



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

March 2017

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Data Qualified?

Yes / No

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

Date: 04/18/2017

STORET # G1WA0014

WBID: 716

Latitude: 30.5325

County: Jefferson

RQ - 2017-04-03-28

ORG ID: 21FLWQA

Longitude: -83.9501

Receiving Body of Water: Lake Miccosukee

Field ID: G1WA0014_04182017

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Curtis Musson			X			
Stuart, Raymond		X		X	X	X

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☐ Syringe	
☐ Dipper	☐ Other	
Equipment ID: <u>Motor 2 PWS</u>		
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 (umhos/cm)	Temp. (C°)
EST	10:55	0.05	0.1	12.21	132.5	7.08	0.05	VOB	106	19.27
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	SA 6302030	10/28/17	☒ <2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO3	NA 6253070	09/09/17	☒ <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-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 ☒ 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: PCR Tracers Bact. Kit C	Place Label Here (If Available)
Signature: <u>[Signature]</u>	Date: <u>4/18/17</u>

Field Parameters Entered into LIMS: CM 4-19-17

Field Parameters QC in LIMS:

Date Migrated to STORET:

(Initials/Date)

Field Sheets Scanned/Saved:

(Initials/Date)

(Initials/Date)

(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 Bio #2

RQ- 2017-04-03-28

Project SMD

- 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.	Curtis Mussen	4-18-17	7:13	23.30	8.530	8.53	100.0	41	-	P	L
ICV	Curtis Mussen	4-18-17	7:14	23.30	8.530	8.60	100.9	41	-	P	L
CCV	Curtis Mussen	4-18-17	15:01	25.37	8.203						
CCV	Robert Lim	4/19/17	7:01	22.31	8.677	11.81	136.1	42	-	F	L

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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Curtis Mussen	4/18/17	7:16	16111D	11/2017	1000	1000	P	LAB
ICV	Curtis Mussen	4-18-17	7:17	16111D	11/2017	1000	997	P	LAB
CCV	Curtis Mussen	4-18-17	15:04	170310E	03/2018	100	103	P	LAB
CCV									

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.	Curtis Mussen	4/18/17	7:19	16111B	2/2018	7.0	7.00	-13	P	LAB
Calibr.	Curtis Mussen	4-18-17	7:21	16111A	11/2017	4.01	4.00	158	P	LAB
Calibr.	Curtis Mussen	4-18-17	7:23	16111C	5/2018	10.01	9.99	-181	P	LAB
ICV	Curtis Mussen	4-18-17	7:25	16111C	5/2018	10.01	9.89	425	P	LAB
CCV	Curtis Mussen	4-18-17	15:06	16111A	11/2017	4.01	3.88	166	P	LAB
CCV										

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU; mV pH7 Range 0 $\pm$ 50;

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

mV pH 10 Range -180 $\pm$ 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: RQ-2017-04-03-28

Event: Wakulla, Moriah, Wards, Caney

Customer: WQ-ASSESS

Project ID: SMP

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Central Lab Sample Submittal Form

Requester: Curtis Musson

Collected By: Curtis Musson Raymond Stuart

Field Report Prepared By: Raymond Stuart
Sampling Agency: FDEP

Location

Field ID: →

Moriah Creek < 100
meters upstr sam
Ft Newport F.d.

April 18, 2017

G1WAA0057_04182017

Moriah Creek 100
meters; upstream
of Newport Rd.

STORET ↓

G1WAA0057

Field ID: →

Wakulla River
Below Highway
98 Bridge

April 18, 2017

G1WAA0028_04182017

Wakulla River
Below Highway
98 Bridge

STORET ↓

G1WAA0028

Field ID: →

Caney Creek
Upstream of
US 90

April 18, 2017

G1WAA0014_04182017

Caney Creek
Upstream of
US 90

STORET ↓

G1WAA0014

☐ Comp
☒ Grab

Collection (comp begin or grab)
Date 4/18/17 Time 8:25am

Matrix (Salt, Fresh)

