



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

March 2017

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Data Qualified?
Yes / No

PH

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

Date: 9/6/17

(mm/dd/yyyy)

STORET # G1WA0023

WBID: 1054

Latitude: 30.27792

(Decimal Degrees)

County: Wakulla

RQ - 2017-09-04-24

ORG ID: 21FLWQA

Longitude: -84.3858

(Decimal Degrees)

Receiving Body of Water: Wakulla River

Field ID: G1WA0023

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Ben Ralys						X	X		
Phil Homann					X			X	X

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☒ Syringe	
☐ Dipper	☐ Other	
Equipment ID		

Collection Method		
☒ Wading	Via Boat	
☐ From Shore	☐ Canoe/Kayak	
☐ Other (note below)	☐ 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 (µmhos/cm)	Temp. (C°)
EST	0820	0.3	0.9	6.29	75.3	4.25	0.03	0.3	59	24.53
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	SA7163030	6/12/18	☒ <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-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 ☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Ice ☐ Other			

SULFURIC ACID >51%
DANGER
7554-80-9
7732-18-5
Contains 1.1 Sulfuric Acid
THERMO FISHER SCIENTIFIC
530 NORTH MAIN STREET
MIAMI, OK 74354
1-828-555-2711
May be corrosive to metals. Causes severe skin burns and eye damage. Do not breathe fumes/vapors. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Wash contaminated clothing before reuse. IF SWALLOWED: Rinse mouth. Do not induce vomiting. IF ON SKIN (or hair): Remove/soak off water/brother. IF INHALED: Remove victim to fresh air and keep at 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 corrosive resistant container with a resistant inner liner.

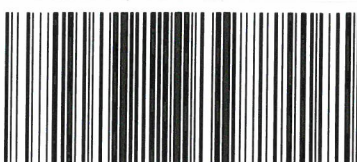
Notes:

Kit A

Field ID →

Black Creek
upstream of
Bloxham Cutoff

Sept 6, 2017



G1WA0023 09062017

Black Creek
upstream of
Bloxham Cutoff

STORET ↓



G1WA0023

Signature:

B. R.

Date:

9/6/17

Field Parameters Entered into LIMS:

CM 9-7-17

(Initials/Date)

Field Parameters QC in LIMS:

(Initials/Date)

Date Migrated to STORET:

(Initials/Date)

Field Sheets Scanned/Saved:

9-7-17

(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 name.

PH

Meter Biology #2

RQ- 2017-09-04-24

Project SMP

- Notes:** (1) Numbers ≤ 4 , are rounded down; numbers ≥ 5 are rounded up (e.g., 5.15 becomes 5.2).
 (2) Always wait for meter to stabilize before recording any readings.
 (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 03/06/2017

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	9/6/17	7:25	21.44	8.84	8.84	100.0	52.3	—	P	Lab
ICV	Ben Ralys	9/6/17	7:26	21.47	8.84	8.83	99.9	52.3	—	P	Lab
CCV	Ben Ralys	9/6/17	3:24	22.94	8.59	8.72	101.6	52.3	—	P	Lab
CCV											

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

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	9/6/17	7:28	170310D	3/2018	1,000	1,000	P	Lab
ICV	Ben Ralys	9/6/17	7:29	170310D	3/2018	1,000	1,001	P	Lab
CCV	Ben Ralys	9/6/17	3:26	170310D	3/2018	1,000	1,001	P	Lab
CCV	Ben Ralys	9/7/17	7:20	170614D	6/2018	100	105	P	Lab

Report specific conductance as a whole number with no decimal figure.

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	9/6/17	7:31	170310B	9/2018	7.0	6.95	33.3	P	Lab
Calibr.	Ben Ralys	9/6/17	7:33	170614A	6/2018	4.0	3.98	204.7	P	Lab
Calibr.	Ben Ralys	9/6/17	7:35	170310C	9/2018	10.0	9.90	-120.3	P	Lab
ICV	Ben Ralys	9/6/17								Lab
CCV	Ben Ralys	9/6/17	3:28	170614A	6/2018	4.0	4.11	194.4	P	Lab
CCV										

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU;

mV pH7 Range 0 ± 50 ;

mV pH 4 Range $+180 \pm 50$;

mV pH 10 Range -180 ± 50 ;

Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly)

Date of Last Depth Verification

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air				0.000			

ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater

Request Number: 2017-09-04-24

Black Creek, Quincy Creek, Little River

Customer: WAS-SECT

Project ID: SMP

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Central Lab Sample Submittal Form

Requester: Curtis Musson

Collected By: Ben Raby, Phil Hermann

Field Report Prepared By: Ben Raby

Sampling Agency: FDEP

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Location

Quincy Creek STORET ↓
upstream of
SR 267
ATWA0050

Field ID →
Quincy Creek
upstream of
SR 267

Sept 6, 2017
ATWA0050_09062017

☐ Comp ☒ Grab	Collection (comp begin or grab) Date 9/6/17 Time 1050	☒ Eastern Central	Collection (comp begin or grab) Date — Time —	Bottle Group(s)
Matrix (Salt, Fresh) Fresh	Diss. Oxygen (mg/L) 7.59	Sample Depts (m) —	Sp. Conductance (umho/cm) —	A, B, C
Temp (C) 24.06	pH 6.97	0.15	59	D, F
Salinity (ppt) 0.03	Comments			
Latitude (Decimal Degrees) 30.600		Longitude (Decimal Degrees) -84.581		

