



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

March 2017

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Data Qualified?

Yes / No

Location/STORET Station Name: Salem branch downstream of SR 159

Date: 10/10/2017

STORET # G1WA0053

WBID: 480

Latitude: _____

County: Gadsden RQ - 2017-10-09-23

ORG ID: 21FLWQA

Longitude: _____

Receiving Body of Water: Little River

Field ID: G1WA0053-10/10/2017

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment			
Curtis Musson					X	X	X	NA	☒ Sample Container	☐ Van Dorn	☐ Pole	
Ben Ralys				X	X	X			☐ 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												
Meter ID# <u>Bio #2</u>				Photos: Yes / <u>No</u>				Matrix: <u>Fresh</u> / Marine / DI				
								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 (umhos/cm)	Temp. (C°)		
<u>EST</u>	<u>10:15</u>	<u>0.3</u>	<u>0.4</u>	<u>6.32</u>	<u>78.7</u>	<u>7.51</u>	<u>0.08</u>	<u>VOB</u>	<u>177</u>	<u>26.51</u>		
CEN												

Biological Samples Collected: None HA SCI RPS Algae ID LVS LVI Other _____

SBIO ID Numbers: SBIO-ID: _____ RPS-ID: _____ Macrophyte-ID: _____ LIMS#: 1935394

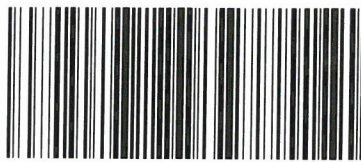
Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	☐ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☐ Ice ☐ H2SO4	<u>8A7233030</u>	<u>8/21/18</u>	☐ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <2
Filtered Nutrients	☐ W-PO4-F ☐ Field Filtered 0.45 µm Filter	☐ 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	☐ Ice			
	☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Other			

Notes:

Per-Filter
PCR-GFD

Field ID →
Salem Branch
downstream of
SR 159

Oct 10, 2017



G1WA0053 10102017

Salem Branch
downstream of
SR 159

STORET ↓



G1WA0053

Signature: _____

Date: 10/10/17

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)

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: Bio #2 RQ: 2017-10-09-16 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.	Curtis Musson	10/9/17	1541	22.87	8.598	8.60	100.0	52	~	P/F	L/F
ICV	Curtis Musson	10/9/17	1543	22.89	8.595	8.60	100.0	52	~	P/F	L/F
CCV	Curtis Musson	10/10/17	1541	24.37	8.356	8.59	104.7	53	~	P/F	L/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.	Curtis Musson	10/9/17	1545	170614 E	6/2018	1000	1000	P/F	L/F
ICV	Curtis Musson	10/9/17	1546	170614 E	6/2018	1000	1000	P/F	L/F
CCV	Curtis Musson	10/10/17	1543	170614 D	6/2018	100	105	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	10/9/17	1547	170310 B	9/18	7.0	7.00	44	P/F	L/F
Calibr.	Curtis Musson	10/9/17	1551	170614 A	6/18	4.01	4.01	215	P/F	L/F
Calibr.	Curtis Musson	10/9/17	1552	170310 C	9/18	10.01	9.94	-107	P/F	L/F
ICV	Curtis Musson	10/9/17	1554	170614 A	6/18	4.01	3.82	222	P/F	L/F
CCV	Curtis Musson	10/10/17	1544	170310 C	9/18	10.01	10.06	-109	P/F	L/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: RA-2017-10-09-23

Swamp, Salem, Tallavanna, Arrowhead, AJ, Harbinwoo

Customer: WAS-SECT

Project ID: SMP

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Central Lab Sample Submittal Form

Field Report Prepared By: CURTIS MUSSON

Sampling Agency: FDEP

Page 1 of 5

Collected By: CURTIS MUSSON, Ben Ralls

Request Number: RA-2017-10-09-23

Swamp, Salem, Tallavanna, Arrowhead, AJ, Harbinwoo

Customer: WAS-SECT

Project ID: SMP

Field ID: →

Aj Henry Park Pond Middle

Field ID: →

Aj Henry Park Pond Middle

STOI

Field ID: →

Lake Arrowhead at Boat Dock At Turtle Crk Ln Near Outlet

Field ID: →

Lake Arrowhead at Boat Dock At Turtle Crk Ln Near Outlet

ST

Field ID: →

Tallavanna Lake Middle

Field ID: →

Tallavanna Lake Middle

S

Collection (comp begin or grab)

