



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2018

Data Qualified?

Yes / ☒ No

Caney Creek Upstream of US 90

WIN Station Name:

Date: 9/5/2018

WIN ID/ Field ID G1WA0014

WBID: 716

Latitude: 30.5325

(mm/dd/yyyy)

County: Jefferson

ORG ID: 21FLWQA

Longitude: -83.9501

(Decimal Degrees)

Receiving Body of Water: Lake Miccosukee

RQ - 2018-09-03-22

| Sampling Team Members |  | WQ Measurements | Sample Collection | Documentation | Preservation | Preservation Check | Duplicate Collection | Blank Collection |
|-----------------------|--|-----------------|-------------------|---------------|--------------|--------------------|----------------------|------------------|
| Ben Ralys             |  |                 | X                 |               | X            |                    | X                    | X                |
| Blake Spencer         |  | X               |                   | X             |              | X                  |                      |                  |

| 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>Meter Stick</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/ <u>Normal</u> / High/ Flooded | Meter ID# Biology #2                           | Matrix: Fresh / Marine / DI             |
| Photos: Yes / <input checked="" type="radio"/> No            | Flow: No Flow / Intestinal / <u>Flowing</u> NA | Tide: Rising/ Falling/ Slack/ <u>NA</u> |
| 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       | 0830 | 0.3             | 0.15             | VOB             | 7.63      | 91.4      | 7.13 | 0.04           | 90                 | 24.44      |
| 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#: 2022079

| 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 | SA8085170  | 3/26/19    | <input checked="" type="checkbox"/> <2 |
| Metals                      | <input checked="" type="checkbox"/> W-ICPMS <input checked="" type="checkbox"/> W-ICP                                                                                                                                                                                                      | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> HNO3  | NA 7261120 | 9/18/18    | <input checked="" type="checkbox"/> <2 |
| Filtered Nutrients          | <input checked="" type="checkbox"/> W-PO4-F <input checked="" type="checkbox"/> Field Filtered 0.45 µm Filter                                                                                                                                                                              | <input checked="" type="checkbox"/> Ice                                           | 10827054   |            |                                        |
| Chlorophyll                 | <input checked="" type="checkbox"/> CHLSUITE-W                                                                                                                                                                                                                                             | <input checked="" type="checkbox"/> Ice                                           |            |            |                                        |
| Physical/Aggregate (Fresh)  | <input checked="" type="checkbox"/> Alkalinity W-F / W-TSS / TURBIDITY / W-CH-IC / W-COLOR / W-SO4-IC / W-TDS                                                                                                                                                                              | <input checked="" type="checkbox"/> Ice                                           |            |            |                                        |
| Physical/Aggregate (Marine) | <input type="checkbox"/> Alkalinity 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 checked="" type="checkbox"/> PCR-HF183 <input checked="" type="checkbox"/> PCR-BacR <input type="checkbox"/> PCR-GULL2 <input type="checkbox"/> PCR-GFD                                                                                         | <input checked="" type="checkbox"/> Ice                                           |            |            |                                        |
| Tracers                     | <input type="checkbox"/> W-SUC-AA-R <input type="checkbox"/> W-UHERB-AA <input type="checkbox"/> W-AHERB-AA                                                                                                                                                                                | <input type="checkbox"/> Ice                                                      |            |            |                                        |
| Pesticides                  | <input type="checkbox"/> W-PSNP-TQ <input type="checkbox"/> W-AHERB-AA <input type="checkbox"/> W-PYR-AA-R <input type="checkbox"/> W-CARB-AA <input type="checkbox"/> W-PCL-SQ-R <input type="checkbox"/> W-UHERB-AA <input type="checkbox"/> W-GLYPH <input type="checkbox"/> W-SUC-AA-R | <input type="checkbox"/> Ice <input type="checkbox"/> Other                       |            |            |                                        |
| W-E8321-AI W-E8321-MS       |                                                                                                                                                                                                                                                                                            | Ice                                                                               |            |            |                                        |

