FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

April 2018

Data Qualified? Yes / No — pH

WIN Station Name: Wards Creek Upstream of CR259 **Date:** 04/18/2018 (mm/dd/yyyy)

WIN/ Field ID: G1WA0074 **WBID:** 459 **Latitude:** 30.564331 (Decimal Degrees)

County: Jefferson **ORG ID:** 21FLWQA **Longitude:** -83.909293 (Decimal Degrees)

Receiving Body of Water: Lake Miccosukee **RQ-2018-** 04-16-18

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Curtis Musson		X		X	X
Ray Stuart	X	X	X		

Sampling Equipment
- [X] Sample Container [ ] Van Dorn [ ] Pole
- [ ] Carboy [X] Syringe
- [ ] Dipper [ ] Other
- Depth Measured with: Secchi
- Equipment ID:

Collection Method
- [ ] Wading [ ] Canoe/Kayak
- [ ] From Shore [ ] Electric Motor
- [X] Other From Bridge [ ] Gasoline Motor

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

Meter ID# BIO #2 **Matrix:** (Fresh) / Marine / DI

Photos: Yes / (No) **Flow:** No Flow / Intestital / (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 (PPTh)	Sp COND (µmhos/cm)	Temp. (C⁰)
(EST)	10:25	0.4	0.2	VOB	2.17	22.3	5.08	0.02	38	15.36
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	[X] W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	[X] Ice [X] H_2SO_4	SA 7233030	08/21/2018	[X] <2
Metals	[ ] W-ICPMS [ ] W-ICP	[ ] Ice [ ] HNO_3	NA 7341010	1207/2018	[ ] <2
Filtered Nutrients	[X] W-PO4-F [X] Field Filtered 0.45 µm Filter	[X] Ice	10827054		
Chlorophyll	[X] CHLSUITE-W	[X] Ice			
Physical/Aggregate (Fresh)	[X] Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS	[X] Ice			
Physical/Aggregate (Marine)	[ ] Alkalinity / W-F / W-TSS / TURBIDITY	[ ] Ice			
Macroinvertebrates	[ ] MI-FW-QLDC	[ ] Formalin			
Periphyton	[ ] ALGAE-ID	[ ] Ice			
Microbiology	[X] E Coli [ ] F Coli [ ] Enterococci	[ ] Ice			
Molecular	[ ] PCR-FILTER [ ] PCR-HF183 [ ] PCR-BacR [ ] PCR-GULL2 [ ] 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 [ ] Other			

Contains 1:1 Sulfuric Acid
Lot No.: SA7233030
Expires: 08/21/18
See Safety Data Sheet (SDS)

Place Preserva (If

SULFURIC ACID <51% — DANGER — Contains 1:1 Sulfuric Acid — THERMO FISHER SCIENTIFIC 1 REAGENT LANE FAIR LAWN, NJ 07410 1-800-766-7000 — 7664-93-9 7732-18-5

Notes:
Kit-A
FW Bact

Wards Creek Upstream of CR259

WIN ID / Field ID

G1WA0074

Signature: [signature] **Date:** 4/18/18

Enter Field Parameters, Verify Station ID In LIMS DMT: [signature] 4/24/18 (Initials/Date) QC Station ID, Field Parameters In LIMS DMT: CM 4-25-18 (Initials/Date)

Scan/Save Field Sheets 4.25.18 CM (Initials/Date) Migrate Data to WIN: (Initials/Date) Verify Data In WIN: (Initials/Date)

Hamburwood, Candy, Chicken, Black, Wang

Boldly "X" this box if there is qualified data on this page.

