



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2018

Data Qualified?

Yes / No

WIN Station Name: Chicken Branch at Old Plank Rd

Date: 3/22/2018

(mm/dd/yyyy)

WIN/ Field ID: G1WA0031

WBID: 971

Latitude: 30.3261

(Decimal Degrees)

County: Leon

ORG ID: 21FLWQA

Longitude: -84.1481

(Decimal Degrees)

Receiving Body of Water: St. Marks River

RQ-2018- 03-19-26

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Curtis Musson						X	X	X	X
Jason Storrs <i>Blake Spencer</i>					X	X			

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☐ Syringe	
☐ Dipper	☐ Other	
Depth Measured with <u>Meter Stick</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°)
EST	<u>1231</u>		<u>0.3</u>		<u>6.51</u>	<u>64.8</u>	<u>7.08</u>	<u>0.13</u>	<u>264</u>	<u>15.14</u>
CEN		<u>0.5</u>		<u>VOB</u>						

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			☐ <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	☒ 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			

Place Preservative Sticker(s) Here
(If Available)

Notes:

FW Bact
Tracers
Markers

Tracers W-E8321-AI & W-E8321-MS

Chicken Branch
at Old Plank Rd

WIN ID / Field ID

G1WA0031

Signature: [Signature]

Date: 3/22/18

Enter Field Parameters, Verify Station ID in LIMS DMT: [Signature] 4/11/18

QC Station ID, Field Parameters in LIMS DMT: cm 4/23/18

Scan/Save Field Sheets cm 4/23/18

Migrate Data to WIN: [Signature] 4/11/18

Verify Data in WIN: [Signature] 4/23/18

(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 name.

Meter ID: Bio #2 RQ- 2018-03-19-26 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.	Blake Spencer	3/21/18	1534	21.60	8.812	8.81	100.0	43.1		P/F	L/F
ICV	Blake Spencer	3/21/18	1535	21.61	8.812	8.81	100.1	43.1		P/F	L/F
CCV	Curtis Mussen	3/22/18	1429	19.55	9.155	8.97	99.4	33		P/F	L/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.	Blake Spencer	3/21/18	1538	171005B	10/2018	1000	1000	P/F	L/F
ICV	Blake Spencer	3/21/18	1539	171005A	10/2018	1000	1001	P/F	L/F
CCV	Curtis Mussen	3/22/18	1433	171005E	10/2018	100	101	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.	Blake Spencer	3/21/18	1548	171005B	4/2019	7.0	7.00	5.2	P/F	L/F
Calibr.	Blake Spencer	3/21/18	1557	171005A	10/2018	4.0	4.00	125.0	P/F	L/F
Calibr.	Blake Spencer	3/21/18	1552	171005C	2/1/19	10.0	10.00	-162.9	P/F	L/F
ICV	Blake Spencer	3/21/18	1558	171005A	10/2018	4.00	4.00	+118.3	P/F	L/F
CCV	Curtis Mussen	3/22/18	1435	171005C	04/2019	10.01	10.17	-120	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:

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: WAS-SECT

Requester: Curtis Musson

Field Report Prepared By:

Project ID: SMP

Collected By:

Sampling Agency:

Location		WIN ID/Field ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	WIN/STORET #	dd	dms	dd	dms	Comp	Grab	Date	Time
Sand Pond Middle									
Latitude	30.334	☒ dd	☐ dms	Longitude	-84.387	☒ dd	☐ dms	Salinity (ppt)	0.01
Comments: pH 7.59									
Sample Depth 0.3									
Diss. Oxygen 81.0									
Total Res. Chlorine 15									
Sp. Conductance (umho/cm) 15									
Bottle Group(s) A, C									
Eight Mile Pond Middle									
Latitude	30.32635	☒ dd	☐ dms	Longitude	-84.30273	☒ dd	☐ dms	Salinity (ppt)	0.03
Comments: pH 6.81									
Sample Depth 0.3									
Diss. Oxygen 81.2									
Total Res. Chlorine 75									
Sp. Conductance (umho/cm) 75									
Bottle Group(s) A, C									
Black Creek upstream of CR158									
Latitude	30.4172381	☒ dd	☐ dms	Longitude	-84.057057	☒ dd	☐ dms	Salinity (ppt)	0.02
Comments: pH 5.74									
Sample Depth 0.1									
Diss. Oxygen 89.0									
Total Res. Chlorine 47									
Sp. Conductance (umho/cm) 47									
Bottle Group(s) A, B, C, D									
Central Drainage Ditch downstream of Orange Ave.									
Latitude	30.40955	☒ dd	☐ dms	Longitude	-84.30273	☒ dd	☐ dms	Salinity (ppt)	0.06
Comments: pH 7.38									
Sample Depth 0.3									
Diss. Oxygen 89.0									
Total Res. Chlorine 118									
Sp. Conductance (umho/cm) 118									
Bottle Group(s) A, B, C, E									