Contains: 1:1 H2SO4  
Lot No.: SA8085170  
Expires: 03/26/19  
See Safety Data Sheet (SDS)

Contains: 1:1 H2SO4  
Lot No.: SA8085170  
Expires: 03/26/19  
See Safety Data Sheet (SDS)

Contains: 1:1 Nitric Acid  
NA-7261120  
EXP: 09/18/18  
See SDS

Caney Creek Upstream of US 90

QC Dup ↓ Field ID

G1WA0014

WIN ID ↑

QA/QC Sample Information  
Duplicate

G1WA0014\_DUP

| Time Zone:                  | EST                                                                                                                                                                                                                                                                                                                                                                         | CEN | Time: | 0830                                                                                                       | Field ID:  | (WIN ID + DUP) |                                         |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------|------------------------------------------------------------------------------------------------------------|------------|----------------|-----------------------------------------|
| Parameter Suite             | Parameter Methods                                                                                                                                                                                                                                                                                                                                                           |     |       | Preservation                                                                                               | Lot#       | Expiration     | pH Check                                |
| Preserved Nutrients         | <input checked="" type="checkbox"/> W-NH3 / <input checked="" type="checkbox"/> W-NO2NO3 / <input checked="" type="checkbox"/> W-TKN / <input checked="" type="checkbox"/> W-TOC / <input checked="" type="checkbox"/> W-S-A-TP                                                                                                                                             |     |       | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> | SA8085170  | 3/26/19        | <input checked="" type="checkbox"/> < 2 |
| Metals                      | <input checked="" type="checkbox"/> W-ICPMS <input checked="" type="checkbox"/> W-ICP                                                                                                                                                                                                                                                                                       |     |       | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> HNO <sub>3</sub>               | NA 7261120 | 9/18/18        | <input checked="" type="checkbox"/> < 2 |
| Filtered Nutrients          | <input checked="" type="checkbox"/> W-PO4-F <input checked="" type="checkbox"/> Field Filtered 0.45 µm Filter                                                                                                                                                                                                                                                               |     |       | <input checked="" type="checkbox"/> Ice                                                                    | 10827054   |                |                                         |
| Chlorophyll                 | <input checked="" type="checkbox"/> CHLSUITE-W                                                                                                                                                                                                                                                                                                                              |     |       | <input checked="" type="checkbox"/> Ice                                                                    |            |                |                                         |
| Physical/Aggregate (Fresh)  | <input checked="" type="checkbox"/> Alkalinity / <input checked="" type="checkbox"/> W-F / <input checked="" type="checkbox"/> W-TSS / <input checked="" type="checkbox"/> TURBIDITY / <input checked="" type="checkbox"/> W-CI-IC / <input checked="" type="checkbox"/> W-COLOR / <input checked="" type="checkbox"/> W-SO4-IC / <input checked="" type="checkbox"/> W-TDS |     |       | <input checked="" type="checkbox"/> Ice                                                                    |            |                |                                         |
| Physical/Aggregate (Marine) | <input type="checkbox"/> Alkalinity / <input type="checkbox"/> W-F / <input type="checkbox"/> W-TSS / <input type="checkbox"/> TURBIDITY                                                                                                                                                                                                                                    |     |       | <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 checked="" type="checkbox"/> PCR-HF183 <input checked="" type="checkbox"/> PCR-BacR <input type="checkbox"/> PCR-GULL2 <input type="checkbox"/> PCR-GFD                                                                                                                                                                          |     |       | <input checked="" type="checkbox"/> Ice                                                                    |            |                |                                         |
| Tracers                     | <input type="checkbox"/> W-SUC-AA-R <input type="checkbox"/> W-UHERB-AA <input type="checkbox"/> W-AHERB-AA                                                                                                                                                                                                                                                                 |     |       | <input type="checkbox"/> Ice                                                                               |            |                |                                         |
| Pesticides                  | <input type="checkbox"/> W-PSNP-TQ <input type="checkbox"/> W-AHERB-AA <input type="checkbox"/> W-PYR-AA-R <input type="checkbox"/> W-CARB-AA<br><input type="checkbox"/> W-PCL-SQ-R <input type="checkbox"/> W-UHERB-AA <input type="checkbox"/> W-GLYPH <input type="checkbox"/> W-SUC-AA-R                                                                               |     |       | <input type="checkbox"/> Ice<br><input type="checkbox"/> Other                                             |            |                |                                         |
|                             |                                                                                                                                                                                                                                                                                                                                                                             |     |       | <input checked="" type="checkbox"/> Ice                                                                    |            |                |                                         |

