



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

PAGE 1 OF 1

March 2017

Data Qualified?

Yes / No

Location/STORET Station Name: Caney Creek Upstream of US 90

Date: 11/28/2017

(mm/dd/yyyy)

STORET # G1WA0014

WBID: 716

Latitude: 30.5325

County: Jefferson

RQ - 2017-11-27-25

ORG ID: 21FLWQA

Longitude: -83.9501

(Decimal Degrees)

Receiving Body of Water: Lake Miccosukee

Field ID: G1WA0014

(Decimal Degrees)

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Bon Ralix					X			
Ray Stuart					X			
Curtis Musson					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 / <u>Low</u> / Normal / High / Flooded				Matrix: <u>Fresh</u> / Marine / DI						
Meter ID# <u>B6 #2</u>				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	1110	0.1	0.2	12.41	115.7	7.37	0.05	VOB	98	12.4
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	7275010	10/2/18	☒ <2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO3	7261120	9/18/18	☒ <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	☐ Ice			
	☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Ice			
		☐ Other			

Contains 1:1 Nitric Acid NA-7261120 EXP: 09/18/18 See SDS

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

Notes:

Kit
Metals
E.coli
Tracers
BacR, HF183Caney Creek
Upstream of
US 90

STORET ↓



G1WA0014

Field ID: →
Caney Creek
Upstream of
US 90

Nov 28, 2017



G1WA0014

Signature:

Date:

Field Parameters Entered into LIMS:

(Initials/Date)

Field Parameters QC in LIMS:

(Initials/Date)

Date Migrated to STORET:

(Initials/Date)

Field Sheets Scanned/Saved:

(Initials/Date)

Jefferson
Wickliffe R Bick CRK

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: Bio #2 RQ- Project: Snp

- 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 Musson	11/28/17	6:59	20.62	8.985	8.98	100.0	51.2	-	☒ P / ☐ F	☒ L / ☐ F
ICV	Curtis Musson	11/28/17	7:01	20.62	8.985	9.00	100.3	51.2	-	☒ P / ☐ F	☒ L / ☐ F
CCV	Ben Rahes	11/28/17	2:43	20.28	9.05	9.22	102.0	28.8	-	☒ P / ☐ F	☒ L / ☐ F
CCV										P / F	L / F

DO Acceptance criteria from Table ± 0.3 mg/L.

Optical: DO gain range 0.85 to 1.15; DO charge N/A.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

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 Musson	11/28/17	7:02	171005D	10/2018	1000	1000	☒ P / ☐ F	☒ L / ☐ F
ICV	Curtis Musson	11/28/17	7:03	171005D	10/2018	1000	1001	☒ P / ☐ F	☒ L / ☐ F
CCV	Ben Rahes	11/28/17	2:46	171005E	10/2018	100	99	☒ 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 Musson	11/28/17	7:07	170614B	12/2018	7.00	7.00	10.0	☒ P / ☐ F	☒ L / ☐ F
Calibr.	Curtis Musson	11/28/17	7:09	171005A	10/2018	4.01	4.01	183	☒ P / ☐ F	☒ L / ☐ F
Calibr.	Curtis Musson	11/28/17	7:10	170310C	9/2018	10.01	9.98	-158	☒ P / ☐ F	☒ L / ☐ F
ICV	Curtis Musson	11/28/17	7:12	170310C	9/2018	10.01	9.97	-156	☒ P / ☐ F	☒ L / ☐ F
CCV	Ben Rahes	11/28/17	2:48	171005A	10/2018	4.0	3.92	187.8	☒ P / ☐ F	☒ L / ☐ F
CCV									P / F	L / F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 $\pm$ 50;

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

mV pH 10 Range -180 $\pm$ 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 Musson	11/28/17	7:04	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:

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Central Lab Sample Submittal Form

Request Number: RQ-2017-11-27-25

Black, Caney, Chicke, Ward, Wakulla

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Collected By: Curtis Musson, Ben Babys

Field Report Prepared By: Curtis Musson

Sampling Agency: FDEP

Page 1 of 2

Location

Black Creek
upstream of
SR 375
G1WA0047

Field ID →

Black Creek
upstream of
SR 375

Nov 28, 2017

Wakulla River
Below Highway
98 Bridge
G1WA0028

Field ID →

Wakulla River
Below Highway
98 Bridge

Nov 28, 2017

Chicken Branch
at Old Plank Rd
G1WA0031

Field ID →

Chicken
Branch at
Old Plank Rd

Nov 28, 2017

Collection (comp begin or grab)		Collection (comp begin or grab)		Collection (comp begin or grab)	
Date	Time	Date	Time	Date	Time
11/28/17	8:20	11/28/17	9:30	11/28/17	10:16
Matrix (Salt, Fresh)		Matrix (Salt, Fresh)		Matrix (Salt, Fresh)	
Fresh		Fresh		Fresh	
Diss. Oxygen (mg/L)	11.07	Diss. Oxygen (mg/L)	6.70	Diss. Oxygen (mg/L)	6.78
pH	7.18	pH	7.94	pH	7.30
Sample Depts (m)	0.1	Sample Depts (m)	0.3	Sample Depts (m)	0.3
Sp. Conductance (umho/cm)	101	Sp. Conductance (umho/cm)	341	Sp. Conductance (umho/cm)	307
Temp (C)		Temp (C)		Temp (C)	
Salinity (ppt)	0.05	Salinity (ppt)	0.16	Salinity (ppt)	0.15
Latitude (Decimal Degrees)		Latitude (Decimal Degrees)		Latitude (Decimal Degrees)	
Longitude (Decimal Degrees)		Longitude (Decimal Degrees)		Longitude (Decimal Degrees)	
Bottle Group(s)	C, D, E	Bottle Group(s)	A	Bottle Group(s)	A, C, D, E

