



# FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: Big Branch Downstream of Road 5

Date: 04/03/2019 ✓

WIN/ Field ID: G2WA0010 ✓

WBID: 1154

Latitude: 30.15825339

(mm/dd/yyyy)

County: Gulf

ORG ID: 21FLWQA ✓

Longitude: -85.25200674

(Decimal Degrees)

(Decimal Degrees)

Receiving Body of Water: Stone Mill Creek

RQ: 2018-03-26-25

| Sampling Team Members               |  |  |  | WQ Measurements | Sample Collection | Documentation | Preservation | Preservation Check |
|-------------------------------------|--|--|--|-----------------|-------------------|---------------|--------------|--------------------|
| Jason Storrs                        |  |  |  |                 |                   |               |              |                    |
| - Avril Woods-McGrath Blake Spencer |  |  |  |                 |                   |               |              |                    |

| Sampling Equipment                                   |                                             |                               |
|------------------------------------------------------|---------------------------------------------|-------------------------------|
| <input checked="" type="checkbox"/> Sample Container | <input type="checkbox"/> Van Dorn           | <input type="checkbox"/> Pole |
| <input type="checkbox"/> Carboy                      | <input checked="" type="checkbox"/> Syringe |                               |
| <input type="checkbox"/> Dipper                      | <input type="checkbox"/> Other              |                               |
| Depth Measured with <u>VSF 155 Pro</u>               |                                             |                               |
| Equipment ID                                         |                                             |                               |

| Collection Method                          |                                         |  |
|--------------------------------------------|-----------------------------------------|--|
| <input checked="" type="checkbox"/> Wading | <input type="checkbox"/> Canoe/Kayak    |  |
| <input type="checkbox"/> From Shore        | <input type="checkbox"/> Electric Motor |  |
| <input type="checkbox"/> Other             | <input type="checkbox"/> Gasoline Motor |  |

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

Meter ID# Pro 155 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       | <u>1104</u> ✓ | <u>0.3</u>      | <u>0.15</u>      | <u>VOB</u>      | <u>6.3</u> | <u>62.2</u> | <u>4.36</u> | <u>0.01</u>    | <u>23.4</u>        | <u>14.7</u> |
| 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#: 2075075

| Parameter Suite             | Parameter Methods                                                                                                                                                                                                   | Preservation                                                                      | Lot#            | Expiration      | pH Check                               |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------|-----------------|----------------------------------------|
| Preserved Nutrients         | <input checked="" type="checkbox"/> W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                                                                                                                     | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> H2SO4 | <u>SA834470</u> | <u>12/10/19</u> | <input checked="" type="checkbox"/> <2 |
| Metals                      | <input type="checkbox"/> W-ICPMS <input type="checkbox"/> W-ICP                                                                                                                                                     | <input type="checkbox"/> Ice <input type="checkbox"/> HNO3                        |                 |                 | <input type="checkbox"/> <2            |
| Filtered Nutrients          | <input checked="" type="checkbox"/> W-P04-F <input checked="" type="checkbox"/> Field Filtered 0.45 µm Filter                                                                                                       | <input type="checkbox"/> Ice                                                      | <u>10827054</u> |                 |                                        |
| Chlorophyll                 | <input checked="" type="checkbox"/> CHLSUITE-W                                                                                                                                                                      | <input type="checkbox"/> Ice                                                      |                 |                 |                                        |
| Physical/Aggregate (Fresh)  | <input checked="" type="checkbox"/> Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS                                                                                                     | <input type="checkbox"/> Ice                                                      |                 |                 |                                        |
| Physical/Aggregate (Marine) | <input type="checkbox"/> Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY                                                                                                                                             | <input type="checkbox"/> Ice                                                      |                 |                 |                                        |
| Macroinvertebrates          | <input type="checkbox"/> MI-FW-QLDC                                                                                                                                                                                 | <input type="checkbox"/> Formalin                                                 |                 |                 |                                        |
| Periphyton                  | <input type="checkbox"/> ALGAE-ID                                                                                                                                                                                   | <input type="checkbox"/> Ice                                                      |                 |                 |                                        |
| Microbiology                | <input checked="" type="checkbox"/> E Coli <input type="checkbox"/> F Coli <input type="checkbox"/> Enterococci                                                                                                     | <input checked="" type="checkbox"/> Ice                                           |                 |                 |                                        |
| Molecular                   | <input type="checkbox"/> PCR-FILTER <input type="checkbox"/> PCR-BacR <input type="checkbox"/> PCR-GULL2 <input type="checkbox"/> PCR-HF183 <input type="checkbox"/> PCR-DG3 <input type="checkbox"/> PCR-GFD       | <input type="checkbox"/> Ice                                                      |                 |                 |                                        |
| Tracers                     | <input type="checkbox"/> W-E8321-DI <input type="checkbox"/> W-E8321-MS                                                                                                                                             | <input type="checkbox"/> Ice                                                      |                 |                 |                                        |
| Pesticides                  | <input type="checkbox"/> W-PSNP-TQ <input type="checkbox"/> W-CT-CL-R <input type="checkbox"/> W-E8321-DI <input type="checkbox"/> W-PCL-SQ-R <input type="checkbox"/> WE8321-MS <input type="checkbox"/> W-CARB-AA | <input type="checkbox"/> Ice                                                      |                 |                 |                                        |
| Phytoplankton               | <input type="checkbox"/> DTY-QN-C <input type="checkbox"/> PKD-QN-C                                                                                                                                                 | <input type="checkbox"/> Ice                                                      |                 |                 |                                        |