Blank

Field Blank  
DI Water

Time Zone: EST CEN Time: 0852 Field ID:

DI Source: LAB Location:

ELANK\_09052018

☒ Field Blank ☐ Equipment Blank ☐ Field Cleaned Equipment Blank Equipme.

| Parameter Suite             | Parameter Methods                                                                                                                                                                                                                                                                                                                                                           |  |  | Preservation                                                                                               | Lot#       | Expiration | pH Check                                |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|------------------------------------------------------------------------------------------------------------|------------|------------|-----------------------------------------|
| Preserved Nutrients         | <input checked="" type="checkbox"/> W-NH3 / <input checked="" type="checkbox"/> W-NO2NO3 / <input checked="" type="checkbox"/> W-TKN / <input checked="" type="checkbox"/> W-TOC / <input checked="" type="checkbox"/> W-S-A-TP                                                                                                                                             |  |  | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> | SA8085170  | 3/26/19    | <input checked="" type="checkbox"/> < 2 |
| Metals                      | <input checked="" type="checkbox"/> W-ICPMS <input checked="" type="checkbox"/> W-ICP                                                                                                                                                                                                                                                                                       |  |  | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> HNO <sub>3</sub>               | NA 7261120 | 9/18/18    | <input checked="" type="checkbox"/> < 2 |
| Filtered Nutrients          | <input checked="" type="checkbox"/> W-PO4-F <input checked="" type="checkbox"/> Field Filtered 0.45 µm Filter                                                                                                                                                                                                                                                               |  |  | <input checked="" type="checkbox"/> Ice                                                                    | 10827054   |            |                                         |
| Chlorophyll                 | <input checked="" type="checkbox"/> CHLSUITE-W                                                                                                                                                                                                                                                                                                                              |  |  | <input checked="" type="checkbox"/> Ice                                                                    |            |            |                                         |
| Physical/Aggregate (Fresh)  | <input checked="" type="checkbox"/> Alkalinity / <input checked="" type="checkbox"/> W-F / <input checked="" type="checkbox"/> W-TSS / <input checked="" type="checkbox"/> TURBIDITY / <input checked="" type="checkbox"/> W-CI-IC / <input checked="" type="checkbox"/> W-COLOR / <input checked="" type="checkbox"/> W-SO4-IC / <input checked="" type="checkbox"/> W-TDS |  |  | <input checked="" type="checkbox"/> Ice                                                                    |            |            |                                         |
| Physical/Aggregate (Marine) | <input type="checkbox"/> Alkalinity / <input type="checkbox"/> W-F / <input type="checkbox"/> W-TSS / <input type="checkbox"/> TURBIDITY                                                                                                                                                                                                                                    |  |  | <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-HF183 <input type="checkbox"/> PCR-BacR <input type="checkbox"/> PCR-GULL2 <input type="checkbox"/> PCR-GFD                                                                                                                                                                                                |  |  | <input type="checkbox"/> Ice                                                                               |            |            |                                         |
| Tracers                     | <input type="checkbox"/> W-SUC-AA-R <input type="checkbox"/> W-UHERB-AA <input type="checkbox"/> W-AHERB-AA                                                                                                                                                                                                                                                                 |  |  | <input checked="" type="checkbox"/> Ice                                                                    |            |            |                                         |
| Pesticides                  | <input type="checkbox"/> W-PSNP-TQ <input type="checkbox"/> W-AHERB-AA <input type="checkbox"/> W-PYR-AA-R <input type="checkbox"/> W-CARB-AA<br><input type="checkbox"/> W-PCL-SQ-R <input type="checkbox"/> W-UHERB-AA <input type="checkbox"/> W-GLYPH <input type="checkbox"/> W-SUC-AA-R                                                                               |  |  | <input type="checkbox"/> Other                                                                             |            |            |                                         |
|                             |                                                                                                                                                                                                                                                                                                                                                                             |  |  | <input checked="" type="checkbox"/> Ice                                                                    |            |            |                                         |

