FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified? Yes / (No)

WIN Station Name: Double Branch at CR159 **Date:** 10/08/2019 (mm/dd/yyyy)

WIN/ Field ID: G1WA0091 **WBID:** 630 **Latitude:** 30.5502 (Decimal Degrees)

County: Gadsden **ORG ID:** 21FLWQA **Longitude:** -84.4265 (Decimal Degrees)

Receiving Body of Water: Ochlockonee River **RQ-** 2019-09-30-58

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Blake Spencer			X	X	X
Evelyn Becerra	X	X			

Sampling Equipment
- [x] Sample Container [ ] Van Dorn [ ] Pole
- [ ] Carboy [x] Syringe
- [ ] Dipper [ ] Other
- Depth Measured with: Meter Stick
- Equipment ID:

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

Water Level: Dry/ Pooled/ (Low)/ Normal / High / Flooded **Meter ID#** 18J104543 **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. (C°)
EST	1400 ✓	0.1 ✓	0.05 ✓	VoB	5.34 ✓	65.5 ✓	5.98 ✓	0.04 ✓	89.7 ✓	26.0 ✓
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	SA9129100	5/09/20	[x] <2
Metals	[ ] W-ICPMS [ ] W-ICP	[ ] Ice [ ] HNO_3			[ ] <2
Filtered Nutrients	[x] W-PO4-F ✓ [x] Field Filtered 0.45 µm Filter	[x] Ice			
Chlorophyll	[x] CHLSUITE-W ✓	[x] 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-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			

SULFURIC ACID <51% — THERMO FISHER SCIENTIFIC, 529 NORTH MAIN STREET, MIAMI, OK 74354, 1-800-966-2711. DANGER. 7664-93-9 7732-18-5. Contains: 1:1 H2SO4. May be corrosive to metals. Causes severe skin burns and eye damage. Do not breathe fume/mist/vapours. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Wash contaminated clothing before reuse. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Store in corrosive resistant container/with a resistant inner liner.

Contains 1:1 H2SO4 Lot No: SA9129100 Expires 05/09/20 See Safety Data Sheet (SDS)

Notes:

Nutrients
Limited Nutrients
AGP ✓

WIN ID / FILED ID → G1WA0091

Location: Double Branch at CR159

Signature: **Date:** 10/8/19

LIMS EVENT ID: WQAP-2019-00-08-06 ✓ **WIN Import ID:**

Enter Field Parameters, Verify Station ID In LIMS DMT: 10/9/19 (Initials/Date) **QC Station ID, Field Parameters In LIMS DMT:** 11/13/19 (Initials/Date)

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

Request Number: RQ-2019-09-30-58

Streams AGP

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: WQAP

Project ID: SPPROJECTS

Requester: Julie K. Espy

Collected By: Blake Spencer & Evelyn Becerra

Field Report Prepared By: Evelyn Becerra

Sampling Agency: FDEP

Location: WIN ID / FILED ID → G1WA0093
Richlander Creek at CR 65B

Field ID:

WIN/STORET # Location:

Latitude ☐dd ☐dms | Longitude ☐dd ☐dms

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 10/8/2019 Time 1015 Eastern Central | Composite end Date Time | Bottle Group(s) (See pg 2): A

Matrix (type, e.g., Salt, Fresh, etc): FRESH | Diss. Oxygen: 91.8 ☐ mg/L ☒ % sat | Total Res. Chlorine (mg/L): -

Temp (C): 22.3 | pH: 6.29 | Sample Depth: 0.1 ☐ ft ☒ m | Sp. Conductance (umho/cm): 66.4

Salinity (ppt): 0.03 | Comments:

Location: WIN ID / FILED ID → G1WA0075
Lewis Creek Upstream of 157

Field ID:

WIN/STORET # Location:

Latitude ☐dd ☐dms | Longitude ☐dd ☐dms

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 10/8/2019 Time 1320 Eastern Central | Composite end Date Time | Bottle Group(s): A