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Meter ID: Bio #2 RQ- 2018-04-16-18 Project: SMP

pH

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	4/18/18	7:09	21.25	8.863	8.87	100.0	73	-	P / F	L / F
ICV	Curtis Musson	4/18/18	7:10	21.23	8.863	8.87	100.0	73	-	P / F	L / F
CCV	Curtis Musson	4/18/18	13:19	26.02	8.114	8.06	99.3	77	-	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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	Curtis Musson	4/18/18	712	171005D	10/2018	1000	1000	P / F	L / F
ICV	Curtis Musson	4/18/18	713	171005D	10/2018	1000	1001	P / F	L / F
CCV	Curtis Musson	4/18/18	1320	180326A	04/2019	100	100	P / F	L / F
CCV								P / F	L / F

Conductivity Acceptance criteria ± 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	4/18/18	715	171005B	4/2019	7.0	7.00	3.5	P / F	L / F
Calibr.	Curtis Musson	4/18/18	717	171005A	10/2018	4.0	4.01	177	P / F	L / F
Calibr.	Curtis Musson	4/18/18	719	171005C	4/2019	10.0	9.98	-160	P / F	L / F
ICV	Curtis Musson	4/18/18	721	171005C	4/2019	10.0	9.96	-159	P / F	L / F
CCV	Curtis Musson	4/18/18	1322	171005A	4/2018	4.0	3.56	194	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 ± 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 Musson	4/18/18	714	0.00	0.00	P / F	L / F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria ± 5 % or ± 0.05m, whichever is greater.

COMMENTS:

Request Number: RQ-2018-04-16-18

Black, Wards, caney, Harbinwood, Megginnis

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Collected By: Curtis Musson / Raymond Stuart

Field Report Prepared By: Raymond Stuart

Sampling Agency: DEP

Location: Harbinwood Estates Drain

WIN ID/Filed ID: G1WA0034

Field ID:

WIN/STORET #:

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 4/18/18 Time 8:15 (Eastern / Central) | Composite end Date Time | Bottle Group(s) (See pg 2): A B C

Matrix (type, e.g., Salt, Fresh, etc): Fresh

Diss. Oxygen: 4.95 ☒ mg/L ☐ % sat | Total Res. Chlorine (mg/L):

Temp (C): 17.86 | pH: 7.07 | Sample Depth: 0.1 ☐ ft ☒ m | Sp. Conductance (umho/cm): 108

Latitude: 30.5193 ☒ dd ☐ dms | Longitude: -84.3357 ☒ dd ☐ dms | Salinity (ppt): 0.05 | Comments:

Location: Black Creek upsream of CR158

FILED/WIN ID: G1WA0072

Field ID:

WIN/STORET #:

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 4/18/18 Time 9:15 (Eastern / Central) | Composite end Date Time | Bottle Group(s): A B C

Matrix (type, e.g., Salt, Fresh, etc): Fresh

Diss. Oxygen: 8.51 ☒ mg/L ☐ % sat | Total Res. Chlorine (mg/L):

Temp (C): 14.64 | pH: 4.92 | Sample Depth: 0.3 ☐ ft ☒ m | Sp. Conductance (umho/cm): 31

Latitude: 30.472981 ☒ dd ☐ dms | Longitude: -84.057057 ☒ dd ☐ dms | Salinity (ppt): 0.01 | Comments:

Location: Wards Creek Upstream of CR259

WIN ID / Field ID: G1WA0074

Field ID:

WIN/STORET #:

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 4/18/18 Time 10:25 (Eastern / Central) | Composite end Date Time | Bottle Group(s): A

Matrix (type, e.g., Salt, Fresh, etc): Fresh

Diss. Oxygen: 2.17 ☒ mg/L ☐ % sat | Total Res. Chlorine (mg/L):

Temp (C): 15.36 | pH: 5.08 | Sample Depth: 0.2 ☐ ft ☒ m | Sp. Conductance (umho/cm): 38

Latitude: 30.564331 ☒ dd ☐ dms | Longitude: -83.909293 ☒ dd ☐ dms | Salinity (ppt): 0.02 | Comments:

Location: Caney Creek Upstream of US 90

WIN ID/Field ID: G1WA0014

Field ID:

WIN/STORET #:

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 4/18/18 Time 9:55 (Eastern / Central) | Composite end Date Time | Bottle Group(s): A B D

Matrix (type, e.g., Salt, Fresh, etc): Fresh

Diss. Oxygen: 9.38 ☒ mg/L ☐ % sat | Total Res. Chlorine (mg/L):

Temp (C): 14.59 | pH: 7.16 | Sample Depth: 0.08 ☐ ft ☒ m | Sp. Conductance (umho/cm): 120