Notes:

Kit-C, Bacteria,  
Tracers, Markers  
(PCR-BacR, PCR HF-183)Caney Creek  
Upstream of  
US 90

WIN ID/Field ID

G1WA0014

Signature:

Date:

Enter Field Parameters, Verify Station ID In LIMS DMT:

Blake 9-6-18

QC Station ID, Field Parameters In LIMS DMT:

C2 9-10-18

Scan/Save Field Sheets

C2 9-10-18

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 name.

Meter ID: Biology #2

RQ: 2018-05-28-12  
2018-09-03-22

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 06/25/2018

| 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.            | Ben Ralys     | 9/5/18 | 7:11       | 21.19 | 8.89            | 8.88            | 100.0 | 55.3         | —          | (P) F       | (L) F       |
| ICV                | Ben Ralys     | 9/5/18 | 7:13       | 21.23 | 8.88            | 8.88            | 100.1 | 55.3         | —          | (P) F       | (L) F       |
| CCV                | Blake Spencer | 9/5/18 | 1536       | 21.91 | 8.59            | 8.76            | 102.5 | 58.4         | —          | (P) F       | (L) F       |
| CCV                |               |        |            |       |                 |                 |       |              |            | P / F       | L / F       |

DO Acceptance criteria from Table  $\pm 0.3$  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 $\mu$ mhos/cm | Meter Reading $\mu$ mhos/cm | Pass / Fail | Lab / Field |
|---------------------|---------------|--------|------------|---------|-------------|------------------------|-----------------------------|-------------|-------------|
| Calibr.             | Ben Ralys     | 9/5/18 | 7:15       | 180403A | 4/2019      | 1,000                  | 1,000                       | (P) F       | (L) F       |
| ICV                 | Ben Ralys     | 9/5/18 | 7:17       | 180403A | 4/2019      | 1,000                  | 1,000                       | (P) F       | (L) F       |
| CCV                 | Blake Spencer | 9/5/18 | 1540       | 180621B | 07/2019     | 50,000                 | 50,535                      | (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.            | Ben Ralys     | 9/5/18 | 0721       | 180621E | 01/2020     | 7.0          | 7.00             | 12.3   | (P) F       | (L) F       |
| Calibr.            | Blake Spencer | 9/5/18 | 0725       | 180510B | 05/2019     | 4.0          | 4.00             | 182.5  | (P) F       | (L) F       |
| Calibr.            | Blake Spencer | 9/5/18 | 0730       | 180221E | 09/2019     | 10.0         | 10.00            | -160.6 | (P) F       | (L) F       |
| ICV                | Blake Spencer | 9/5/18 | 0731       | 180221E | 09/2019     | 10.0         | 10.00            | -160.7 | (P) F       | (L) F       |
| CCV                | Blake Spencer | 9/5/18 | 1545       | 180510B | 05/2019     | 4.0          | 3.97             | 181.6  | (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)

Is meter equipped with depth sensor? Yes No If yes, list date of last quarterly depth verification 06/25/2018

| 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                   | Blake Spencer | 9/5/18 | 0735       | 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:

Florida Department of Environmental Protection  
Central Laboratory Submittal Form

Customer: WAS-SECT

Requester: Curtis Musson

Field Report Prepared By: Ben Raby, Blake Spencer

Project ID: SMP

Collected By: Ben Raby, Blake Spencer

Sampling Agency: FDEP

| Location                      | WIN ID/Field ID              | Field ID | WIN/STORET # | Latitude  | Longitude  | dd                                  | dms | dd                                  | dms | Salinity (ppt) | Temp (C) | pH | Matrix (type, e.g., Salt, Fresh, etc) | Collection Date | Comp Grab | Time                                | Comments | Diss. Oxygen  | Sample Depth | Sp. Conductance (umho/cm) | Total Res. Chlorine (mg/L) | % sat | Composite end Date | Bottle Group(s) |
|-------------------------------|------------------------------|----------|--------------|-----------|------------|-------------------------------------|-----|-------------------------------------|-----|----------------|----------|----|---------------------------------------|-----------------|-----------|-------------------------------------|----------|---------------|--------------|---------------------------|----------------------------|-------|--------------------|-----------------|
| Little River                  | 100 meters upstream of US 90 |          |              | 30.554619 | -84.513191 | <input checked="" type="checkbox"/> |     | <input checked="" type="checkbox"/> |     |                |          |    |                                       | Fresh           | 9/5/18    | <input checked="" type="checkbox"/> | 0830     | Not Collected |              |                           |                            |       |                    | A               |
| Caney Creek                   | Upstream of JS 90            |          |              | 30.5325   | -83.9501   | <input checked="" type="checkbox"/> |     | <input checked="" type="checkbox"/> |     |                |          |    |                                       | Fresh           | 9/5/18    | <input checked="" type="checkbox"/> | 0830     |               | 91.4         | 0.15                      |                            |       |                    | A, B            |
| Caney Creek Upstream of US 90 | QC Dup                       |          |              | 30.5325   | -83.9501   | <input checked="" type="checkbox"/> |     | <input checked="" type="checkbox"/> |     |                |          |    |                                       | Fresh           | 9/5/18    | <input checked="" type="checkbox"/> | 0830     |               | 91.4         | 0.15                      |                            |       |                    | D               |
| Field Blank                   | DI Water                     |          |              | 30.5325   | -83.9501   | <input checked="" type="checkbox"/> |     | <input checked="" type="checkbox"/> |     |                |          |    |                                       | Fresh           | 9/5/18    | <input checked="" type="checkbox"/> | 0830     |               | 91.4         | 0.15                      |                            |       |                    | C               |

|                  |                        |                                 |                              |              |                        |
|------------------|------------------------|---------------------------------|------------------------------|--------------|------------------------|
| Relinquished By: | Date/Time: 9/5/18 1153 | Shipping Method: Hand Delivered | Number of Coolers Shipped: 2 | Received By: | Date/Time: 9/5/18 1153 |
|------------------|------------------------|---------------------------------|------------------------------|--------------|------------------------|

**Florida Department of Environmental Protection  
Central Laboratory Submittal Form**

Little R., Black C., Wards C., Caney C.

