



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: Lake Lafayette Drain 250 meters downstream of Weems Rd

Date: 9/20/2017

(mm/dd/yyyy)

STORET # G1WA0007

WBID: 756I

Latitude: 30.4544

(Decimal Degrees)

County: Leon

RQ - 2017-09-18-25

ORG ID: 21FLWQA

Longitude: -84.2204

(Decimal Degrees)

Receiving Body of Water: Lake Lafayette

Field ID: G1WA0007_9202017

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Curtis Musson					X	X	X	X	X
Ben Ralys						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	12:05	0.15	0.3	6.95	86.9	7.43	0.05	100	100	26.79
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	7163030	6/12/18	☒ <2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO3	7086060	3/27/18	☒ <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 ☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Ice ☐ Other			

Contains 1:1 Nitric Acid NA-7086060 EXP: 03/27/18 Warning! See SDS

Contains 1:1 Sulfuric Acid Lot No.: SA7163030 Expires: 06/12/18 See Safety Data Sheet (SDS)

Notes: 1-Kit C, Bacteria Tracers and PCR-GFD PCR-Filter & 1	Lake Lafayette Drain STORET ↓ 250 meters downstream of Weems Rd G1WA0007	Field ID: → Lake Lafayette Drain 250 meters downstream of Weems Rd Sept 20, 2017 G1WA0007_09202017
Signature: <i>Curtis Musson</i>	Date: 6-20-2017	

Field Parameters Entered into LIMS: *DT 9/21/17* (Initials/Date)

Date Migrated to STORET: (Initials/Date)

Field Parameters QC in LIMS: (Initials/Date)

Field Sheets Scanned/Saved: *DT 9/21/17* (Initials/Date)

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Not to be used if there is qualified data on this name
 PH

Meter Bio #2 RQ- 2017-08-07-20 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.	Curtis Musson	9/19/17	1622	22.8	8.611	8.61	100.0	53	—	PASS	LAB
ICV	Curtis Musson	9-19-17	1623	22.77	8.611	8.62	100.0	52	—	PASS	LAB
CCV	Curtis Musson	9-20-17	1307	26.22	8.084	8.12	100.5	52	—	PASS	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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Curtis Musson	9/19/17	1625	170310D	3/2018	1000	1000	PASS	LAB
ICV	Curtis Musson	9/19/17	1626	170310D	3/2018	1000	1000	PASS	LAB
CCV	Curtis Musson	9/20/17	1309	170614D	6/2018	100	104	PASS	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 Musson	9/19/17	1627	170310B	9/2018	7.0	7.00	34	PASS	LAB
Calibr.	Curtis Musson	9/19/17	1629	170614A	6/2018	4.01	4.01	206	PASS	LAB
Calibr.	Curtis Musson	9/19/17	1631	120310C	9/18	10.01	9.93	-116	PASS	LAB
ICV	Curtis Musson	9/19/17	1633	170614A	6/2018	4.01	3.81	213	PASS	LAB
CCV	Curtis Musson	9/20/17	1311	170614A	6/2018	4.01	3.86	211	PASS	LAB
CCV	Curtis Musson	9/20/17	1312	170310C	9/2018	10.01	9.50	—	PASS	LAB

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

Sand Pond, Sally Ward Spring, Eight Mile Pond
Customer: WAS-SECT
Project ID: SMP

Requester: Curtis Musson

Field Report Prepared By: Ben Reayls
Sampling Agency: FDEP

Collected By: Curtis Musson Ben Rahys

Black Creek upstream of Bloxxham Cutoff						STORET ↓ GIWA0023					
Field ID → Black Creek upstream of Bloxxham Cutoff Sept 20, 2017						GIWA0023_00002017					
						S					
Sard Pond Middle						STORET ↓ GIWA0044					
Field ID → Sand Pond Middle Sept 20, 2017						GIWA0044_00202017					
						ST					
Sally Ward Spring at Wakulla Park Dr.						STORET ↓ GIWA0021					
Field ID → Sally Ward Spring at Wakulla Park Dr. Sept 20, 2017						GIWA0021_00202017					
						ST					

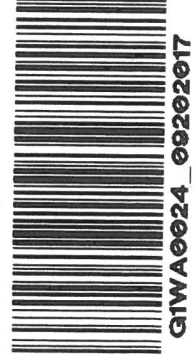
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Central Lab Sample Submittal Form

Request Number: 2017-09-18-25
Sand Pond, Sally Ward Spring, Eight Mile Pond
Customer: WAS-SECT
Project ID: SMP

Requester: Curtis Musson
Collected By: Curtis Musson Benabals

Field Report Prepared By: Ben Babals
Sampling Agency: FDEP

STC
Eight Mile Pond Middle
Field ID →
Eight Mile Pond Middle
Sept 20, 2017
G1WA0024_00202017



STC
Soapstone Branch
100 meters upstream
Field ID →
Soapstone Branch
Sept 20, 2017
G1WA0024_00202017

STC
Chicken Branch at Old Plank Rd
Field ID →
Chicken Branch at Old Plank Rd
Sept 20, 2017
G1WA0031_00202017



