



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2018

Data Qualified?

Yes / No

Wards Creek upstream of bridge at CR 259

WIN Station Name:

Date: 03-08-2018

WIN ID/ Field ID

G1WA0002 G1WA0074

WBID: 459

Latitude: 30.605

(mm/dd/yyyy)

County: Jefferson

ORG ID: 21FLWQA

Longitude: -83.893257

(Decimal Degrees)

Receiving Body of Water: Lake Miccosukee

RQ - 2018-02-05-2-35

(Decimal Degrees)

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Duplicate Collection	Blank Collection
Curtis Musson			X		X	X		
Blake Spencer		X	X	X				

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☒ Syringe	
☐ Dipper	☐ Other	
Depth Measured with: _____		
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

Field Sample

(Bracket Sample Time)

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	0816	0.4	0.2	VOB	2.44	22.5	4.41	0.02	49	11.97
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#: 1973230

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	SA7341020	12/7/18	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <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-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-AHERB-AA ☐ W-PYR-AA-R ☐ W-CARB-AA ☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Ice ☐ Other			

Contains: 1:1 H2SO4
Lot No.: SA7341020
Expires: 12/07/18
See Safety Data Sheet (SDS)

ThermoFisher Scientific
5200 North Main Street
Austin, TX 78721
1-800-665-2711

Contains: 1:1 H2SO4
Lot No.: SA7341020
Expires: 12/07/18
See Safety Data Sheet (SDS)

May be used for: Do not breathe dusts, fumes and vapors. Avoid contact with skin and eyes. Wash thoroughly after handling. Use only gloves and eye protection. Do not eat, drink, or smoke while using. Do not use in confined spaces. If you experience any symptoms, stop using immediately. If you experience any symptoms, stop using immediately. If you experience any symptoms, stop using immediately.

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QA/QC Sample Information Duplicate

Time Zone: EST CEN Time: _____		Field ID: _____ (WIN ID + DUP)			
Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	☐ W-NH3 / ☐ W-NO2NO3 / ☐ W-TKN / ☐ W-TOC / ☐ W-S-A-TP	☐ Ice ☐ H ₂ SO ₄			☐ < 2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO ₃			☐ < 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			
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-AHERB-AA ☐ W-PYR-AA-R ☐ W-CARB-AA ☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Ice ☐ Other			
Place Preservative Sticker(s) Here (If Available)					

Blank

Time Zone: EST CEN Time: <u>1330</u>		Field ID: <u>Blank_03082018</u> (BLANK_DDMMYYYY)			
DI Source: <u>Building C</u>		Location: <u>Building C</u>			
☒ Field Blank ☐ Equipment Blank ☐ Field Cleaned Equipment Blank		Equipment ID: _____			
Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / ☒ W-NO2NO3 / ☒ W-TKN / ☒ W-TOC / ☒ W-S-A-TP	☒ Ice ☒ H ₂ SO ₄	<u>SA 7341020</u>	<u>12/7/18</u>	☒ < 2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO ₃	<u>NA 7261120</u>	<u>9/16/18</u>	☒ < 2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice	<u>10802754</u>		
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			
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-AHERB-AA ☐ W-PYR-AA-R ☐ W-CARB-AA ☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Other			
Place Preservative Sticker(s) Here (If Available)					
Notes: Kit-A FW Bact			Wards: Creek upstream of CR259		
Signature: <u>[Signature]</u>			Date: <u>3/9/18</u>		

WIN ID/Field ID

G1WA0074

Enter Field Parameters, Verify Station ID In LIMS DMT: JA 4/10/2018 QC Station ID, Field Parameters In LIMS DMT: JA 4/10/18
(Initials/Date) (Initials/Date)

Scan/Save Field Sheets 4/18/18 CN Migrate Data to WIN: _____ Verify Data In WIN: _____
(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: Biology #2

RQ: 2018-02-05-35

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	3/8/18	0651	20.28	9.039	9.05	100.0	60.4		P/F	L/F
ICV	Blake Spencer	3/8/18	0652	20.28	9.039	9.06	100.1	60.4		P/F	L/F
CCV	Blake Spencer	3/8/18	1426	19.22	9.239	9.22	99.9	58.4		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	3/8/18	0655	171005D	10/26/19	1000	1000	P/F	L/F
ICV	Blake Spencer	3/8/18	0656	171005D	10/26/18	1000	1000	P/F	L/F
CCV	Blake Spencer	3/8/18	1439	171005E	10/26/18	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.	Blake Spencer	03/8/18	0702	171005B	04/19	7.0	7.00	2.6	P/F	L/F
Calibr.	Blake Spencer	3/8/18	0710	171005A	10/26/19	4.0	4.00	173.9	P/F	L/F
Calibr.	Blake Spencer	3/8/18	0716	171005C	04/20/19	10.0	10.00	-164.8	P/F	L/F
ICV	Blake Spencer	3/8/18	0726	171005C	04/20/19	10.0	9.99	-164.3	P/F	L/F
CCV	Blake Spencer	3/8/18	1441	171005B	04/20/19	7.0	6.99	6.8	P/F	L/F
CCV	Blake Spencer	3/8/18	1454	171005A	10/26/18	4.0	4.02	171.6	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 10 171.2, slope from 4 to 7 171.2 (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