Customer: WAS-SECT

Requester: Curtis Musson

Project ID: SMP

Collected By: Ben Raby, Blake Spencer

Field Report Prepared By: Ben Raby, Blake Spencer

Sampling Agency: FDEP

|              |            |                   |     |                                       |        |                                 |      |               |      |                           |            |
|--------------|------------|-------------------|-----|---------------------------------------|--------|---------------------------------|------|---------------|------|---------------------------|------------|
| Location     |            | Wards Creek       |     | WIN ID / Field ID                     |        | Collection (comp begin or grab) |      | Composite end |      | Bottle Group(s)           |            |
| Field ID     |            | Upstream of CR259 |     | Date                                  | 9/5/18 | Time                            | 0925 | Diss. Oxygen  | mg/L | Total Res. Chlorine       | (See pg 2) |
| WIN/STORET # |            |                   |     | Matrix (type, e.g., Salt, Fresh, etc) | fresh  |                                 |      |               |      |                           |            |
| Latitude     | 30.605     | dd                | dms | Temp (C)                              | 24.28  | pH                              | 5.56 | Sample Depth  | ft   | Sp. Conductance (umho/cm) | 40         |
| Longitude    | -83.893257 | dd                | dms | Salinity (ppt)                        | 0.02   | Comments                        |      |               |      |                           |            |
| Location     |            | Black Creek       |     | WIN ID                                |        | Collection (comp begin or grab) |      | Composite end |      | Bottle Group(s)           |            |
| Field ID     |            | upstream of CR158 |     | Date                                  | 9/5/18 | Time                            |      | Diss. Oxygen  | mg/L | Total Res. Chlorine       | (See pg 2) |
| WIN/STORET # |            |                   |     | Matrix (type, e.g., Salt, Fresh, etc) | fresh  |                                 |      |               |      |                           |            |
| Latitude     | 30.472981  | dd                | dms | Temp (C)                              |        | pH                              |      | Sample Depth  | ft   | Sp. Conductance (umho/cm) |            |
| Longitude    | -84.057057 | dd                | dms | Salinity (ppt)                        |        | Comments                        |      | Not Collected |      |                           |            |
| Location     |            |                   |     | WIN ID                                |        | Collection (comp begin or grab) |      | Composite end |      | Bottle Group(s)           |            |
| Field ID     |            |                   |     | Date                                  |        | Time                            |      | Diss. Oxygen  | mg/L | Total Res. Chlorine       | (See pg 2) |
| WIN/STORET # |            |                   |     | Matrix (type, e.g., Salt, Fresh, etc) |        |                                 |      |               |      |                           |            |
| Latitude     |            | dd                | dms | Temp (C)                              |        | pH                              |      | Sample Depth  | ft   | Sp. Conductance (umho/cm) |            |
| Longitude    |            | dd                | dms | Salinity (ppt)                        |        | Comments                        |      |               |      |                           |            |
| Location     |            |                   |     | WIN ID                                |        | Collection (comp begin or grab) |      | Composite end |      | Bottle Group(s)           |            |
| Field ID     |            |                   |     | Date                                  |        | Time                            |      | Diss. Oxygen  | mg/L | Total Res. Chlorine       | (See pg 2) |
| WIN/STORET # |            |                   |     | Matrix (type, e.g., Salt, Fresh, etc) |        |                                 |      |               |      |                           |            |
| Latitude     |            | dd                | dms | Temp (C)                              |        | pH                              |      | Sample Depth  | ft   | Sp. Conductance (umho/cm) |            |
| Longitude    |            | dd                | dms | Salinity (ppt)                        |        | Comments                        |      |               |      |                           |            |

|                                                                                                        |                        |                                 |                              |                                                                                                  |                        |
|--------------------------------------------------------------------------------------------------------|------------------------|---------------------------------|------------------------------|--------------------------------------------------------------------------------------------------|------------------------|
| Relinquished By:  | Date/Time: 9/5/18 1153 | Shipping Method: Hand Delivered | Number of Coolers Shipped: 2 | Received By:  | Date/Time: 9/5/18 1155 |
|--------------------------------------------------------------------------------------------------------|------------------------|---------------------------------|------------------------------|--------------------------------------------------------------------------------------------------|------------------------|

