



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: Wilson Mill Creek upstream of SR275 SR274

Date: 04/03/2019

WIN/ Field ID: G2WA0020

WBID: 512

Latitude: 30.5777

(mm/dd/yyyy)

County: Calhoun

ORG ID: 21FLWQA

Longitude: -85.0591

(Decimal Degrees)

Receiving Body of Water: Graves Creek

RQ- 2019-04-01-10

(Decimal Degrees)

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment				
Jason Storrs									☒ Sample Container	☐ Van Dorn	☐ Pole		
Avril Woods-McGrath									☐ Carboy	☒ Syringe			
Blake Spencer									☐ Dipper	☐ Other			
									Depth Measured with VST Pro DSS				
									Equipment ID				
Water Level: Dry/ Pooled/ Low Normal / High / Flooded									Meter ID# PRO DSS 155075			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°)			
EST	1305	0.3	0.15	VOB	9.91	103.4	6.13	0.03	75.1	17.4			
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#: 2075065			
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		SA8344070		12/10/19		☒ <2	
Metals		☒ W-ICPMS ☒ W-ICP				☒ Ice ☒ HNO3		NA8344080		12/10/19		☒ <2	
Filtered Nutrients		☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter				☒ Ice		10827054					
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-BR-IC / ☐ 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-BacR ☐ PCR-GULL2 ☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD				☐ Ice							
Tracers		☐ W-E8321-DI ☐ W-E8321-MS				☐ Ice							
Pesticides		☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI ☐ W-PCL-SQ-R ☐ WE8321-MS ☐ W-CARB-AA				☐ Ice							
Phytoplankton		☐ DTY-QN-C ☐ PKD-QN-C				☐ Ice							

Notes:

Nutrients
E. Coli
Metals

Signature:

WIN ID /
FILED ID

G2WA0020

Location

Wilson Mill Creek Upstream of 274

Date:

04/03/2019

LIMS EVENT ID: WAS-SECT-2019-04-03-01

WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT: 4/23/19

QC Station ID, Field Parameters In LIMS DMT: 4/30/19

Scan/Save Field Sheets

Migrate Data to WIN:

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 are qualified data on this page.

Meter ID: **PRO DSS 185104543**

RQ- **2019-03-26-25**
2019-04-01-10

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.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification _____

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro- meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Blake Spencer	4/3/19	0725	20.2	763.9	9.056	9.12	100.9	—	—	(P) F	(L) F
ICV	Blake Spencer	4/3/19	0726	20.3	764.0	9.039	9.09	100.7	—	—	(P) F	(L) F
CCV	Blake Spencer	4/3/19	1548	20.3	764.3	9.039	9.18	101.6	—	—	(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 (Pro DSS 0.75 to 1.50); 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.	Blake Spencer	4/3/19	0731	180621C	07/2019	1000	1000	(P) F	(L) F
ICV	Blake Spencer	4/3/19	0734	1805P81	05/2020	100	101.7	(P) F	(L) F
CCV	Blake Spencer	4/3/19	1551	180621C	07/2019	1000	993	(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	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Blake Spencer	4/3/19	0740	180403C	10/2019	7.02	20.2	6.98	-21.8	(P) F	(L) F
Calibr.	Blake Spencer	4/3/19	0743	180621D	07/2019	4.00	20.4	4.00	153.1	(P) F	(L) F
Calibr.	Blake Spencer	4/3/19	0746	180621F	01/2020	10.05	20.1	10.05	-190.3	(P) F	(L) F
ICV	Blake Spencer	4/3/19	0748	180621F	01/2020	10.05	20.1	10.03	-190.3	(P) F	(L) F
CCV	Blake Spencer	4/3/19	1555	180621D	07/2019	4.00	20.2	4.10	146.1	(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)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: _____

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: _____; Date of last 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	Blake Spencer	4/3/19	0750	0.00	0.00	(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:

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Field Report Prepared By: Blake SpencerCollected By: Blake Spencer + Jason StarksSampling Agency: FDEP