Relinquished By:	Date/Time: 3/22/18	Shipping Method: HD	Number of Coolers Shipped: 43	Received By:	Date/Time: 3/22/18	1348
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Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: WAS-SECT

Requester: Curtis Musson

Field Report Prepared By:

Project ID: SMP

Collected By:

Sampling Agency:

Location		WIN ID / Field ID		Collection (comp begin or grab)		Eastern		Composite end		Bottle Group(s)	
Field ID	Chicken Branch	dd	Longitude	dd	Date	Time	Central	Date	Time	mg/L	Total Res. Chlorine
WIN/STORET #	at Old Plank Rd	dms	-84.1481	dms	3/22/18	1231				% sat	(mg/L)
Latitude	30.3261				Temp (C)	15.14		pH	7.08	ft	Sp. Conductance
Longitude	-84.1481				Salinity (ppt)	0.13		Comments		m	(umho/cm)
Location		WIN ID / Field ID		Collection (comp begin or grab)		Eastern		Composite end		Bottle Group(s)	
Field ID	Big Branch 50	dd	Longitude	dd	Date	Time	Central	Date	Time	mg/L	Total Res. Chlorine
WIN/STORET #	meters upstream	dms	-84.7651	dms	3/22/18	0826				% sat	(mg/L)
Latitude	30.3110				Temp (C)	13.47		pH	4.32	ft	Sp. Conductance
Longitude	-84.7651				Salinity (ppt)	0.01		Comments		m	(umho/cm)
Location		WIN ID / Field ID		Collection (comp begin or grab)		Eastern		Composite end		Bottle Group(s)	
Field ID	Godby Drainage	dd	Longitude	dd	Date	Time	Central	Date	Time	mg/L	Total Res. Chlorine
WIN/STORET #	at Progress Dr.	dms	-84.344741	dms	3/22/18	0925				% sat	(mg/L)
Latitude	30.444661				Temp (C)	13.61		pH	7.07	ft	Sp. Conductance
Longitude	-84.344741				Salinity (ppt)	0.08		Comments		m	(umho/cm)
Location		WIN ID / Field ID		Collection (comp begin or grab)		Eastern		Composite end		Bottle Group(s)	
Field ID	Megginnis Arm Run	dd	Longitude	dd	Date	Time	Central	Date	Time	mg/L	Total Res. Chlorine
WIN/STORET #	Downstream of Sharer	dms	-84.2982	dms	3/22/18	0725				% sat	(mg/L)
Latitude	30.4804				Temp (C)	14.05		pH	6.29	ft	Sp. Conductance
Longitude	-84.2982				Salinity (ppt)	0.04		Comments		m	(umho/cm)

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
	3/22/18 1347	HD	43		3/22/18 1348

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	6
Group: A	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 7	Preservative:	ICE	Enter Number of Bottles Sent to Lab	6
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	6
Group: A	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 7	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	6
Group: B	Bottle Type: W-ICP W-ICPMS	P-500ML	# of Bottles: 2	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	2
Group: C	Bottle Type: ECOLI-18QT	P-250ML-WO-THI	# of Bottles: 8	Preservative:	ICE	Enter Number of Bottles Sent to Lab	8
Group: D	Bottle Type: PCR-FILTER	QPCR-P-250ML	# of Bottles: 8	Preservative:	ICE	Enter Number of Bottles Sent to Lab	8
Group: D	Bottle Type: W-E8321-DI W-E8321-MS	BG-500ML	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
Group: E	Bottle Type: W-CARB-AA	BG-500ML	# of Bottles: 1	Preservative:	CH2ClCOOH Pre-Preserved	Enter Number of Bottles Sent to Lab	1
Group: E	Bottle Type:	BG-500ML	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4