Latitude: 30.5325 ☒ dd ☐ dms | Longitude: -83.9501 ☒ dd ☐ dms | Salinity (ppt): 0.06 | Comments:

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
	4/18/18 1:03		3		4-18-18/1:05

Request Number: RQ-2018-04-16-18

Black, Wards, caney, Harbinwood, Megginnis

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Collected By:

Field Report Prepared By:

Sampling Agency:

Location: Caney Creek Downstream of 158A
Field ID:
WIN/STORET #:
WIN ID / Field ID: G1WA0060

Latitude: 30.52 ☒ dd ☐ dms | Longitude: -83.94 ☐ dd ☐ dms

☐ Comp ☒ Grab | Collection (comp begin or grab) Date: 4/18/18 Time: 11:00 (Eastern / Central) | Composite end Date: Time: | Bottle Group(s) (See pg 2): A B D

Matrix (type, e.g., Salt, Fresh, etc): | Diss. Oxygen: 8.45 ☒ mg/L ☐ % sat | Total Res. Chlorine (mg/L):

Temp (C): 15.44 | pH: 6.70 | Sample Depth: 0.1 ☐ ft ☒ m | Sp. Conductance (umho/cm): 134

Salinity (ppt): 0.06 | Comments:

Location: Chicken Branch at Old Plank Rd
Field ID:
WIN/STORET #:
WIN ID / Field ID: G1WA0031

Latitude: 30.3261 ☒ dd ☐ dms | Longitude: -84.1481 ☒ dd ☐ dms

☐ Comp ☒ Grab | Collection (comp begin or grab) Date: 4/18/18 Time: 12:25 (Eastern / Central) | Composite end Date: Time: | Bottle Group(s): A C

Matrix (type, e.g., Salt, Fresh, etc): | Diss. Oxygen: 7.08 ☒ mg/L ☐ % sat | Total Res. Chlorine (mg/L):

Temp (C): 17.79 | pH: 7.04 | Sample Depth: 0.2 ☐ ft ☒ m | Sp. Conductance (umho/cm): 292

Salinity (ppt): 0.14 | Comments:

Location:
Field ID:
WIN/STORET #:

Latitude: ☐ dd ☐ dms | Longitude: ☐ dd ☐ dms

☐ Comp ☐ Grab | Collection (comp begin or grab) Date: Time: (Eastern / Central) | Composite end Date: Time: | Bottle Group(s):

Matrix (type, e.g., Salt, Fresh, etc): | Diss. Oxygen: ☐ mg/L ☐ % sat | Total Res. Chlorine (mg/L):

Temp (C): | pH: | Sample Depth: ☐ ft ☐ m | Sp. Conductance (umho/cm):

Salinity (ppt): | Comments:

Location:
Field ID:
WIN/STORET #:

Latitude: ☐ dd ☐ dms | Longitude: ☐ dd ☐ dms

☐ Comp ☐ Grab | Collection (comp begin or grab) Date: Time: (Eastern / Central) | Composite end Date: Time: | Bottle Group(s):

Matrix (type, e.g., Salt, Fresh, etc): | Diss. Oxygen: ☐ mg/L ☐ % sat | Total Res. Chlorine (mg/L):

Temp (C): | pH: | Sample Depth: ☐ ft ☐ m | Sp. Conductance (umho/cm):

Salinity (ppt): | Comments:

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
					4/18/18 1:05

Group: A	Bottle Type: P-1L	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	6
	ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS					
Group: A	Bottle Type: BP-1L	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	6
	CHLSUITE-W					
Group: A	Bottle Type: P-250ML-WO-THI	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	6
	ECOLI-18QT					
Group: A	Bottle Type: P-500ML	# of Bottles: 6	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	6
	W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC					
Group: A	Bottle Type: P-125ML	# of Bottles: 6	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	6
	W-PO4-F					
Group: B	Bottle Type: P-500ML	# of Bottles: 4	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	4
	W-ICP W-ICPMS					
Group: C	Bottle Type: QPCR-P-500ML	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	3
	PCR-FILTER					
Group: C	Bottle Type: BG-500ML	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
	W-E8321-DI W-E8321-MS					
Group: D	Bottle Type: QPCR-P-500ML	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	PCR-BACR PCR-FILTER					

Group: D Bottle Type: BG-500ML # of Bottles: 3 Preservative: ICE **Enter Number of Bottles Sent to Lab** 3

W-E8321-DI
W-E8321-MS

Cooler Packing Worksheet for Request: RQ-2018-04-16-18
Black, Wards, caney, Harbinwood, Megginnis
Ship Cooler On: 4/12/2018
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:
No preservatives needed.