Matrix (type, e.g., Salt, Fresh, etc): FRESH | Diss. Oxygen: 58.5 ☐ mg/L ☒ % sat | Total Res. Chlorine (mg/L): -

Temp (C): 24.0 | pH: 6.66 | Sample Depth: 0.05 ☐ ft ☒ m | Sp. Conductance (umho/cm): 204.4

Salinity (ppt): 0.10 | Comments:

Location: WIN ID / FILED ID → G1WA0090
Ochlockonee River Upstream of 27

Field ID:

WIN/STORET # Location:

Latitude ☐dd ☐dms | Longitude ☐dd ☐dms

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 10/8/2019 Time 1515 Eastern Central | Composite end Date Time | Bottle Group(s): A

Matrix (type, e.g., Salt, Fresh, etc): FRESH | Diss. Oxygen: 108.2 ☐ mg/L ☒ % sat | Total Res. Chlorine (mg/L): -

Temp (C): 27.7 | pH: 7.09 | Sample Depth: 0.3 ☐ ft ☒ m | Sp. Conductance (umho/cm): 192.7

Salinity (ppt): 0.09 | Comments:

Location: WIN ID / FILED ID → G1WA0086
Little River at Highbridge Road

Field ID:

WIN/STORET # Location:

Latitude ☐dd ☐dms | Longitude ☐dd ☐dms

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 10/08/2019 Time 1115 Eastern Central | Composite end Date Time | Bottle Group(s): A

Matrix (type, e.g., Salt, Fresh, etc): FRESH | Diss. Oxygen: 78.9 ☐ mg/L ☒ % sat | Total Res. Chlorine (mg/L): -

Temp (C): 24.4 | pH: 6.38 | Sample Depth: 0.3 ☐ ft ☒ m | Sp. Conductance (umho/cm): 115.0

Salinity (ppt): 0.05 | Comments:

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
	10/9/19 1616	HD	2		10/10/19 1616

Request Number: RQ-2019-09-30-58

Streams AGP

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: WQAP

Project ID: SPPROJECTS

Requester: Julie K. Espy

Collected By: Blake Spencer & Evelyn Becerra

Field Report Prepared By: Evelyn Becerra

Sampling Agency: FDEP

Location

WIN ID / FILED ID → G1WA0073

Field ID

WIN/STORET # Location: Little River 100 meters upstream of US 90

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 10/08/2019 Time 0915 Eastern Central | Composite end Date Time | Bottle Group(s) (See pg 2): A

Matrix (type, e.g., Salt, Fresh, etc): FRESH | Diss. Oxygen 87.2 ☐ mg/L ☒ % sat | Total Res. Chlorine (mg/L) –

Temp (C) 23.8 | pH 6.62 | Sample Depth 0.3 ☐ ft ☒ m | Sp. Conductance (umho/cm) 118.8

Salinity (ppt) 0.06 | Comments

Location

WIN ID / FILED ID → G1WA0091

Field ID

WIN/STORET # Location: Double Branch at CR159

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 10/08/2019 Time 1400 Eastern Central | Composite end Date Time | Bottle Group(s): A

Matrix (type, e.g., Salt, Fresh, etc): FRESH | Diss. Oxygen 65.5 ☐ mg/L ☒ % sat | Total Res. Chlorine (mg/L) –

Temp (C) 20.0 | pH 5.98 | Sample Depth 0.05 ☐ ft ☒ m | Sp. Conductance (umho/cm) 89.7

Salinity (ppt) 0.04 | 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
	10/8/19 16:16	HAND	2		10/8/19 16:16