Group: E	Bottle Type: W-CT-CI-R W-PCL-SQ-R	BG-500ML	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
Group: E	Bottle Type: W-E8321-DI W-E8321-MS	BG-500ML	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
Group: E	Bottle Type: W-PSNP-TQ	BG-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4

Cooler Packing Worksheet for Request: RQ-2018-03-19-26
CDD, Godby, Megginnis, Chicken, Sand, 8, Black158, Big Branch

Ship Cooler On: 3/15/2018
Customer/Project: WAS-SECT/SMP

Assigned To: GREENWOO_J
Requester: Curtis Musson
Priority: 3

850-245-8453
2600 Blair Stone Rd

Tallahassee, FL 32399

Attn: Curtis Musson

Comments:

Group A: Freshwater Kit
Group B: Metals
Group C: E. coli
Group D: Tracers/Markers (Aherb short list)
Group E: Pesticides (AHERB Long List)

Packing Notes:

No FedEx Labels
No Trash Bags
2 - submittal forms
1 - case of sulfuric acid

Requested Analyses:

Bottle Group: A

of Sites: 7

Container ID: P-1L

Qty: 7 Preservation: ICE

Lot # 00070298

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 # 1217342

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 7 Preservation: ICE And H2SO4

Lot # 0070302

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: 7 Preservation: FILTER-ICE

Lot # 10068317

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: 2

Container ID: P-500ML

Qty: 2 Preservation: HNO3

Lot # 0070302

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: 8

Container ID: P-250ML-WO-THI

Qty: 8 Preservation: ICE

Lot # 117107

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: QPCR-P-250ML

Qty: 8

Preservation: ICE

Lot # 00069545

Description: 250ml Sterile Nalgene (2)

Analysis

PCR-FILTER

Description

Preparation of Samples by Filtration and held for qPCR Analysis

Container ID: BG-500ML

Qty: 4

Preservation: ICE

Lot # 00067377

Description: Brown Glass Bottle 500ML

Affix BLUE dot to container.

Analysis

W-E8321-DI

W-E8321-MS

Description

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Bottle Group: E

of Sites: 1

Container ID: BG-500ML

Qty: 1

Preservation: CH₂ClCOOH Pre-Preserved

Lot # 00068229

Description: Brown Glass Bottle 500ML

Affix BLUE dot to container.

Analysis

W-CARB-AA

Description

Carbamates in water matrices by HPLC/MS/MS

Container ID: BG-500ML

Qty: 4

Preservation: ICE

Lot # 00067107

Description: Brown Glass Bottle 500ML

Affix BLUE dot to container.

Analysis

W-CT-CI-R

W-PCL-SQ-R

Description

Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization

Organochlorine pesticides in water matrices by GC/MS-SIM

Container ID: BG-500ML

Qty: 1

Preservation: ICE

Lot # 00067107

Description: Brown Glass Bottle 500ML

Affix BLUE dot to container.

Analysis

W-E8321-DI

W-E8321-MS

Description

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Container ID: BG-1L

Qty: 4 Preservation: ICE

Lot # 00069911

Description: Brown Glass Bottle 1L

Affix BLUE dot to container.

Analysis

W-PSNP-TQ

Description

Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS

Cooler Packed By: J.D.

Number of Coolers: 5

Date: 3/13/18

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle
- ☐ FedEx Bills, if applicable
- ☒ Plastic Bags
- ☒ Zip Ties

If Preservation Included:

ID	MCAP buffer solution	Exp	1/10/19	Lot #	98817
ID	Sulfuric Acid	Exp	12/7/18	Lot #	SA 7341020
ID		Exp		Lot #	
ID		Exp		Lot #	
ID		Exp		Lot #	

PLEASE RETURN ALL COOLERS FOR RQ-2018-03-19-26