Diss. Oxygen
(mg/L) 7.57

Temp
(C) 18.54

pH 7.29

Sample Depth
(m) 0.05

Sp. Conductance
(umho/cm) 380

Salinity
(ppt) 0.18

Comments

Latitude (Decimal Degrees)
30.1857

Longitude (Decimal Degrees)
-84.1929

☐ Comp
☒ Grab

Collection (comp begin or grab)
Date 4/18/17 Time 9:13am

Matrix (Salt, Fresh)

Diss. Oxygen
(mg/L) 7.93

Temp
(C) 21.14

pH 7.84

Sample Depth
(m) 0.3

Sp. Conductance
(umho/cm) 417

Salinity
(ppt) 0.20

Comments

Latitude (Decimal Degrees)
30.17607

Longitude (Decimal Degrees)
-84.2429

☐ Comp
☒ Grab

Collection (comp begin or grab)
Date 4/18/17 Time 10:55am

Matrix (Salt, Fresh)

Diss. Oxygen
(mg/L) 12.21

Temp
(C) 19.27

pH 7.08

Sample Depth
(m) 0.05

Sp. Conductance
(umho/cm) 106

Salinity
(ppt) 0.05

Comments

Latitude (Decimal Degrees)
30.5325

Longitude (Decimal Degrees)
-83.9501

Relinquished By:

Date/Time

4/18/17 1:18pm

Number of Coolers

3

Received By:

Date/Time

Relinquished By:

Date/Time

Bottle
Group(s)

A

Bottle
Group(s)

A

B
C
D
E

Request Number: RQ-2017-04-03-28

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Central Lab Sample Submittal Form

Event: Wakulla, Moriah, Wards, Caney

Requester: Curtis Musson

Customer: WQ-ASSESS

Project ID: SMP

Field Report Prepared By:

Page 2 of 4

Collected By:

Sampling Agency: FDEP

Location:

Field ID: →

Wards Creek
upstream of
bridge at CR 259



04182017

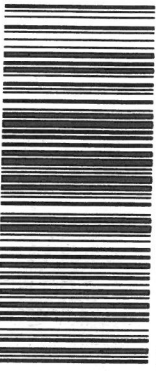
Wards Creek
upstream of
bridge at CR 259



04182017

Field ID: →

Caney Creek
Downstream
of 158A



04182017

Caney Creek
Downstream
of 158A



04182017

Location

Field ID

STORET #

Relinquished By:

☐ Comp ☒ Grab

Collection (comp begin or grab) Date 4/18/17 Time 11:25am

Matrix (Salt, Fresh) Diss. Oxygen (mg/L) 0.78

Temp (C) 20.40 pH 5.50

Salinity (ppt) 0.03

Comments No waste water tracers

Latitude (Decimal Degrees)

30.605000

Longitude (Decimal Degrees)

-83.843257

☐ Comp ☒ Grab

Collection (comp begin or grab) Date 4/18/17 Time 12:05pm

Matrix (Salt, Fresh) Diss. Oxygen (mg/L) 11.22

Temp (C) 20.33 pH 6.60

Salinity (ppt) 0.06

Comments

Latitude (Decimal Degrees)

30.52

Longitude (Decimal Degrees)

-83.94

☐ Comp ☒ Grab

Collection (comp begin or grab) Date

Matrix (Salt, Fresh) Diss. Oxygen (mg/L)

Temp (C) pH

Salinity (ppt) Comments

Latitude (Decimal Degrees)

Longitude (Decimal Degrees)

Eastern Central Date

Collection (comp begin or grab) Time

Sample Depts (m) 0.15

Sp. Conductance (umho/cm) 60

Bottle Group(s) C E

Eastern Central Date

Collection (comp begin or grab) Time

Sample Depts (m) 0.1

Sp. Conductance (umho/cm) 122

Bottle Group(s) B C D E

Eastern Central Date

Collection (comp begin or grab) Time

Sample Depts (m)

Sp. Conductance (umho/cm)

Bottle Group(s)