Group A: Freshwater Kit & E. coli
Group B: Metals
Group C: Tracers & PCR-FILTER
Group D: Tracers & PCR-FILTER & PCR-BacR

Packing Notes:
No FedEx labels
No Trash Bags

QC bottles added-jhw

Requested Analyses:

Bottle Group: A # of Sites: 6

Container ID: P-1L **Qty: 6** **Preservation: ICE** **Lot #** 00570681

Description: Plastic Bottle 1L

Analysis	Description
ALKALINITY	Alkalinity in aqueous matrices as mg CaCO3/L
TURBIDITY	Turbidity in aqueous matrices
W-CL-IC	Chloride in aqueous matrices
W-COLOR	True Color measured at 450 nm
W-F	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
W-SO4-IC	Sulfate in aqueous matrices
W-TDS	Total Dissolved Solids in aqueous matrices
W-TSS	Total Suspended Solids in aqueous matrices

Container ID: BP-1L **Qty: 6** **Preservation: ICE** **Lot #** 1223623

Description: Brown Plastic Bottle 1L

Analysis	Description

Container ID: P-250ML-WO-THI **Qty: 6** **Preservation: ICE** **Lot #** L17167

Description:

Analysis	Description
ECOLI-18QT	Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems

Container ID: P-500ML **Qty: 6** **Preservation: ICE And H2SO4** **Lot #** 00066045

Description: Plastic Bottle 500 mL Affix YELLOW sulfuric acid dot to container.

Analysis	Description
W-NH3	Ammonia in aqueous matrices as mg N/L
W-NO2NO3	Nitrite/Nitrate in aqueous matrices as mg N/L
W-S-A-TP	Total Phosphorus in aqueous matrices as mg P/L
W-TKN	Total Kjeldahl Nitrogen in aqueous matrices
W-TOC	Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML **Qty: 6** **Preservation: FILTER-ICE** **Lot #** 00069732

Description: Plastic Bottle 125 mL

Analysis	Description
W-PO4-F	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group: B # of Sites: 4

Container ID: P-500ML **Qty: 4** **Preservation: HNO3** **Lot #** 00066045

Description: Plastic Bottle 500 mL Affix RED nitric acid dot to container.

Analysis	Description
W-ICP	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects
W-ICPMS	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

Bottle Group: C # of Sites: 3

Container ID: QPCR-P-500ML **Qty: 3** **Preservation: ICE** **Lot #** 0070172

Description: 500ml Sterile Nalgene

Analysis	Description
PCR-FILTER	Preparation of Samples by Filtration and held for qPCR Analysis

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Container ID: BG-500ML **Qty: 4** **Preservation: ICE** **Lot #** 0070528

Description: Brown Glass Bottle 500ML Affix BLUE dot to container.

Analysis	Description
W-E8321-DI	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS
W-E8321-MS	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Bottle Group: D # of Sites: 2

Container ID: QPCR-P-500ML **Qty: 2** **Preservation: ICE** **Lot #** 0070172

Description: 500ml Sterile Nalgene

Analysis	Description
PCR-BACR	Detection and quantification of Ruminant specific Bacteroidetes BacR genetic marker with quantitative polymerase chain reaction
PCR-FILTER	Preparation of Samples by Filtration and held for qPCR Analysis

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Container ID: BG-500ML **Qty: 3** **Preservation: ICE** **Lot #** 0069782 0070528/2

Description: Brown Glass Bottle 500ML Affix BLUE dot to container.

Analysis	Description
W-E8321-DI	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS
W-E8321-MS	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Cooler Packed By: J.D. Number of Coolers: 3 Date: 4/11/18

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-2018-04-16-18