Relinquished By:

Curtis Musson

Date/Time

11/28/17 1316

Number of Coolers

3

Received By:

[Signature]

Date/Time

11/28/17 1355

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Request Number: RQ-2017-11-27-25
Black, Caney, Chicke, Ward, Wakulla
Customer: WAS-SECT
Project ID: SMP

Requester: Curtis Musson
Collected By: Curtis Musson, Ben Ralys

Field Report Prepared By: Curtis Musson
Sampling Agency: FDEP

Page 2 of 2

Caney Creek
Upstream of
US 90

Field ID →
Caney Creek
Upstream of
US 90
Nov 28, 2017

STORIT ↓
GIWA00014

Wards Creek
upstream of
bridge at CR 259

Field ID →
Wards Creek upstream
of bridge at CR 259
Nov 28, 2017

STORIT ↓
GIWA00002

Caney Creek
Downstream
of 158A

Field ID →
Caney Creek
Downstream
of 158A
Nov 28, 2017

STORIT ↓
GIWA00000

☐ Comp ☒ Grab	Collection (comp begin or grab) Date 11/28/17 Time 1110	Matrix (Salt, Fresh) Fresh	Diss. Oxygen (mg/L) 12.41	pH 7.37	Sample Depts (m) 0.1	Sp. Conductance (umho/cm) 98	Bottle Group(s) A,B,C D,E
Temp (C) 12.19							Longitude (Decimal Degrees)
Salinity (ppt) 0.05							
Latitude (Decimal Degrees)							
☐ Comp ☒ Grab	Collection (comp begin or grab) Date 11/28/17 Time 1140	Matrix (Salt, Fresh) Fresh	Diss. Oxygen (mg/L) 2.97	pH 5.70	Sample Depts (m) 0.15	Sp. Conductance (umho/cm) 42	Bottle Group(s) A,C D,D E
Temp (C) 11.60							Longitude (Decimal Degrees)
Salinity (ppt) 0.02							
Latitude (Decimal Degrees)							
☐ Comp ☒ Grab	Collection (comp begin or grab) Date 11/28/17 Time 1255	Matrix (Salt, Fresh) Fresh	Diss. Oxygen (mg/L) 11.82	pH 7.16	Sample Depts (m) 0.1	Sp. Conductance (umho/cm) 106	Bottle Group(s) ABC DE
Temp (C) 13.43							Longitude (Decimal Degrees)
Salinity (ppt) 0.05							
Latitude (Decimal Degrees)							

Relinquished By: Curtis Musson	Date/Time 11/28/17	Number of Coolers 3	Received By: [Signature]	Date/Time 11/28/17 1355
--------------------------------	-----------------------	------------------------	--------------------------	----------------------------

Group: A	Bottle Type: P-1L	# of Bottles: 5	Preservative: ICE	Enter Number of Bottles Sent to Lab	5
ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS					
Group: A	Bottle Type: BP-1L	# of Bottles: 5	Preservative: ICE	Enter Number of Bottles Sent to Lab	5
CHLSUITE-W					
Group: A	Bottle Type: P-500ML	# of Bottles: 5	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	5
W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC					
Group: A	Bottle Type: P-125ML	# of Bottles: 5	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab	5
W-PO4-F					
Group: B	Bottle Type: P-500ML	# of Bottles: 2	Preservative: HNO3	Enter Number of Bottles Sent to Lab	2
W-ICP W-ICPMS					
Group: C	Bottle Type: P-250ML-WO-THI	# of Bottles: 5	Preservative: ICE	Enter Number of Bottles Sent to Lab	5
ECOLI-18QT					
Group: D	Bottle Type: BG-1L	# of Bottles: 5	Preservative: ICE	Enter Number of Bottles Sent to Lab	5
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	10
PCR-BACR PCR-GFD PCR-HF183					

Cooler Packing Worksheet for Request: RQ-2017-11-27-25

Black, Caney, Ward, Chicken, Wakulla

Ship Cooler On: 11/21/2017

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

Group B: Metals

Group C: ECOLI

Group D: Tracers (AHERB Short List)

Group E: PCR

Requested Analyses:

Bottle Group: A

of Sites: 5

Container ID: P-1L

Qty: 5 Preservation: ICE

Lot # DCN69122

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: 5 Preservation: ICE

Lot # 1214297

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 5 Preservation: ICE And H2SO4

Lot # 00209255

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: 5 Preservation: FILTER-ICE

Lot # 00068595

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: 2

Container ID: P-500ML

Qty: 2 Preservation: HNO3

Lot # 00209255

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: 5

Container ID: P-250ML-WO-THI

Qty: 5 Preservation: ICE

Lot # 417048

Description:

Analysis

ECOLI-18QT

Description

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

Bottle Group: D

of Sites: 5

Container ID: BG-1L

Qty: 5 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 # 00067801

Description:

Analysis

PCR-BACR

PCR-GFD

PCR-HF183

Description

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

Detection and quantification of bird specific Helicobacter GFD genetic marker with quantitative polymerase chain reaction

Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction

Cooler Packed By: 9.2

Number of Coolers: 3

Date: 11/21/17

Kit must also include:

- ☒ Field Sheets
☒ Temperature Control Bottle
9.2 ☒ 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-2017-11-27-25