Sand, 8, Godby, Freeman, Big Branch, Wards, Black

Customer: WAS-SECT

Requester: Curtis Musson

Field Report Prepared By: Blake Spencer

Project ID: SMP

Collected By: Curtis Musson & Blake Spencer

Sampling Agency: FDEP/WAS

Location	WIN ID/Field ID	Matrix (type, e.g., Salt, Fresh, etc)	Time	Composite end Date	Bottle Group(s)
Sand Pond Middle	G1WA00044				
Field ID					
WIN/STORET					
Latitude 30.334	Longitude -84.367	Temp (C) 17.83	pH 5.30	Diss. Oxygen 7.44	Total Res. Chlorine (mg/L) 16
Salinity (ppt) 0.01					
Big Branch 50 meters upstream of CR 67	G1WA00001				
Field ID					
WIN/STORET #					
Latitude 30.310	Longitude -84.7651	Temp (C) 11.80	pH 6.04	Diss. Oxygen 95.1	Total Res. Chlorine (mg/L) 53
Salinity (ppt) 0.02					
Eight Mile Pond Middle	G1WA00024				
Field ID					
WIN/STORET #					
Latitude 30.32635	Longitude -84.30273	Temp (C) 15.30	pH 7.36	Diss. Oxygen 99.2	Total Res. Chlorine (mg/L) 107
Salinity (ppt) 0.05					
Eight Mile Pond Middle	G1WA00024_DUP				
Field ID					
WIN/STORET #					
Latitude 30.32635	Longitude -84.30273	Temp (C) 15.30	pH 7.36	Diss. Oxygen 99.2	Total Res. Chlorine (mg/L) 107
Salinity (ppt) 0.05					

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Curtis Musson	3/8/18 1401	Drop off	4	[Signature]	3/8/18 1404

Customer: WAS-SECT

Requester: Curtis Musson

Field Report Prepared By:

Project ID: SMP

Collected By:

Sampling Agency:

[illegible]

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
					3/8/18 1424

Group: A	Bottle Type: ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS	P-1L	# of Bottles: 8	Preservative:	ICE	Enter Number of Bottles Sent to Lab	6
Group: A	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 8	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: 8	Preservative: ICE And H2SO4		Enter Number of Bottles Sent to Lab	6
Group: A	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 8	Preservative: FILTER-ICE		Enter Number of Bottles Sent to Lab	6
Group: B	Bottle Type: W-ICP W-ICPMS	P-500ML	# of Bottles: 4	Preservative: HNO3		Enter Number of Bottles Sent to Lab	3
Group: C	Bottle Type: ECOLI-18QT	P-250ML-WO-THI	# of Bottles: 7	Preservative: ICE		Enter Number of Bottles Sent to Lab	6
Group: D	Bottle Type: W-AHERB-AA W-SUC-AA-R W-UHERB-AA	BG-1L	# of Bottles: 7	Preservative: ICE		Enter Number of Bottles Sent to Lab	4
Group: E	Bottle Type: PCR-FILTER	QPCR-P-250ML	# of Bottles: 10	Preservative: ICE		Enter Number of Bottles Sent to Lab	2

Cooler Packing Worksheet for Request: RQ-2018-02-05-35

Sand, 8, Godby, Freeman, Big Branch, Wards, Black

Ship Cooler On: 2/2/2018

Customer/Project: WAS-SECT/SMP

Assigned To: KLUG_K

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

Group B: Metals

Group C: E. coli

Group D: Tracers (AHERB Short List)

Group E: PCR-FILTER

Packing Notes

No FedEx labels

Requested Analyses:

Bottle Group: A

of Sites: 8

Container ID: P-1L

Qty: 8 Preservation: ICE

Lot # 00069741

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: 8 Preservation: ICE

Lot # 1214297

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 8 Preservation: ICE And H2SO4

Lot # 00069738

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: 8 Preservation: FILTER-ICE

Lot # 00068695

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: 4

Container ID: P-500ML

Qty: 4 Preservation: HNO3

Lot # 00069738

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: 7

Container ID: P-250ML-WO-THI

Qty: 7 Preservation: ICE

Lot # L17048

Description:

Analysis

ECOLI-18QT

Description

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

Bottle Group: D

of Sites: 7

Container ID: BG-1L

Qty: 7 Preservation: ICE

Lot # 00069054 (4)

Description: Brown Glass Bottle 1L

Affix BLUE dot to container.

00069911 (3)

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: 5

Container ID: QPCR-P-250ML

Qty: 10 Preservation: ICE

Lot # 00069545

Description: 250ml Sterile Nalgene (2)

Analysis

PCR-FILTER

Description

Preparation of Samples by Filtration and held for qPCR Analysis

Cooler Packed By: KK Number of Coolers: 4 Date: 1/31/18

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-2018-02-05-35