Group: A	Bottle Type:	P-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	ALKALINITY						
	TURBIDITY						
	W-CL-IC						
	W-COLOR						
	W-F						
	W-SO4-IC						
	W-TDS						
	W-TSS						
Group: A	Bottle Type:	BP-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	CHLSUITE-W						
Group: A	Bottle Type:	P-500ML	# of Bottles: 4	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	2
	W-NH3						
	W-NO2NO3						
	W-S-A-TP						
	W-TKN						
	W-TOC						
Group: A	Bottle Type:	P-125ML	# of Bottles: 4	Preservative:	ICE-FLTR	Enter Number of Bottles Sent to Lab	2
	W-PO4-F						
Group: B	Bottle Type:	P-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	ALKALINITY						
	TURBIDITY						
	W-CL-IC						
	W-COLOR						
	W-F						
	W-SO4-IC						
	W-TDS						
	W-TSS						
Group: B	Bottle Type:	BP-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	CHLSUITE-W						
Group: B	Bottle Type:	P-500ML	# of Bottles: 2	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	2
	W-ICP						
	W-ICPMS						

Group: B	Bottle Type: W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC	P-500ML	# of Bottles: 2	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	2
Group: B	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 2	Preservative: ICE-FLTR	Enter Number of Bottles Sent to Lab	2
Group: C	Bottle Type: ECOLI-18QT	P-250ML-WO-THI	# of Bottles: 3	Preservative: ICE	Enter Number of Bottles Sent to Lab	3
Group: D	Bottle Type: W-AHERB-AA W-SUC-AA-R W-UHERB-AA	BG-1L	# of Bottles: 3	Preservative: ICE	Enter Number of Bottles Sent to Lab	2
Group: E	Bottle Type: PCR-HF183	QPCR-P-250ML	# of Bottles: 6	Preservative: ICE	Enter Number of Bottles Sent to Lab	6

Cooler Packing Worksheet for Request: RQ-2017-04-03-28

Wakulla, Moriah, Wards, Caney

Ship Cooler On: 3/30/2017

Customer/Project: WQ-ASSESS/SMP

Assigned To: REYNOLDS_T

Requester: Curtis Musson

Priority: 3

850-248-8453
Division Of Water Facilities, FL DEP
2600 Blair Stone Rd.
Tallahassee, FL 32399-2400
Attn: curtis musson

Comments:

Group A: Freshwater Kit
Group B: Freshwater Kit With Metals
Group C: E. coli
Group D: Organics (Tracers)
Group E: PCR-HF183

1 - Case of sulfuric acid

No FedEx shipping labels needed, samples will be dropped off.

Requested Analyses:

Bottle Group: A

of Sites: 4

Container ID: P-1L

Qty: 4 Preservation: ICE

Lot # 00067304

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: 4 Preservation: ICE

Lot # 1191091

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 4 Preservation: ICE And H2SO4

Lot # 00067368

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: 4 Preservation: ICE-FLTR

Lot # 00065449

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-1L

Qty: 2 Preservation: ICE

Lot # 00067304

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: 2 Preservation: ICE

Lot # 1191091

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 2 Preservation: HNO3

Lot # 00067368

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

Container ID: P-500ML

Qty: 2 Preservation: ICE And H2SO4

Lot # 00067368

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: 2 Preservation: ICE-FLTR

Lot # 00065449

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group: C

of Sites: 3

Container ID: P-250ML-WO-THI

Qty: 3 Preservation: ICE

Lot # 417013

Description:

Analysis

ECOLI-18QT

Description

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

Bottle Group: D

of Sites: 3

Container ID: BG-1L

Qty: 3 Preservation: ICE

Lot # 00066798

Description: Brown Glass Bottle 1L

Affix BLUE dot to container.

Analysis

Description

W-AHERB-AA

Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS

W-SUC-AA-R

Analysis of sucralose in water matrices by HPLC/MS/MS

W-UHERB-AA

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 # L170130

Description:

Analysis

PCR-HF183

Description

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

Cooler Packed By: Tyler Reynolds

Date: 04/02/17

DEP Cooler ID #(s): 3 coolers

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle (1 per cooler)
- ☒ FedEx Bills, if applicable (1 per cooler)
- ☒ Plastic Bags
- ☒ Zip Ties

If Preservation Included:

ID Sulfuric Acid

ID _____

ID _____

ID _____

ID _____

Lot #

Lot #

Lot #

Lot #

Lot #

Ex 10/20/17

6302030

PLEASE RETURN ALL COOLERS FOR RQ-2017-04-03-28