Notes: Nutrients E. Coli

Signature: \_\_\_\_\_ Date: 04/03/2019

WIN ID / FILED ID → G2WA0010

Location: Big Branch Downstream of Road 5

LIMS EVENT ID: WAS-SECT-2019-04-03-02 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 185164543

RQ- 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<br>DEP SOP<br>FT 1500 | Name          | Date   | Time<br>CT-ET | Temp<br>°C | Baro-<br>meter<br>mmHg | D.O.<br>Chart<br>mg/L | Meter<br>D.O.<br>mg/L | % DO  | Probe<br>Charge | Probe<br>Gain | Pass<br>/<br>Fail | Lab<br>/<br>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  $\pm 0.3$  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.<br>Cond.<br>FT 1200 | Name          | Date   | Time<br>CT-ET | Lot #   | Expir.<br>Date | Standard<br>$\mu$ mhos/cm | Meter<br>Reading<br>$\mu$ mhos/cm | Pass<br>/<br>Fail | Lab<br>/<br>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<br>DEP SOP<br>FT 1100 | Name          | Date   | Time<br>CT-ET | Lot #   | Expir.<br>Date | pH<br>Buffer<br>SU | Temp<br>°C | Meter<br>reading<br>SU | mV     | Pass<br>/<br>Fail | Lab<br>/<br>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  $\pm 0.2$  SU; mV pH 7 Range  $0 \pm 50$ ;

mV pH 4 Range  $+180 \pm 50$ ;

mV pH 10 Range  $-180 \pm 50$ ;

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<br>(Daily Calibration &<br>ICV) | Name          | Date   | Time<br>CT-ET | Calibrated<br>Value (0.00 or<br>Offset), meters | ICV Value,<br>meters | Pass /<br>Fail | Lab /<br>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  $\leq 4$  down,  $\geq 5$  up. ICV acceptance criteria  $\pm 5\%$  or  $\pm 0.05$ m, whichever is greater.

COMMENTS:

Sampling Agency: FAEP

|                                   |                          |                                          |                                         |                           |                           |
|-----------------------------------|--------------------------|------------------------------------------|-----------------------------------------|---------------------------|---------------------------|
| Relinquished By:<br><i>Babbar</i> | Date/Time<br>4/3/19 1525 | Shipping Method<br><i>Hand Delivered</i> | Number of Coolers Shipped:<br><i>23</i> | Received By:<br><i>Wk</i> | Date/Time<br>4.3.19 15:25 |
|-----------------------------------|--------------------------|------------------------------------------|-----------------------------------------|---------------------------|---------------------------|