Location

Quincy Creek STORET ↓
upstream of
SR 65
ATWA0049

Field ID →
Quincy Creek
upstream of
SR 65

Sept 6, 2017
ATWA0049_09062017

☐ Comp ☒ Grab	Collection (comp begin or grab) Date 9/6/17 Time 1115	☒ Eastern Central	Collection (comp begin or grab) Date — Time —	Bottle Group(s)
Matrix (Salt, Fresh) Fresh	Diss. Oxygen (mg/L) 7.73	Sample Depts (m) 0.15	Sp. Conductance (umho/cm) —	A, B, C, D, F
Temp (C) 24.00	pH 7.04		62	
Salinity (ppt) 0.03	Comments			
Latitude (Decimal Degrees) 30.599		Longitude (Decimal Degrees) -84.576		

Location

Juniper Creek STORET ↓
upstream of
Juniper Creek Rd.
ATWA0059

Field ID →
Juniper Creek
upstream of
Juniper Creek Rd

Sept 6, 2017
ATWA0059_09062017

☐ Comp ☒ Grab	Collection (comp begin or grab) Date 9/6/17 Time 1010	☒ Eastern Central	Collection (comp begin or grab) Date — Time —	Bottle Group(s)
Matrix (Salt, Fresh) Fresh	Diss. Oxygen (mg/L) 4.67	Sample Depts (m) —	Sp. Conductance (umho/cm) —	C, D
Temp (C) 23.88	pH 6.05	0.3	87	E
Salinity (ppt) 0.04	Comments			
Latitude (Decimal Degrees) 30.531		Longitude (Decimal Degrees) -84.736		

Relinquished By:

Date/Time

Ben Raby

9/6/17

Number of Coolers

3

Received By:

Date/Time

9/6/17 1434

Request Number: 2017-09-04-24

Black Creek, Quincy Creek, Little River

Customer: WAS-SECT

Project ID: SMP

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Central Lab Sample Submittal Form

Requester: Curtis Musson

Collected By: Ben Ralys, Ph.D. / Hanson

Field Report Prepared By: Ben Ralys

Sampling Agency: FDEP

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Location

Quincy Creek
100 ineters
upstream of
Ralph Strong Rd. **GIWA0018**

Field ID: →
Quincy Creek
100 meters
upstream of
Ralph Strong Rd.
Sept 6, 2017 **GIWA0018_09062017**

☐ Comp	Collection (comp begin or grab)	☒ Grab	Date 9/6/17	Time 1250	☒ Eastern	Collection (comp begin or grab)	Date	Time	Bottle Group(s)
Matrix (Salt, Fresh)	Dis. Oxygen (mg/L)	7.77							A, B
Temp (C)	pH	7.04							C, D, F
Salinity (ppt)	Comments	0.03							
Latitude (Decimal Degrees)	Longitude (Decimal Degrees)	30.5837				-84.5503			

Tanyard Branch 100
meters upstream of
Ralph Strong Rd. **GIWA0005**

Field ID: →
Tanyard Branch
100 meters
upstream of Ralph
Strong Rd.
Sept 6, 2017 **GIWA0005_09062017**

☐ Comp	Collection (comp begin or grab)	☒ Grab	Date 9/6/17	Time 1240	☒ Eastern	Collection (comp begin or grab)	Date	Time	Bottle Group(s)
Matrix (Salt, Fresh)	Dis. Oxygen (mg/L)	6.20							A
Temp (C)	pH	7.33							
Salinity (ppt)	Comments	0.13							
Latitude (Decimal Degrees)	Longitude (Decimal Degrees)	30.5832				-84.5519			

Little River 100
meters upstream
of SR 12 **GIWA0020**

Field ID: →
Little River
100 meters
upstream
of SR 12
Sept 6, 2017 **GIWA0020_09062017**

☐ Comp	Collection (comp begin or grab)	☒ Grab	Date 9/6/17	Time 1320	☒ Eastern	Collection (comp begin or grab)	Date	Time	Bottle Group(s)
Matrix (Salt, Fresh)	Dis. Oxygen (mg/L)	7.31							A, C
Temp (C)	pH	7.06							D, E
Salinity (ppt)	Comments	0.04							
Latitude (Decimal Degrees)	Longitude (Decimal Degrees)								

Relinquished By: Ben Ralys

Date/Time

9/6/17

Number of Coolers

3

Received By:

Date/Time

9/6/17 1434

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Central Lab Sample Submittal Form

Request Number: 2017-09-04-24
Black Creek, Quincy Creek, Little River
Customer: WAS-SECT
Project ID: SMP