WIN ID / FILED ID →  G2WA0020		☐ Comp ☒ Grab		Collection (comp begin or grab) Date <u>4/3/2019</u> Time <u>1305</u>		☒ Eastern ☐ Central		Composite end Date _____ Time _____		Bottle Group(s) (See pg 2)	
Location  Willson Mill Creek Upstream of 274		Matrix (type, e.g., Salt, Fresh, etc) <u>Fresh</u>		Diss. Oxygen <u>103.4</u>		☐ mg/L ☒ % sat		Total Res. Chlorine (mg/L) <u>—</u>		A	
Latitude <u>30.5777</u> ☒ dd ☐ dms		Longitude <u>-85.0591</u> ☒ dd ☐ dms		Temp (C) <u>17.4</u> pH <u>6.13</u>		Sample Depth <u>0.15</u> ☐ ft ☒ m		Sp. Conductance (umho/cm) <u>75.1</u>			
Location		☐ Comp ☐ Grab		Collection (comp begin or grab) Date _____ Time _____		☐ Eastern ☐ Central		Composite end Date _____ Time _____		Bottle Group(s)	
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen ☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)					
WIN/STORET #		Temp (C)		pH		Sample Depth ☐ ft ☐ m		Sp. Conductance (umho/cm)			
Latitude ☐ dd ☐ dms		Longitude ☐ dd ☐ dms		Salinity (ppt) ☐ ppt		Comments					
Location		☐ Comp ☐ Grab		Collection (comp begin or grab) Date _____ Time _____		☐ Eastern ☐ Central		Composite end Date _____ Time _____		Bottle Group(s)	
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen ☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)					
WIN/STORET #		Temp (C)		pH		Sample Depth ☐ ft ☐ m		Sp. Conductance (umho/cm)			
Latitude ☐ dd ☐ dms		Longitude ☐ dd ☐ dms		Salinity (ppt) ☐ ppt		Comments					
Location		☐ Comp ☐ Grab		Collection (comp begin or grab) Date _____ Time _____		☐ Eastern ☐ Central		Composite end Date _____ Time _____		Bottle Group(s)	
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen ☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)					
WIN/STORET #		Temp (C)		pH		Sample Depth ☐ ft ☐ m		Sp. Conductance (umho/cm)			
Latitude ☐ dd ☐ dms		Longitude ☐ dd ☐ dms		Salinity (ppt) ☐ ppt		Comments					
Location		☐ Comp ☐ Grab		Collection (comp begin or grab) Date _____ Time _____		☐ Eastern ☐ Central		Composite end Date _____ Time _____		Bottle Group(s)	
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen ☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)					
WIN/STORET #		Temp (C)		pH		Sample Depth ☐ ft ☐ m		Sp. Conductance (umho/cm)			
Latitude ☐ dd ☐ dms		Longitude ☐ dd ☐ dms		Salinity (ppt) ☐ ppt		Comments					

Relinquished By: <u>Blake Spencer</u>	Date/Time: <u>4/3/19 1525</u>	Shipping Method: <u>Hand Delivered</u>	Number of Coolers Shipped: <u>3</u>	Received By: <u>HK</u>	Date/Time: <u>4.3.19 / 15:25</u>
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Cooler Packing Worksheet for Request: RQ-2019-04-01-10

Willson Mill Creek

Ship Cooler On: 3/28/2019
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:

Group A: Nutrients, Metals, E.coli

Packing Notes:

No FedEx labels

No Trash Bags

1 - case nitric acid / 2 sets of labels

Requested Analyses:

Bottle Group: A

of Sites: 1

Container ID: P-1L

Qty: 1 Preservation: ICE

Lot # 00073854

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 using a maximum of 250 mL of sample

Container ID: BP-1L

Qty: 1 Preservation: ICE

Lot # 1248230

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-250ML-WO-THI

Qty: 1 Preservation: ICE

Lot # 6M01-TN

Description: 250 ml Sterilized no tablet

Analysis

ECOLI-18QT

Description

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

Container ID: P-500ML

Qty: 1 Preservation: HNO3

Lot # 00073297

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: 1 Preservation: ICE And H2SO4

Lot # 00073297

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: 1 Preservation: FILTER-ICE

Lot # 00072954

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

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

Cooler Packed By: SR Number of Coolers: 1 Date: 3-25-19

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle
- ☐ FedEx Bills, if applicable
- ☐ Plastic Bags/Zip Ties
- ☒ Acid Labels (sets of 24)

If Preservation Included:

ID	<u>Sulfuric Acid</u>	Exp	<u>12-10-19</u>	Lot #	<u>SA8344070</u>
ID	_____	Exp	_____	Lot #	_____
ID	_____	Exp	_____	Lot #	_____
ID	_____	Exp	_____	Lot #	_____
ID	_____	Exp	_____	Lot #	_____

PLEASE RETURN ALL COOLERS FOR RQ-2019-04-01-10