Group: A	Bottle Type: AA-AGP	OP-500ML	# of Bottles: 18	Preservative:	ICE	**Enter Number of Bottles Sent to Lab**	12
Group: A	Bottle Type: AA-LIM-NUT	BP-1L	# of Bottles: 18	Preservative:	ICE	**Enter Number of Bottles Sent to Lab**	12
Group: A	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 9	Preservative:	ICE	**Enter Number of Bottles Sent to Lab**	6
Group: A	Bottle Type: W-NH3 W-NO2NO3 W-S-A-TP W-TKN	P-500ML	# of Bottles: 9	Preservative: ICE And H2SO4 H2SO4 LOT# SA9129100 EXP: 05/07/2020		**Enter Number of Bottles Sent to Lab**	6
Group: A	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 9	Preservative:	FILTER-ICE	**Enter Number of Bottles Sent to Lab**	0

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: 18J104543 RQ- 2019-09-30-59 Project: Little River SPProjects

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.	B. Spencer	10/8/19	0734	21.5	755.2	8.77	8.78	99.4	—	1.062	(P) F	(L) F
ICV	"	10/8/19	0737	21.5	755.2	8.77	8.77	99.4	—	—	P / F	L / F
CCV	"	10/8/19	1643	22.4	754.0	8.62	8.70	100.2	—	—	(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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	B. Spencer	10/8/19	0740	190619F	06/2020	1000	1000	(P) F	(L) F
ICV	"	10/8/19	0744	190618F	06/2020	1000	1000	(P) F	(L) F
CCV	"	10/8/19	1647	290AC81	08/2021	100	102.1	(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	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	B. Spencer	10/8/19	0749	190619B	12/2020	7.01	22.1	7.00	-45.3	(P) F	(L) F
Calibr.	"	10/8/19	0758	190618A	12/2020	4.00	22.3	4.00	177.3	(P) F	(L) F
Calibr.	"	10/8/19	0801	190618C	12/2020	10.03	22.4	10.03	-215.1	(P) F	(L) F
ICV	"	10/8/19	0804	190618C	12/2020	10.03	22.4	10.02	-215.1	(P) F	(L) F
CCV	"	10/8/19	1649	190618A	12/2020	4.00	22.8	4.13	120.0	(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)

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	B. Spencer	10/8/19	0806	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:

Cooler Packing Worksheet for Request: RQ-2019-09-30-58
Streams AGP
Ship Cooler On: 9/26/2019
Customer/Project: WQAP/SPPROJECTS

Assigned To: SHAIK_A
Requester: Julie K. Espy
Priority: 3

850-245-8416
2600 Blair Stone Rd
MS #3560
Tallahassee, FL 32399-2400

Attn: Julie Espy

Comments:
No preservatives needed.

Requested Analyses:

Bottle Group: A **# of Sites: 9**

Container ID: OP-500ML **Qty: 18** **Preservation: ICE** **Lot #** Brownleaf

Description: Opaque Plastic Bottle 500mL - Biology AGP Analysis

Analysis	Description
AA-AGP	Potential algal growth determination.

Container ID: BP-1L **Qty: 18** **Preservation: ICE** **Lot #** Brownleaf

Description: Brown Plastic Bottle 1L

Analysis	Description
AA-LIM-NUT	Nutrient(s) limiting algal growth determination.

Container ID: BP-1L **Qty: 9** **Preservation: ICE** **Lot #** 1279880

Description: Brown Plastic Bottle 1L

Analysis	Description
CHLSUITE-W	Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry

Container ID: P-500ML **Qty: 9** **Preservation: ICE And H2SO4** **Lot #** 0375526

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

Container ID: P-125ML **Qty: 9** **Preservation: FILTER-ICE** **Lot #** 0375427

Description: Plastic Bottle 125 mL

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

Cooler Packed By: TRS Number of Coolers: 4 Date: _____

Kit must also include:
- ✓ Field Sheets
- ✓ Temperature Control Bottle
- X FedEx Bills, if applicable
- ✓ Plastic Bags/Zip Ties
- ✓ Acid Labels (sets of 24)

If Preservation Included:

ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2019-09-30-58