|          |                                                                                                    |          |                 |                                                                           |                                     |   |
|----------|----------------------------------------------------------------------------------------------------|----------|-----------------|---------------------------------------------------------------------------|-------------------------------------|---|
| Group: A | Bottle Type:<br>ALKALINITY<br>TURBIDITY<br>W-CL-IC<br>W-COLOR<br>W-F<br>W-SO4-IC<br>W-TDS<br>W-TSS | P-1L     | # of Bottles: 3 | Preservative: ICE                                                         | Enter Number of Bottles Sent to Lab | 3 |
| Group: A | Bottle Type:<br>CHLSUITE-W                                                                         | BP-1L    | # of Bottles: 3 | Preservative: ICE                                                         | Enter Number of Bottles Sent to Lab | 3 |
| Group: A | Bottle Type:<br>W-NH3<br>W-NO2NO3<br>W-S-A-TP<br>W-TKN<br>W-TOC                                    | P-500ML  | # of Bottles: 3 | Preservative: ICE And H2SO4<br>H2SO4<br>LOT# S98344878<br>EXP: 12/10/2019 | Enter Number of Bottles Sent to Lab | 3 |
| Group: A | Bottle Type:<br>W-PO4-F                                                                            | P-125ML  | # of Bottles: 3 | Preservative: FILTER-ICE                                                  | Enter Number of Bottles Sent to Lab | 3 |
| Group: B | Bottle Type:<br>W-CARB-AA                                                                          | BG-500ML | # of Bottles: 2 | Preservative: CH2ClCOOH<br>Pre-Preserved                                  | Enter Number of Bottles Sent to Lab | 2 |
| Group: B | Bottle Type:<br>W-CT-CLR<br>W-PCL-SQ-R                                                             | BG-500ML | # of Bottles: 6 | Preservative: ICE                                                         | Enter Number of Bottles Sent to Lab | 6 |
| Group: B | Bottle Type:<br>W-E8321-DI<br>W-E8321-MS                                                           | BG-500ML | # of Bottles: 2 | Preservative: ICE                                                         | Enter Number of Bottles Sent to Lab | 2 |
| Group: B | Bottle Type:<br>W-ICP<br>W-ICPMS                                                                   | P-500ML  | # of Bottles: 2 | Preservative: HNO3<br>Lot #: N/A8344050<br>Exp: 12/10/19                  | Enter Number of Bottles Sent to Lab | 2 |
| Group: B | Bottle Type:<br>W-PSNP-TQ                                                                          | BG-1L    | # of Bottles: 6 | Preservative: ICE                                                         | Enter Number of Bottles Sent to Lab | 6 |

|            |                             |                 |               |     |                                     |   |
|------------|-----------------------------|-----------------|---------------|-----|-------------------------------------|---|
| Group: C   | Bottle Type: P-250ML-WO-THI | # of Bottles: 5 | Preservative: | ICE | Enter Number of Bottles Sent to Lab | 4 |
| ECOLI-18QT |                             |                 |               |     |                                     |   |
| Group: D   | Bottle Type: QPCR-P-250ML   | # of Bottles: 2 | Preservative: | ICE | Enter Number of Bottles Sent to Lab | 2 |
| PCR-FILTER |                             |                 |               |     |                                     |   |
| Group: D   | Bottle Type: BG-500ML       | # of Bottles: 1 | Preservative: | ICE | Enter Number of Bottles Sent to Lab | 1 |
| W-E8321-DI |                             |                 |               |     |                                     |   |
| W-E8321-MS |                             |                 |               |     |                                     |   |

Cooler Packing Worksheet for Request: RQ-2018-03-26-25

Big Branch, Stafford, Coon, Stone Mill, Big Branch

Ship Cooler On: 3/20/2018

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.

- 3 Group A: Freshwater Kit
- 2 Group B: pesticides, Metals
- 5 Group C: E. coli
- 1 Group D: Tracers, Markers

Packing Notes:

No FedEx Labels

No Trash Bags

No Zip Ties

2 Submittal forms

Requested Analyses:

**Bottle Group: A**

**# of Sites: 3**

Container ID: P-1L

Qty: 3      Preservation: ICE

Lot # 00070681

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: 3      Preservation: ICE

Lot # 1215081

Description: Brown Plastic Bottle 1L

**Analysis**

**Description**

Container ID: P-500ML

Qty: 3

Preservation: ICE And H2SO4

Lot # 00068654

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: 3

Preservation: FILTER-ICE

Lot # 00068732

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: BG-500ML

Qty: 2

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: 6

Preservation: ICE

Lot # 00070085

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: 2

Preservation: ICE

Lot # 00070085

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: P-500ML

Qty: 2 Preservation: HNO3

Lot # 00068654

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: BG-1L

Qty: 6 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

Bottle Group: C

# of Sites: 5

Container ID: P-250ML-WO-THI

Qty: 5 Preservation: ICE

Lot # 0007167

Description:

Analysis

ECOLI-18QT

Description

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

Bottle Group: D

# of Sites: 1

Container ID: QPCR-P-250ML

Qty: 2 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: 1 Preservation: ICE

Lot # 00070085

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



Cooler Packed By:

J. A.

Number of Coolers:

3

Date:

3/20/18

Kit must also include:

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

If Preservation Included:

|    |                             |     |                |       |              |
|----|-----------------------------|-----|----------------|-------|--------------|
| ID | <u>MCAA Buffer Solution</u> | Exp | <u>1/10/19</u> | Lot # | <u>80817</u> |
| ID | _____                       | Exp | _____          | Lot # | _____        |
| ID | _____                       | Exp | _____          | Lot # | _____        |
| ID | _____                       | Exp | _____          | Lot # | _____        |
| ID | _____                       | Exp | _____          | Lot # | _____        |

**PLEASE RETURN ALL COOLERS FOR RQ-2018-03-26-25**