|          |                                                                                                    |                |                 |               |               |                                     |   |
|----------|----------------------------------------------------------------------------------------------------|----------------|-----------------|---------------|---------------|-------------------------------------|---|
| 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: 4 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 2 |
| Group: A | Bottle Type:<br>CHLSUITE-W                                                                         | BP-1L          | # of Bottles: 4 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 2 |
| Group: A | Bottle Type:<br>ECOLI-18QT                                                                         | P-250ML-WO-THI | # of Bottles: 4 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 2 |
| Group: A | Bottle Type:<br>W-ICP<br>W-ICPMS                                                                   | P-500ML        | # of Bottles: 4 | Preservative: | HNO3          | Enter Number of Bottles Sent to Lab | 2 |
| 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: 4 | Preservative: | ICE And H2SO4 | Enter Number of Bottles Sent to Lab | 2 |
| Group: A | Bottle Type:<br>W-PO4-F                                                                            | P-125ML        | # of Bottles: 4 | Preservative: | FILTER-ICE    | Enter Number of Bottles Sent to Lab | 2 |
| Group: B | Bottle Type:<br>PCR-BACR<br>PCR-HF183                                                              | QPCR-P-500ML   | # of Bottles: 1 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 1 |
| 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: C | Bottle Type:<br>ALKALINITY<br>TURBIDITY                                                            | P-1L           | # of Bottles: 1 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 1 |

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

|            |              |                |                 |               |               |                                     |
|------------|--------------|----------------|-----------------|---------------|---------------|-------------------------------------|
| Group: D   | Bottle Type: | P-1L           | # of Bottles: 1 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
| W-TSS      |              |                |                 |               |               |                                     |
| Group: D   | Bottle Type: | BP-1L          | # of Bottles: 1 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
| CHLSUITE-W |              |                |                 |               |               |                                     |
| Group: D   | Bottle Type: | P-250ML-WO-THI | # of Bottles: 1 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
| ECOLI-18QT |              |                |                 |               |               |                                     |
| Group: D   | Bottle Type: | QPCR-P-500ML   | # of Bottles: 1 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
| PCR-BACR   |              |                |                 |               |               |                                     |
| PCR-HF183  |              |                |                 |               |               |                                     |
| Group: D   | Bottle Type: | BG-500ML       | # of Bottles: 1 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
| W-E8321-DI |              |                |                 |               |               |                                     |
| W-E8321-MS |              |                |                 |               |               |                                     |
| Group: D   | Bottle Type: | P-500ML        | # of Bottles: 1 | Preservative: | HNO3          | Enter Number of Bottles Sent to Lab |
| W-ICP      |              |                |                 |               |               |                                     |
| W-ICPMS    |              |                |                 |               |               |                                     |
| Group: D   | Bottle Type: | P-500ML        | # of Bottles: 1 | Preservative: | ICE And H2SO4 | Enter Number of Bottles Sent to Lab |
| W-NH3      |              |                |                 |               |               |                                     |
| W-NO2NO3   |              |                |                 |               |               |                                     |
| W-S-A-TP   |              |                |                 |               |               |                                     |
| W-TKN      |              |                |                 |               |               |                                     |
| W-TOC      |              |                |                 |               |               |                                     |
| Group: D   | Bottle Type: | P-125ML        | # of Bottles: 1 | Preservative: | FILTER-ICE    | Enter Number of Bottles Sent to Lab |
| W-PO4-F    |              |                |                 |               |               |                                     |

Lot# NH-726120  
Exp. Date: 9/18/18

H2SO4  
LOT# 98085170  
EXP: 03/26/19

Lot# 10827054

Cooler Packing Worksheet for Request: RQ-2018-09-03-22

Little R., Black C., Wards C., Caney C.

Ship Cooler On: 8/30/2018

Customer/Project: WAS-SECT/SMP

Assigned To: SHAIK\_A

Requester: Curtis Musson

Priority: 3

850-245-8453

2600 Blair Stone Rd

Tallahassee, FL 32399

Attn: Curtis Musson

Comments:

No preservatives needed.

