



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2018

Data Qualified?

Yes / No

WIN Station Name: Freeman Creek upstream of SR 267 (Bloxxham Cutoff)

Date: 1/10/2018

WIN/ Field ID: G1WA0010

WBID: 954

Latitude: 30.3887

(mm/dd/yyyy)

County: Leon

ORG ID: 21FLWQA

Longitude: -84.5844

(Decimal Degrees)

Receiving Body of Water: Lake Talquin

RQ-2018- 01-08-11

(Decimal Degrees)

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Ben Ralys							X	X		
Curtis Musson						X		X	X	X

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☒ Syringe	
☐ Dipper	☐ Other	
Depth Measured with <u>Secchi Disk Line</u>		
Equipment ID		

Collection Method		
☒ Wading	☐ Canoe/Kayak	
☐ From Shore	☐ Electric Motor	
☐ Other	☐ Gasoline Motor	

Water Level: Dry/ Pooled/ Low / Normal / High / Flooded

Meter ID# Biology #2

Matrix: Fresh / Marine / DI

Photos: Yes / No

Flow: No Flow / Intestinal / Flowing / NA

Tide: Rising/ Falling/ Slack/ NA

Tide Times: High NA Low NA

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°)
<u>EST</u>	<u>9:59</u>	<u>0.3</u>	<u>0.15</u>	<u>0.08</u>	<u>8.92</u>	<u>86.0</u>	<u>5.22</u>	<u>0.01</u>	<u>24</u>	<u>13.90</u>
CEN										

Biological Samples Collected: None 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	<u>7233030</u>	<u>8/21/18</u>	☒ <2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO3	<u>7261120</u>	<u>9/18/18</u>	☒ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice	<u>10827054</u>		
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:

Kit-C, Bacteria

WIN ID / Field ID →

Freeman Creek upstream
of SR 267 (Bloxxham Cutoff)

G1WA0010

Signature:

Date:

Enter Field Parameters, Verify Station ID in LIMS DMT:

(Initials/Date)

QC Station ID, Field Parameters in LIMS DMT:

(Initials/Date)

Scan/Save Field Sheets

(Initials/Date)

Migrate Data to WIN:

(Initials/Date)

Verify Data in WIN:

(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: 2018-01-08-01 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 Mussen	1-10-18	657	20.82	8.950	8.95	100.0	54	-	☒ F	☒ F
ICV	Curtis Mussen	1-10-18	658	20.80	8.950	8.95	100.0	53	-	☒ F	☒ F
CCV	Curtis Mussen	1-10-18	1340	22.35	8.693	8.78	101.0	54	-	☒ F	☒ 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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Curtis Mussen	1-10-18	700	171005D	10/2018	1000	1000	☒ F	☒ F
ICV	Curtis Mussen	1-10-18	701	171005D	10/2018	1000	1000	☒ F	☒ F
CCV	Curtis Mussen	1-10-18	1342	171005E	10/2018	100	103	☒ F	☒ 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	☒ F	☒ F
Calibr.	Curtis Mussen	1-10-18	705	171005A	10/2018	4.01	4.01	186	☒ F	☒ F
Calibr.	Curtis Mussen	1-10-18	708	171005C	4/2018	10.01	9.98	-131	☒ F	☒ F
ICV	Curtis Mussen	1-10-18	710	171005A	10/2018	4.01	4.01	185	☒ F	☒ F
CCV	Curtis Mussen	1-10-18	1344	171005C	4/2018	10.01	10.17	-141	☒ F	☒ 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	☒ F	☒ 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:

Curtis Musson Ben Rabbs

Project ID: SMP

Collected By:

Curtis Masson, Ben Raks

Sampling Agency:

FDEP

Location	WIN ID / Field ID →		Barcode		Collection (comp begin or Grab)		Composite end		Bottle Group(s)	
Field ID	Sand Pond		G1WA00044		Date 11/10/18		Date		(See pg 2)	
STORET #	Midcle				Fresh		Diss. Oxygen 10.26		A, C	
Latitude	30.334		Longitude ~ 84.387		pH 5.19		Sample Depth 0.3		15	
Location	WIN ID / Field ID →		Barcode		Collection (comp begin or Grab)		Composite end		Bottle Group(s)	
Field ID	Freeman Creek upstream		G1WA00010		Date 11/10/18		Date		A, B, C	
STORET #	of SR 267 (Bloxham Cutoff)				Fresh		Diss. Oxygen 8.92			
Latitude	30.3887		Longitude - 84.5844		pH 5.22		Sample Depth 0.15		24	
Location	Field/WIN ID →		Barcode		Collection (comp begin or Grab)		Composite end		Bottle Group(s)	
Field ID	Blac Creek		G1WA00023		Date 11/10/18		Date		A, C	
STORET #	upstream of Bloxham Cutoff				Fresh		Diss. Oxygen 8.94			
Latitude	30.27792		Longitude - 84.3858		pH 5.96		Sample Depth 0.15		63	
Location	WIN ID / Field ID →		Barcode		Collection (comp begin or Grab)		Composite end		Bottle Group(s)	
Field ID	Eight Mile		G1WA00024		Date 11/10/18		Date		A, C, D	
STORET #	Pond Middle				Fresh		Diss. Oxygen 7.42		E	
Latitude	30.32635		Longitude - 84.30273		pH 6.03		Sample Depth 0.1		69	

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
<i>Wendy</i>	1/10/2018	1321	3	<i>SK</i>	1-10-18 / 1:22

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: WAS-SECT

Requester: Curtis Musson

Field Report Prepared By: Curtis Musson, Ben Rabals

Project ID: SMP

Collected By: Curtis Musson, Ben Rabals

Sampling Agency: FDEP

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

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

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: 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