



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

PAGE 1 OF

Data Qualified?

Yes / No

March 2017

Location/STORET Station Name: Black Creek upstream of SR 375

Date: 11/15/2017

STORET # G1WA0047

WBID: 1024

Latitude: 30.325

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

ORG ID: 21FLWQA

Longitude: -84.693

Receiving Body of Water: Ochlockonee River Field ID: G1WA0047 11152017

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Ben Ralys									
AJ Jones									

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 / <u>Normal</u> / High / Flooded					Matrix: <u>Fresh</u> / Marine / DI									
Meter ID# Biology #2					Photos: Yes / <u>No</u>					Tide Falling: Yes / No / <u>NA</u>				
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	9:10	0.3	0.4	9.29	89.5	7.52	0.05	VOB	99	13.69				
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			☐ <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			

Notes:
Bacteria
Tracers
Markers
- BackBlack Creek
upstream of
SR 375

STORET ↓

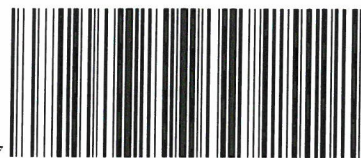


G1WA0047

Field ID →

Black Creek
upstream of
SR 375

Nov 15, 2017



G1WA0047_11152017

Signature:

Date:

11/15/17

Field Parameters Entered into LIMS:

11/13/18

(Initials/Date)

Field Parameters QC in LIMS:

CM 1-26-18

(Initials/Date)

Date Migrated to STORET:

Field Sheets Scanned/Saved:

CM 1-26-18

(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.

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	1,000	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:

Request Number: 2017-11-13-27		FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION		Central Lab Sample Submittal Form		Page 1 of 3					
Quincy Creek, Black Creek		Requester: Curtis Musson		Field Report Prepared By: Ben Rabys		Sampling Agency: FDEP					
Customer: WAS-SECT		Collected By: Ben Rabys AS Jones									
Project ID: SMP											
Black Creek upstream of Bloxham Cutoff		STORET ↓  G1WA0023_11152017		Field ID → Black Creek; upstream of Bloxham Cutoff Nov 15, 2017 G1WA0023_11152017		Black Creek upstream of SR 375		STORET ↓  G1WA0047_11152017		Field ID → Black Creek upstream of SR 375 Nov 15, 2017 G1WA0047_11152017	
Juniper Creek upstream of Juniper Creek Rd.		STORET ↓  G1WA0059_11152017		Field ID → Juniper Creek upstream of Juniper Creek Rd. Nov 15, 2017 G1WA0059_11152017		Juniper Creek upstream of SR 375		STORET ↓  G1WA0059_11152017		Field ID → Juniper Creek upstream of SR 375 Nov 15, 2017 G1WA0059_11152017	
☐ Comp ☒ Grab		Collection (comp begin or grab) Date 11/15/17 Time 8:20		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 11/15/17 Time 9:10		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 11/15/17 Time 9:50	
Matrix (Salt, Fresh) Fresh		Diss. Oxygen (mg/L) 5.48		Matrix (Salt, Fresh) Fresh		Diss. Oxygen (mg/L) 9.29		Matrix (Salt, Fresh) Fresh		Diss. Oxygen (mg/L) 6.61	
Temp (C) 14.06		pH 5.85		Temp (C) 13.69		pH 7.52		Temp (C) 13.5		pH 6.62	
Salinity (ppt) 0.02		Comments		Salinity (ppt) 0.05		Comments		Salinity (ppt) 0.05		Comments	
Latitude (Decimal Degrees) 30.27792		Longitude (Decimal Degrees) -84.3858		Latitude (Decimal Degrees) 30.325		Longitude (Decimal Degrees) -84.693		Latitude (Decimal Degrees) 30.531		Longitude (Decimal Degrees) -84.736	
Bottle Group(s) A				Bottle Group(s) C, D, F				Bottle Group(s) C, D, E			
Relinquished By: Ben Rabys		Date/Time 11/15/17		Relinquished By: Ben Rabys		Date/Time 11/15/17		Relinquished By: Ben Rabys		Date/Time 11/15/17	
Number of Coolers 2:50				Number of Coolers 2:50				Number of Coolers 2:50			
Received By: [Signature]		Date/Time 11-15-17		Received By: [Signature]		Date/Time 11-15-17		Received By: [Signature]		Date/Time 11-15-17	

Request Number: 2017-11-13-27

Quincy Creek, Black Creek

Customer: WAS-SECT

Project ID: SMP

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Central Lab Sample Submittal Form