Comp

Grab

Matrix

Fresh

Date

10/10/17

Time

8:27

Diss. Oxygen (mg/L)

8.18

pH

7.86

Sample Depts (m)

0.3

Sp. Conductance (umho/cm)

70

Temp (C)

27.36

Salinity (ppt)

0.03

Latitude (Decimal Degrees)

Longitude (Decimal Degrees)

Collection (comp begin or grab)

Comp

Grab

Matrix

Fresh

Date

10/10/17

Time

7:50

Diss. Oxygen (mg/L)

9.85

pH

9.33

Sample Depts (m)

0.3

Sp. Conductance (umho/cm)

75

Temp (C)

27.81

Salinity (ppt)

0.03

Latitude (Decimal Degrees)

Longitude (Decimal Degrees)

Collection (comp begin or grab)

Comp

Grab

Matrix

Fresh

Date

10/10/17

Time

9:30

Diss. Oxygen (mg/L)

9.18

pH

9.38

Sample Depts (m)

0.3

Sp. Conductance (umho/cm)

236

Temp (C)

27.34

Salinity (ppt)

0.11

Latitude (Decimal Degrees)

Longitude (Decimal Degrees)

Eastern

Central

Date

Time

Bottle Group(s)

A

Eastern

Central

Date

Time

Bottle Group(s)

A

Eastern

Central

Date

Time

Bottle Group(s)

A, B, C

Eastern

Central

Date

Time

Bottle Group(s)

G, H

Relinquished By: CURTIS MUSSON

Date/Time

10/10/17

Number of Coolers

5

Received By: J.R.

Date/Time

10/10/17

Request Number: RD-2017-10-09-23 Page 2 of 5

Florida Department of Environmental Protection
Central Lab Sample Submittal Form

Swamp, Salem, Talavanna, Arrowhead, AJ, Harbinwood Requester: Curtis Musson Field Report Prepared By: Curtis Musson

Customer: WAS-SECT Sampling Agency: FDEP

Project ID: SMP Collected By: Curtis Musson, Ben Laix

Locat: **Swamp Creek upstream of Railroad** STORET ↓  **G1WA0052_10102017**

Field ID → **Swamp Creek upstream of Railroad**

ST **Oct 10, 2017**

Matrix ☒ Grab ☐ Comp ☐	Date 10/10/17 Time 1040	Collection (comp begin or grab)	Eastern ☒ Central ☐	Date	Time	Bottle Group(s)
Matrix Fresh	Diss. Oxygen (mg/L) 6.75					A, C
Temp (C) 24.64	pH 6.90					D, E
Salinity (ppt) 0.04	Sample Depts (m) 0.3					
Latitude (Decimal Degrees)		Longitude (Decimal Degrees)				

Loc: **Salem Branch downstream of SR 159** STORET ↓  **G1WA0053_10102017**

Field ID → **Salem Branch downstream of SR 159**

FI **Oct 10, 2017**

Matrix ☒ Grab ☐ Comp ☐	Date 10/10/17 Time 1015	Collection (comp begin or grab)	Eastern ☒ Central ☐	Date	Time	Bottle Group(s)
Matrix Fresh	Diss. Oxygen (mg/L) 6.32					C, D, F
Temp (C) 26.51	pH 7.51					
Salinity (ppt) 0.08	Sample Depts (m) 0.3					
Latitude (Decimal Degrees)		Longitude (Decimal Degrees)				

Loc: **Harbinwood Estates Drain** STORET ↓  **G1WA0034_10102017**

Field ID → **Harbinwood Estates Drain**

FI **Oct 10, 2017**

Matrix ☒ Grab ☐ Comp ☐	Date 10/10/17 Time 1130	Collection (comp begin or grab)	Eastern ☒ Central ☐	Date	Time	Bottle Group(s)
Matrix Fresh	Diss. Oxygen (mg/L) 3.66					A, B, C, D
Temp (C) 27.7	pH 7.28					E
Salinity (ppt) 0.06	Sample Depts (m) 0.1					
Latitude (Decimal Degrees)		Longitude (Decimal Degrees)				