Group A: Nutrients, Metals, E. coli

Group B: Tracers, PCR-BacR, PCR-HF183

Group C: QC Blank: Nutrients, Metals, E. coli, Tracers

Group D: QC DUP: Nutrients, Metals, E. coli, Tracers, PCR-BacR, PCR-HF183

Packing Notes:

No FedEx Labels

No Trash Bags

Requested Analyses:

**Bottle Group: A**

**# of Sites: 4**

Container ID: P-1L

Qty: 4

Preservation: ICE

Lot #

00071878

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 using a maximum of 250 mL of sample

Container ID: BP-1L

Qty: 4

Preservation: ICE

Lot #

1236361

Description: Brown Plastic Bottle 1L

**Analysis**

CHLSUITE-W

**Description**

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

Container ID: P-250ML-WO-THI

Qty: 4

Preservation: ICE

Lot #

L18038

Description: 250 ml Sterilized no tablet

Analysis

ECOLI-18QT

Description

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

Container ID: P-500ML

Qty: 4

Preservation: HNO3

Lot #

00071864

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: P-500ML

Qty: 4

Preservation: ICE And H2SO4

Lot #

00071864

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: 4

Preservation: FILTER-ICE

Lot #

00070886

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: 1

Container ID: QPCR-P-500ML

Qty: 1

Preservation: ICE

Lot #

00071457

Description: 500ml Sterile Nalgene

Affix PCR Instruction Label to container

Analysis

PCR-BACR

PCR-HF183

Description

Detection and quantification of Ruminant specific Bacteroidetes BacR genetic marker with quantitative polymerase chain reaction

Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction

Container ID: BG-500ML

Qty: 2 Preservation: ICE

Lot # 55071185

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: C

# of Sites: 1

Container ID: P-1L

Qty: 1 Preservation: ICE

Lot # 550711878

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 using a maximum of 250 mL of sample

Container ID: BP-1L

Qty: 1 Preservation: ICE

Lot # 1232362

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-250ML-WO-THI

Qty: 1 Preservation: ICE

Lot # 118038

Description: 250 ml Sterilized no tablet

Analysis

ECOLI-18QT

Description

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

Container ID: BG-500ML

Qty: 1 Preservation: ICE

Lot # 55071188

Description: Brown Glass Bottle 500ML

Affix BLUE dot to container.

Analysis

Description

W-E8321-DI  
W-E8321-MS

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: 1 Preservation: HNO3

Lot # 0071864

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: P-500ML

Qty: 1 Preservation: ICE And H2SO4

Lot # 0071864

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: 1 Preservation: FILTER-ICE

Lot # 0070880

Description: Plastic Bottle 125 mL

**Analysis**

W-PO4-F

**Description**

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

**Bottle Group: D**

**# of Sites: 1**

Container ID: P-1L

Qty: 1 Preservation: ICE

Lot # 0071878

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 using a maximum of 250 mL of sample

Container ID: BP-1L

Qty: 1 Preservation: ICE

Lot # 1236362

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-250ML-WO-THI

Qty: 1 Preservation: ICE

Lot # 1180038

Description: 250 ml Sterilized no tablet

Analysis

ECOLI-18QT

Description

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

Container ID: QPCR-P-500ML

Qty: 1 Preservation: ICE

Lot # 00071457

Description: 500ml Sterile Nalgene

Affix PCR Instruction Label to container

Analysis

PCR-BACR

PCR-HF183

Description

Detection and quantification of Ruminant specific Bacteroidetes BacR genetic marker with quantitative polymerase chain reaction

Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction

Container ID: BG-500ML

Qty: 1 Preservation: ICE

Lot # 00071185

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: 1 Preservation: HNO3

Lot # 00071864

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: P-500ML

Qty: 1 Preservation: ICE And H2SO4

Lot # 000-11864

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: 1 Preservation: FILTER-ICE

Lot # 000-70886

Description: Plastic Bottle 125 mL

**Analysis**

W-PO4-F

**Description**

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Cooler Packed By: ADJ

Number of Coolers: 3

Date: 8-28-18

Kit must also include:

- ☒ Field Sheets
- ☐ Temperature Control Bottle
- ☒ 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-2018-09-03-22**