Requester: Curtis Musson

Collected By: Ben Rabbs, AJ Jones

Field Report Prepared By: Ben Rabbs

Sampling Agency: FDEP

Page 2 of 3

Loc

Quincy Creek
upstream of
SR 268

STORET ↓



G1WA00051

Field ID →
Quincy Creek
upstream of
SR 268

Nov 15, 2017 G1WA00051 11152017

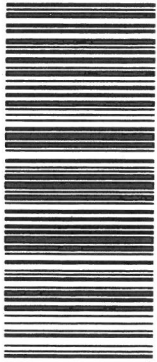
Loc

Quincy Creek
upstream of
SR 267

STORET ↓



G1WA00050

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

G1WA00050 11152017

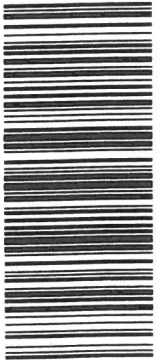
Loc

Quincy Creek
upstream of
SR 65

STORET ↓



G1WA00049

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

G1WA00049 11152017

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

Relinquished By: Ben Rabbs

Date/Time
11/15/17

2:50

Number of Coolers

Received By: ARB

Date/Time
11-15-17 11:50

Quincy Creek, Black Creek

Customer: WAS-SECT

Project ID: SMP

Loc---

Little River 100

STREET

meters upstream

File of SR 12



G1WA0020

Field ID: 

Little River

ST 100 meters

upstream

of SR 12

Nov 15, 2017

G1WA0020 11152017

Quincy Creek

STOET

100 meters

upstream of

Ralph Strong Rd. G1WA0018

Field ID

Quincy Creek:k

100 meters

upstream of

Ralph Strong Rd

Nov 15 2017

G1WA0018 11152017

Location

Field ID

STORE #

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Central Lab Sample Submittal Form

Requester: Curtis Musson

Collected By: Ben Ralys At Home

Field Report Prepared By: Ben Kays

Sampling Agency: FDEP

Page 3 of 3

Little River 100 meters upstream of SR 12 STORET # G1WA00020  Field ID: Little River 100 meters upstream of SR 12 Nov 15, 2017 G1WA00020_11152017		Collection (comp begin or grab) ☐ Comp ☒ Grab Date 11/15/17 Time 1330 Eastern Central		Collection (comp begin or grab) Date _____ Time _____ Eastern Central		Bottle Group(s) A, B, C, D	
Matrix (Salt, Fresh) Fresh Temp (C) 13.84 Salinity (ppt) 0.05 Latitude (Decimal Degrees) 30.5882		Diss. Oxygen (mg/L) 9.85 pH 7.23 Comments _____ Longitude (Decimal Degrees) -84.4957		Sample Depts (m) 0.3 Sp. Conductance (umho/cm) 98			
Collection (comp begin or grab) ☐ Comp ☒ Grab Date 11/15/17 Time 12:50 Eastern Central		Collection (comp begin or grab) Date _____ Time _____ Eastern Central		Bottle Group(s) A, B, C, D, E			
Matrix (Salt, Fresh) Fresh Temp (C) 14.25 Salinity (ppt) 0.03 Latitude (Decimal Degrees) 30.5837		Diss. Oxygen (mg/L) 10.21 pH 7.32 Comments _____ Longitude (Decimal Degrees) -84.5503		Sample Depts (m) 0.3 Sp. Conductance (umho/cm) 59			
Collection (comp begin or grab) ☐ Comp ☐ Grab Date _____ Time _____ Eastern Central		Collection (comp begin or grab) Date _____ Time _____ Eastern Central		Bottle Group(s) A, B, C, D			
Matrix (Salt, Fresh) _____ Temp (C) _____ Salinity (ppt) _____ Latitude (Decimal Degrees) _____		Diss. Oxygen (mg/L) _____ pH _____ Comments _____ Longitude (Decimal Degrees) _____		Sample Depts (m) _____ Sp. Conductance (umho/cm) _____			
Collection (comp begin or grab) ☐ Comp ☐ Grab Date _____ Time _____ Eastern Central		Collection (comp begin or grab) Date _____ Time _____ Eastern Central		Bottle Group(s) A, B, C, D			
Matrix (Salt, Fresh) _____ Temp (C) _____ Salinity (ppt) _____ Latitude (Decimal Degrees) _____		Diss. Oxygen (mg/L) _____ pH _____ Comments _____ Longitude (Decimal Degrees) _____		Sample Depts (m) _____ Sp. Conductance (umho/cm) _____			

Relinquished By: **Ben Roberts** Date/Time **11/15/17 2:50** Number of Coolers _____ Received By: **ASB** Date/Time **11-5-17 14:50**

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-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: 5	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	5
	W-ICP						
	W-ICPMS						
Group: B	Bottle Type:	P-125ML	# of Bottles: 5	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	0
	W-NH3						
Group: C	Bottle Type:	P-250ML-WO-THI	# of Bottles: 7	Preservative:	ICE	Enter Number of Bottles Sent to Lab	7
	ECOLI-18QT						
Group: D	Bottle Type:	BG-1L	# of Bottles: 7	Preservative:	ICE	Enter Number of Bottles Sent to Lab	7
	W-AHERB-AA						
	W-SUC-AA-R						
	W-UHERB-AA						
Group: E	Bottle Type:	QPCR-P-250ML	# of Bottles: 10	Preservative:	ICE	Enter Number of Bottles Sent to Lab	12
	PCR-FILTER						
	PCR-HF183						

Group: F	Bottle Type: PCR-BACR PCR-FILTER	QPCR-P-250ML	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
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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