Relinquished By: Curtis Musson Date/Time: 1-10/17 1355

Received By: A. J. Date/Time: 11/10/17 2:08

Number of Coolers: 5

99-2017-10-09-23

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Central Lab Sample Submittal Form

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Central Lab Sample Submittal Form

Swamp, Salem, Talavanna, Arrowhead, AJ, Harbinwoo Requester: Curtis Musson
Customer: WAS-SECT
Project ID: SMP

Swamp, Salem, Talavanna, Arrowhead, AJ, Harbinwoo Requester: Curtis Musson
Customer: WAS-SECT
Project ID: SMP

Swamp, Salem, Talavanna, Arrowhead, AJ, Harbinwoo Requester: Curtis Musson
Customer: WAS-SECT
Project ID: SMP

Collected By: Curtis Musson, Ben Ralys

Loc	STRET	File	STO	Loc	STRET	File	STO	Loc	STRET	File	STO			
Megginnis Arm Run Downstream of Sharer		G1WA0033	Field ID → Megginnis Arm Run Downstream of Sharer	Oct 10, 2017	Godby Drainage Ditch at Progress Dr.		G1WA0061	Field ID → Godby Drainage Ditch at Progress Dr.	Oct 10, 2017	Central Drainage Ditch downstream of Orange Ave.		G1WA0026	Field ID → Central Drainage Ditch downstream of Orange Ave.	Oct 10, 2017

Relinquished By: <i>Wesley</i>	Date/Time <i>10/10/17 3:55</i>	Number of Coolers <i>5</i>	Received By: <i>G.D.</i>	Date/Time <i>10/10/17 2:08</i>
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Group: A	Bottle Type: ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS	P-1L	# of Bottles: 8	Preservative:	ICE	Enter Number of Bottles Sent to Lab	8
Group: A	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 8	Preservative:	ICE	Enter Number of Bottles Sent to Lab	8
Group: A	Bottle Type: W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC	P-500ML	# of Bottles: 8	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	8
Group: A	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 8	Preservative:	ICE-FLTR	Enter Number of Bottles Sent to Lab	8
Group: B	Bottle Type: W-ICP W-ICPMS	P-500ML	# of Bottles: 1 <i>2 Added</i>	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	3
Group: C	Bottle Type: ECOLI-18QT	P-250ML-WO-THI	# of Bottles: 7	Preservative:	ICE	Enter Number of Bottles Sent to Lab	7
Group: D	Bottle Type: W-AHERB-AA W-SUC-AA-R W-UHERB-AA	BG-1L	# of Bottles: 5	Preservative:	ICE	Enter Number of Bottles Sent to Lab	5
Group: E	Bottle Type: PCR-FILTER PCR-HF183	QPCR-P-250ML	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
Group: F	Bottle Type: PCR-FILTER	QPCR-P-250ML	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2

Group: F	Bottle Type: PCR-GFD	QPCR-P-250ML	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
Group: G	Bottle Type: PCR-FILTER	QPCR-P-250ML	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	6
Group: H	Bottle Type: W-AHERB-AA W-GLYPH W-PYR-AA-R W-SUC-AA-R W-UHERB-AA	BG-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
Group: H	Bottle Type: W-CT-CIR W-PCL-SQ-R	BG-500ML	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	6
Group: H	Bottle Type: W-PSNP-TQ	BG-1L	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	6

Cooler Packing Worksheet for Request: RQ-2017-10-09-23
SWamp, Salem, Talavanna, Arrowhead, AJ, Harbinwood, Meginnis, Godby, Central

Ship Cooler On: 10/3/2017
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: Nutrients, CHLA, Physical Aggregates
Group B: Metals
Group C: Microbiology (Bacteria)
Group D: Organics (Wastewater Tracers) AHERB Short List
Group E: PCR (HF183, FILTER)
Group F: PCR (GFD, FILTER)
Group G: PCR (FILTER)
Group H: Pesticides AHERB Long List

Requested Analyses:

Bottle Group: A

of Sites: 8

Container ID: P-1L

Qty: 8 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: 8 Preservation: ICE

Lot # 1208913

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: BG-1L

Qty: 5 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: 2

Container ID: QPCR-P-250ML

Qty: 4 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

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

Bottle Group: G

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: H

of Sites: 2