Requester: Curtis Musson
Collected By: Ben Kellys, Phil Hermann

Field Report Prepared By: Ben Kellys
Sampling Agency: FDEP
Page 1 of 3

Black Creek
upstream of
Bloxham Cutoff
STORET ↓
ST Black Creek
upstream of
Bloxham Cutoff
Sept 6, 2017
G1WA0023_09062017

☐ Comp ☒ Grab	Collection (comp begin or grab) Date 9/6/17 Time 8:20	☒ Eastern Central	Collection (comp begin or grab) Date — Time —	Bottle Group(s)	
Matrix (Salt, Fresh)	Fresh	Diss. Oxygen (mg/L)	6.29	A	
Temp (C)	24.53	pH			
Salinity (ppt)	0.03	Sample Depts (m)	0.3		
		Sp. Conductance (umho/cm)	59		
Latitude (Decimal Degrees)		30.27792		Longitude (Decimal Degrees)	-84.3858

Soapstone Branch
100 meters upstream
of SR 375
STORET ↓
Field ID →
Soapstone Branch
100 meters
upstream of
SR 375
Sept 6, 2017
G1WA0012_09062017

☐ Comp ☒ Grab	Collection (comp begin or grab) Date 9/6/17 Time 0857	☒ Eastern Central	Collection (comp begin or grab) Date — Time —	Bottle Group(s)	
Matrix (Salt, Fresh)	Fresh	Diss. Oxygen (mg/L)	6.29	A, C	
Temp (C)	24.07	pH	4.38		
Salinity (ppt)	0.02	Sample Depts (m)	0.3		
		Sp. Conductance (umho/cm)	45		
Latitude (Decimal Degrees)		30.38625		Longitude (Decimal Degrees)	-84.6355

Black Creek
upstream of
SR 375
STORET ↓
Field ID →
Black Creek
upstream of
SR 375
Sept 6, 2017
G1WA0047_09062017

☐ Comp ☒ Grab	Collection (comp begin or grab) Date 9/6/17 Time 920	☒ Eastern Central	Collection (comp begin or grab) Date — Time —	Bottle Group(s)	
Matrix (Salt, Fresh)	Fresh	Diss. Oxygen (mg/L)	6.83	C, D, E	
Temp (C)	24.13	pH	4.26		
Salinity (ppt)	0.02	Sample Depts (m)	0.3		
		Sp. Conductance (umho/cm)	48		
Latitude (Decimal Degrees)		30.325		Longitude (Decimal Degrees)	-84.693

Relinquished By: Ben Kellys
Date/Time: 9/6/17

Number of Coolers: 3

Received By: [Signature]

Date/Time: 9/6/17 1434

Group: A	Bottle Type:	P-1L	# of Bottles: 7	Preservative:	ICE	Enter Number of Bottles Sent to Lab	7 of 7
	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	7 of 7
	CHLSUITE-W						
Group: A	Bottle Type:	P-500ML	# of Bottles: 7	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	7 of 7
	W-NH3						
	W-NO2NO3						
	W-S-A-TP						
	W-TKN						
	W-TOC						
Group: A	Bottle Type:	P-125ML	# of Bottles: 7	Preservative:	ICE-FLTR	Enter Number of Bottles Sent to Lab	7 of 7
	W-PO4-F						
Group: B	Bottle Type:	P-500ML	# of Bottles: 3	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	3 of 3
	W-ICP						
	W-ICPMS						
Group: C	Bottle Type:	P-250ML-WO-THI	# of Bottles: 7	Preservative:	ICE	Enter Number of Bottles Sent to Lab	7 of 7
	ECOLL-18QT						
Group: D	Bottle Type:	BG-1L	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	6 of 6
	W-AHERB-AA						
	W-SUC-AA-R						
	W-UHB-AA-R						
Group: E	Bottle Type:	QPCR-P-250ML	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	6 of 6
	PCR-FILTER						
Group: F	Bottle Type:	QPCR-P-250ML	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	6 of 6
	PCR-FILTER						
	PCR-HF183						

Cooler Packing Worksheet for Request: RQ-2017-09-04-24

Wakulla, Quincy

Ship Cooler On: 8/25/2017

Customer/Project: WAS-SECT/SMP

Assigned To: REYNOLDS_T

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, Physicals

Group B: Metals

Group C: Ecoli

Group D: Tracers (A-Herb Shortlist)

Group E: PCR-FILTER

Group F: PCR-HF186 + PCR-FILTER

Packing Note:

No FedEx labels

Requested Analyses:

Bottle Group: A

of Sites: 7

Container ID: P-1L

Qty: 7 Preservation: ICE

Lot # 00068657

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 # 1204544

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: BG-1L

Qty: 6 Preservation: ICE

Lot # 00068050

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

Bottle Group: E

of Sites: 3

Container ID: QPCR-P-250ML

Qty: 6 Preservation: ICE

Lot # 00067801

Description:

Analysis

PCR-FILTER

Description

Preparation of Samples by Filtration and held for qPCR Analysis

Bottle Group: F

of Sites: 3

Container ID: QPCR-P-250ML

Qty: 6 Preservation: ICE

Lot # 00067801

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

Cooler Packed By: Tyler R. Number of Coolers: 4 Date: 08/23/17

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-2017-09-04-24