Collection (comp begin or grab)		Date		Time		Bottle Group(s)	
Matrix (Salt, Fresh)	Diss. Oxygen (mg/L)	pH	Sample Depts (m)	Sp. Conductance (umho/cm)	Temp (C)	Salinity (ppt)	Latitude (Decimal Degrees)
Fresh	3.40	7.45	0.3	88			-84.30273
26.66							
0.04							
30.32635							
NOT Collected							
Fresh	2.30	7.02	0.3	298			-84.1481
23.30							
0.14							
30.3261							

Relinquished By: Curtis Musson	Date/Time: 9-20-2017 / 12:48
Number of Coolers: 3	Received By: SR

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Central Lab Sample Submittal Form

Request Number: 2017-09-18-25

Sand Pond, Sally Ward Spring, Eight Mile Pond

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Collected By: Curtis Musson, Ben Ralys

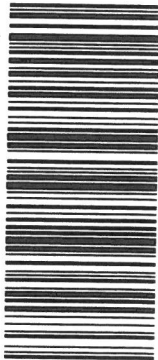
Field Report Prepared By: Ben Ralys
 Sampling Agency: FDEP

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Lake Lafayette Drain STORET ↓
250 meters
dowstream of
Weems Rd
G1WA0007



Field ID →
 Lake Lafayette
 Drain 250 meters
 downstream of
 Weems Rd
 Sept 20, 2017 **G1WA0007_00202017**



Godby Drainage STORET ↓
Ditch at
Progress Dr.
G1WA0001



Field ID →
 Godby Drainage
 Ditch at
 Progress Dr.
 Sept 20, 2017 **G1WA0001_00202017**



Location

Field ID

STORET #

☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>9/20/17</u> Time <u>12:05</u>	☒ Eastern ☐ Central	Collection (comp begin or grab) Date <u> </u> Time <u> </u>	Bottle Group(s) <u>A,B</u> <u>C,D</u> <u>F</u>
Matrix (Salt, <u>Fresh</u>)	Diss. Oxygen (mg/L) <u>6.95</u>	Sample Depts (m)	Sp. Conductance (umho/cm) <u>100</u>	
Temp (C) <u>26.79</u>	pH <u>7.43</u>			
Salinity (ppt) <u>0.05</u>	Comments			
Latitude (Decimal Degrees) <u>30.4544</u>		Longitude (Decimal Degrees) <u>-84.2204</u>		
☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>9/20/17</u> Time <u>10:25</u>	☒ Eastern ☐ Central	Collection (comp begin or grab) Date <u> </u> Time <u> </u>	Bottle Group(s) <u>A,C</u> <u>D,E</u>
Matrix (Salt, <u>Fresh</u>)	Diss. Oxygen (mg/L) <u>3.54</u>	Sample Depts (m)	Sp. Conductance (umho/cm) <u>138</u>	
Temp (C) <u>25.35</u>	pH <u>7.14</u>			
Salinity (ppt) <u>0.06</u>	Comments			
Latitude (Decimal Degrees) <u>30.444661</u>		Longitude (Decimal Degrees) <u>-84.344711</u>		
☐ Comp ☐ Grab	Collection (comp begin or grab) Date <u> </u> Time <u> </u>	☐ Eastern ☐ Central	Collection (comp begin or grab) Date <u> </u> Time <u> </u>	Bottle Group(s)
Matrix (Salt, Fresh)	Diss. Oxygen (mg/L)	Sample Depts (m)	Sp. Conductance (umho/cm)	
Temp (C)	pH			
Salinity (ppt)	Comments			
Latitude (Decimal Degrees)		Longitude (Decimal Degrees)		

Relinquished By:

Curtis Musson

Date/Time

9-20-2017 / 1225

Number of Coolers

3

Received By:

SR

Date/Time

9-20-2017 / 12:48

Cooler Packing Worksheet for Request: RQ-2017-09-18-25
Sans, Sally, 8 mile, chicken, Laffayette Drain, Godby, Black, Soapstone

Ship Cooler On: 9/7/2017
Customer/Project: WAS-SECT/SMP

Assigned To: REAVES_S
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: Metlas
Group C: E.coli
Group D: Tracers (A-HERB Short list)
Group E: PCR (FILTER & 183)
Group F: PCR (FILTER & GFD)

Requested Analyses:

Bottle Group: A

of Sites: 8

Container ID: P-1L

Qty: 8 Preservation: ICE

Lot #

00067591

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: 8 Preservation: ICE

Lot #

1199138

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 8 Preservation: ICE And H2SO4

Lot # 00068654

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: 8 Preservation: ICE-FLTR

Lot # 00068347

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: 1

Container ID: P-500ML

Qty: 1 Preservation: HNO3

Lot # 00068654

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 # L17048

Description:

Analysis

ECOLI-18QT

Description

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

Bottle Group: D

of Sites: 4

Container ID: BG-1L

Qty: 4 Preservation: ICE

Lot # 00068050

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: 3

Container ID: QPCR-P-250ML

Qty: 6 Preservation: ICE

Lot # 00067801

Description:

Analysis

PCR-FILTER

PUR-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 # 00067801

Description:

Analysis

PCR-FILTER

PCR-GFD

Description

Preparation of Samples by Filtration and held for qPCR Analysis

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

Cooler Packed By: SR Number of Coolers: 4 Date: 9-7-17

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-2017-09-18-25