude (Decimal Degrees)			
0.05				30.325			
Latitude (Decimal Degrees)		Collection (comp begin or grab)		Date		Time	
		11/15/17		9:50			
Matrix (Salt, Fresh)		Diss. Oxygen (mg/L)		6.61			
Temp (C)		pH		Sample Depts (m)		Sp. Conductance (umho/cm)	
13.5		6.62		0.3		102	
Salinity (ppt)		Comments		Longitude (Decimal Degrees)			
0.05				30.531			
Latitude (Decimal Degrees)		Collection (comp begin or grab)		Date		Time	
		11/15/17		9:50			
Matrix (Salt, Fresh)		Diss. Oxygen (mg/L)		6.61			
Temp (C)		pH		Sample Depts (m)		Sp. Conductance (umho/cm)	
13.5		6.62		0.3		102	
Salinity (ppt)		Comments		Longitude (Decimal Degrees)			
0.05				30.531			
Latitude (Decimal Degrees)		Collection (comp begin or grab)		Date		Time	
		11/15/17		9:50			
Matrix (Salt, Fresh)		Diss. Oxygen (mg/L)		6.61			
Temp (C)		pH		Sample Depts (m)		Sp. Conductance (umho/cm)	
13.5		6.62		0.3		102	
Salinity (ppt)		Comments		Longitude (Decimal Degrees)			
0.05				30.531			
Latitude (Decimal Degrees)		Collection (comp begin or grab)		Date		Time	
		11/15/17		9:50			
Matrix (Salt, Fresh)		Diss. Oxygen (mg/L)		6.61			
Temp (C)		pH		Sample Depts (m)		Sp. Conductance (umho/cm)	
13.5		6.62		0.3		102	
Salinity (ppt)		Comments		Longitude (Decimal Degrees)			
0.05				30.531			
Latitude (Decimal Degrees)		Collection (comp begin or grab)		Date		Time	
		11/15/17		9:50			
Matrix (Salt, Fresh)		Diss. Oxygen (mg/L)		6.61			
Temp (C)		pH		Sample Depts (m)		Sp. Conductance (umho/cm)	
13.5		6.62		0.3		102	
Salinity (ppt)		Comments		Longitude (Decimal Degrees)			
0.05				30.531			
Latitude (Decimal Degrees)		Collection (comp begin or grab)		Date		Time	
		11/15/17		9:50			
Matrix (Salt, Fresh)		Diss. Oxygen (mg/L)		6.61			
Temp (C)		pH		Sample Depts (m)		Sp. Conductance (umho/cm)	
13.5		6.62		0.3		102	
Salinity (ppt)		Comments		Longitude (Decimal Degrees)			
0.05				30.531			
Latitude (Decimal Degrees)		Collection (comp begin or grab)		Date		Time	
		11/15/17		9:50			
Matrix (Salt, Fresh)		Diss. Oxygen (mg/L)		6.61			
Temp (C)		pH		Sample Depts (m)		Sp. Conductance (umho/cm)	
13.5		6.62		0.3		102	
Salinity (ppt)		Comments		Longitude (Decimal Degrees)			
0.05				30.531			
Latitude (Decimal Degrees)		Collection (comp begin or grab)		Date		Time	
		11/15/17		9:50			
Matrix (Salt, Fresh)		Diss. Oxygen (mg/L)		6.61			
Temp (C)		pH		Sample Depts (m)		Sp. Conductance (umho/cm)	
13.5		6.62		0.3		102	
Salinity (ppt)		Comments		Longitude (Decimal Degrees)			
0.05				30.531			
Latitude (Decimal Degrees)		Collection (comp begin or grab)		Date		Time	
		11/15/17		9:50			
Matrix (Salt, Fresh)		Diss. Oxygen (mg/L)		6.61			
Temp (C)		pH					

Relinquished By:

Date/Time 11/15/17

2:50

Number of Coolers

Received By:

Date/Time 11-15-17 14:50

Request Number: 2017-11-13-27

Quincy Creek, Black Creek

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Collected By: Ben Ralbs, AJ Jones

Field Report Prepared By: Ben Ralbs

Sampling Agency: FDEP

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Quincy Creek
upstream of
SR 268

