



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2018

Data Qualified?

Yes / No

WIN Station Name: Salem Branch Downstream of SR 159

Date: 1/10/2018

WIN/ Field ID: G1WA0053

WBID: 480

Latitude: 30.63082

(mm/dd/yyyy)

County: Gadsden

ORG ID: 21FLWQA

Longitude: -84.43155

(Decimal Degrees)

Receiving Body of Water: Little River

RQ-2018- 01-08-11

(Decimal Degrees)

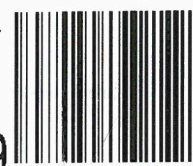
Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment				
Ben Ralys							X				☒ Sample Container	☐ Van Dorn	☐ Pole		
Curtis Musson						X		X	NA		☐ Carboy	☒ Syringe			
											☐ Dipper	☐ Other			
											Depth Measured with <u>Motor Stick</u>				
											Equipment ID				
											Collection Method				
											☒ Wading	☐ Canoe/Kayak			
											☐ From Shore	☐ Electric Motor			
											☐ Other	☐ Gasoline Motor			
Water Level: Dry/ Pooled/ Low / <u>Normal</u> / High / Flooded						Meter ID# Biology #2			Matrix: <u>Fresh</u> Marine / DI						
Photos: <u>Yes</u> / No						Flow: No Flow / Intestinal / Flowing / NA			Tide: Rising/ Falling/ Slack <u>NA</u>			Tide Times: High <u>NA</u> Low <u>NA</u>			
Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPT)	Sp COND (µmhos/cm)	Temp. (C°)					
EST	10:55	0.3	0.15	VOB	9.03	85.9	7.06	0.07	153	13.2					
CEN															
Biological Samples Collected: <u>None</u> HA SCI RPS Algae ID LVS LVI Other:															
SBIO ID Numbers: SBIO-ID: HA-ID: RPS-ID: Macrophyte-ID: LIMS#:															
Parameter Suite		Parameter Methods					Preservation		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-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					☒ Ice								
Molecular		☒ PCR-FILTER ☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-GFD					☒ Ice								
Tracers		☒ W-SUC-AA-R ☒ W-UHERB-AA ☒ W-AHERB-AA					☒ Ice								
Pesticides		☐ W-PSNP-TQ ☐ W-UHERB-AA ☐ W-AHERB-AA ☐ W-CARB-AA ☐ W-PCL-SQ-R ☐ W-PYR-AA-R ☐ W-GLYPH ☐ W-SUC-AA-R					☐ Ice ☐ Other								

Notes:

Bacteria
Tracers, Markers

WIN ID / Field ID →

Salem Branch
downstream of SR 159



G1WA0053

Signature: Curtis Musson

Date: 1-10-18

Enter Field Parameters, Verify Station ID In LIMS DMT:

QC Station ID, Field Parameters In LIMS DMT:

Scan/Save Field Sheets cm 2/21/18

Migrate Data to WIN: (Initials/Date)

Verify Data In WIN: (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 page.

Meter ID: Bio #2 RQ: 2018-01-08-01 Project: SMD

- 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 Mussen	1-10-18	657	20.82	8.950	8.95	100.0	54	-	☒ P / ☐ F	☐ L / ☐ F
ICV	Curtis Mussen	1-10-18	658	20.80	8.950	8.95	100.0	53	-	☒ P / ☐ F	☐ L / ☐ F
CCV	Curtis Mussen	1-10-18	1340	22.35	8.693	8.78	101.0	54	-	☒ 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 Mussen	1-10-18	700	171005D	10/2018	1000	1000	☒ P / ☐ F	☐ L / ☐ F
ICV	Curtis Mussen	1-10-18	701	171005D	10/2018	1000	1000	☒ P / ☐ F	☐ L / ☐ F
CCV	Curtis Mussen	1-10-18	1342	171005E	10/2018	100	103	☒ 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 Mussen	1-10-18	704	170614B	12/2018	7.0	7.00	24	☒ P / ☐ F	☐ L / ☐ F
Calibr.	Curtis Mussen	1-10-18	705	171005A	10/2018	4.01	4.01	186	☒ P / ☐ F	☐ L / ☐ F
Calibr.	Curtis Mussen	1-10-18	708	171005C	4/2018	10.01	9.98	-131	☒ P / ☐ F	☐ L / ☐ F
ICV	Curtis Mussen	1-10-18	710	171005A	10/2018	4.01	4.01	185	☒ P / ☐ F	☐ L / ☐ F
CCV	Curtis Mussen	1-10-18	1344	171005C	4/2018	10.01	10.17	-141	☒ 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	Curtis Mussen	1-10-18	702	0.000	0.000	☒ 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:

Sand, Black, 8, AJ, Harbinwood, Swamp, Salem

Customer: WAS-SECT

Requester: Curtis Musson

Field Report Prepared By:

Project ID: SMP

Collected By:

Curtis Masson, Ben Raks

Location	WIN ID / Field ID → Sand Pond Middle		Barcode G1WA00044		Collection (comp begin or grab) Date 1/10/18 Time 9:20		Composite end Date — Time —		Bottle Group(s) (See pg 2) A, C
Field ID					Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 10.26		Total Res. Chlorine —
STORET #					Temp (C) 12.22 pH 5.19		Sample Depth 0.3		Sp. Conductance (umho/cm) 15
Latitude	30.334	dd dms	Longitude	-84.387	dd dms	Salinity (ppt) 0.01			
Location	WIN ID / Field ID → Freeman Creek upstream of SR 267 (Bloxham Cutoff)		Barcode G1WA00010		Collection (comp begin or grab) Date 1/10/18 Time 9:59		Composite end Date — Time —		Bottle Group(s) A, B, C
Field ID					Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 8.92		Total Res. Chlorine —
STORET #					Temp (C) 13.90 pH 5.22		Sample Depth 0.15		Sp. Conductance (umho/cm) 24
Latitude	30.3887	dd dms	Longitude	-84.5844	dd dms	Salinity (ppt) 0.01			
Location	Field/WIN ID → Blac < Creek upstream of Bloxham Cutoff		Barcode G1WA00023		Collection (comp begin or grab) Date 1/10/18 Time 8:50		Composite end Date — Time —		Bottle Group(s) A, C
Field ID					Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 8.94		Total Res. Chlorine —
STORET #					Temp (C) 12.20 pH 5.96		Sample Depth 0.15		Sp. Conductance (umho/cm) 63
Latitude	30.27792	dd dms	Longitude	-84.3858	dd dms	Salinity (ppt) 0.03			
Location	WIN ID / Field ID → Eight Mile Pond Middle		Barcode G1WA00024		Collection (comp begin or grab) Date 1/10/18 Time 8:10		Composite end Date — Time —		Bottle Group(s) A, C, D, E
Field ID					Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 7.42		Total Res. Chlorine —
STORET #					Temp (C) 15.87 pH 6.03		Sample Depth 0.1		Sp. Conductance (umho/cm) 69
Latitude	30.32635	dd dms	Longitude	-84.30273	dd dms	Salinity (ppt) 0.03			

Relinquished By: <i>Cuevas</i>	Date/Time 1/10/2016/1321	Shipping Method	Number of Coolers Shipped: 3	Received By: SK	Date/Time 1-10-18/1:22
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Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Collected By: Curtis Musson, Ben Rabals

Field Report Prepared By: Curtis Musson, Ben Rabals

Sampling Agency: FDEP

Location	WIN ID / Field ID	Latitude	Longitude	Collection (comp begin or grab)	Matrix (type, e.g., Salt, Fresh, etc)	pH	Temp (C)	Salinity (ppt)	Diss. Oxygen	Total Res. Chlorine	Sp. Conductance	Bottle Group(s)
Not collected	Meggin's Arm Run	30.4804	-84.2982	Comp Grab	Fresh	7.28	14.99	0.06	10.34	137		A, C, D, E
STORET #	Downstream of Shafter											F, G
Location	WIN ID / Field ID	Latitude	Longitude	Collection (comp begin or grab)	Matrix (type, e.g., Salt, Fresh, etc)	pH	Temp (C)	Salinity (ppt)	Diss. Oxygen	Total Res. Chlorine	Sp. Conductance	Bottle Group(s)
Harbinwood		30.5193	-84.3357	Comp Grab	Fresh	7.28	14.99	0.06	10.34	137		A, B, C, D, F
STORET #	Estates Drain											
Location	WIN ID / Field ID	Latitude	Longitude	Collection (comp begin or grab)	Matrix (type, e.g., Salt, Fresh, etc)	pH	Temp (C)	Salinity (ppt)	Diss. Oxygen	Total Res. Chlorine	Sp. Conductance	Bottle Group(s)
Salem Branch		30.63082	-84.43155	Comp Grab	Fresh	7.06	13.12	0.07	9.03	153		C, F, D
STORET #	downtown of SR 159											
Location	WIN ID / Field ID	Latitude	Longitude	Collection (comp begin or grab)	Matrix (type, e.g., Salt, Fresh, etc)	pH	Temp (C)	Salinity (ppt)	Diss. Oxygen	Total Res. Chlorine	Sp. Conductance	Bottle Group(s)
Swamp Creek		30.663	-84.448	Comp Grab	Fresh	7.11	11.38	0.03	10.68	69		A, C, D, E
STORET #	Upstream of Railroad											

Relinquished By: Curtis Musson	Date/Time: 01/10/2018 1321	Shipping Method: Drop off	Number of Coolers Shipped: 3	Received By: SR	Date/Time: 1-10-18/122
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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: 7	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>6</u>
Group: A	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 7	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>6</u>
Group: A	Bottle Type: W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC	P-500ML	# of Bottles: 7	Preservative: ICE And H2SO4		Enter Number of Bottles Sent to Lab	<u>6</u>
Group: A	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 7	Preservative: FILTER-ICE		Enter Number of Bottles Sent to Lab	<u>6</u>
Group: B	Bottle Type: W-ICP W-ICPMS	P-500ML	# of Bottles: 2	Preservative: HNO3		Enter Number of Bottles Sent to Lab	<u>2</u>
Group: C	Bottle Type: ECOLI-18QT	P-250ML-WO-THI	# of Bottles: 8	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>7</u>
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	<u>4</u>
Group: E	Bottle Type: PCR-FILTER PCR-HF183	QPCR-P-250ML	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>4</u>
Group: F	Bottle Type: PCR-FILTER	QPCR-P-250ML	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>5</u>

Cooler Packing Worksheet for Request: RQ-2018-01-08-11**Sand, Black, 8, AJ, Harbinwood, Swamp, Salem****Ship Cooler On: 1/2/2018****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)

Group E: PCR HF183, FILTER

Group F: PCR FILTER

Requested Analyses:**Bottle Group: A****# of Sites: 7****Container ID: P-1L****Qty: 7 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

DescriptionAlkalinity 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: 7 Preservation: ICE****Lot # 1200289****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 # 00069604

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 # 00066780

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: 3

Container ID: QPCR-P-250ML

Qty: 6 Preservation: ICE

Lot # 00066780

Description:

Analysis

PCR-FILTER

Description

Preparation of Samples by Filtration and held for qPCR Analysis

Cooler Packed By: CS

Number of Coolers: 4

Date: 12/29/17

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-2018-01-08-11