Field ID →
Quincy Creek
upstream of
SR 268
Nov 15, 2017

STORET ↓
G1WA0051

Quincy Creek
upstream of
SR 267

Field ID →
Quincy Creek
upstream of
SR 267
Nov 15, 2017

STORET ↓
G1WA0050

Quincy Creek
upstream of
SR 65

Field ID →
Quincy Creek
upstream of
SR 65
Nov 15, 2017

STORET ↓
G1WA0049

☐ Comp ☒ Grab	Collection (comp begin or grab) Date 11/15/17 Time 10:30	Eastern Central	Collection (comp begin or grab) Date — Time —	Bottle Group(s)
Matrix (Salt, Fresh) fresh	Diss. Oxygen (mg/L) 10.03			
Temp (C) 12.72	pH 7.45	Sample Depts (m) 0.1	Sp. Conductance (umho/cm) 72	A,B,C, D,E
Salinity (ppt) 0.03	Comments			
Latitude (Decimal Degrees) 30.597		Longitude (Decimal Degrees) -84.598		
☐ Comp ☒ Grab	Collection (comp begin or grab) Date 11/15/17 Time 11:05	Eastern Central	Collection (comp begin or grab) Date — Time —	Bottle Group(s)
Matrix (Salt, Fresh) fresh	Diss. Oxygen (mg/L) 9.78			
Temp (C) 13.86	pH 7.20	Sample Depts (m) 0.15	Sp. Conductance (umho/cm) 55	A,B,C,D E
Salinity (ppt) 0.02	Comments			
Latitude (Decimal Degrees) 30.600		Longitude (Decimal Degrees) -84.581		
☐ Comp ☒ Grab	Collection (comp begin or grab) Date 11/15/17 Time 11:26	Eastern Central	Collection (comp begin or grab) Date — Time —	Bottle Group(s)
Matrix (Salt, Fresh) fresh	Diss. Oxygen (mg/L) 9.93			
Temp (C) 13.66	pH 7.36	Sample Depts (m) 0.1	Sp. Conductance (umho/cm) 58	A,B,C,D E
Salinity (ppt) 0.03	Comments			
Latitude (Decimal Degrees) 30.599		Longitude (Decimal Degrees) -84.576		

Relinquished By: Ben Ralbs

Date/Time 11/15/17 2:50

Number of Coolers

Received By: ARB

Date/Time 11-15-17 11:50

Group: A	Bottle Type: ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS	P-1L	# of Bottles: 6	Preservative: ICE	Enter Number of Bottles Sent to Lab	6
Group: A	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 6	Preservative: ICE	Enter Number of Bottles Sent to Lab	6
Group: A	Bottle Type: W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC	P-500ML	# of Bottles: 6	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	6
Group: A	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 6	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab	6
Group: B	Bottle Type: W-ICP W-ICPMS	P-500ML	# of Bottles: 5	Preservative: HNO3	Enter Number of Bottles Sent to Lab	5
Group: B	Bottle Type: W-NH3	P-125ML	# of Bottles: 5	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	0
Group: C	Bottle Type: ECOLI-18QT	P-250ML-WO-THI	# of Bottles: 7	Preservative: ICE	Enter Number of Bottles Sent to Lab	7
Group: D	Bottle Type: W-AHERB-AA W-SUC-AA-R W-UHERB-AA	BG-1L	# of Bottles: 7	Preservative: ICE	Enter Number of Bottles Sent to Lab	7
Group: E	Bottle Type: PCR-FILTER PCR-HF183	QPCR-P-250ML	# of Bottles: 10	Preservative: ICE	Enter Number of Bottles Sent to Lab	12

Group: F

Bottle Type:
PCR-BACR
PCR-FILTER

QPCR-P-250ML

of Bottles: 2

Preservative:

ICE

Enter Number of Bottles Sent to Lab

2

Cooler Packing Worksheet for Request: RQ-2017-11-13-27

Black Creek, Quincy

Ship Cooler On: 11/1/2017

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: Freshwater

Group B: Metals

Group C: Ecoli

Group D: Tracers (AHERB Short list)

Group E: PCR Filter, HF183

Group F: PCR FILTER, BacR

Requested Analyses:

Bottle Group: A

of Sites: 6

Container ID: P-1L

Qty: 6 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: 6 Preservation: ICE

Lot # 1208913

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Bottle Group: D**# of Sites: 7**

Container ID: BG-1L

Qty: 7

Preservation: ICE

Lot # 00069348

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: 5**

Container ID: QPCR-P-250ML

Qty: 10

Preservation: ICE

Lot # 00068569

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: 1**

Container ID: QPCR-P-250ML

Qty: 2

Preservation: ICE

Lot # 00068569

Description:

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