



# FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: **Sweetwater Branch @ Cody Church Rd**

Date: **6/19/19**  
(mm/dd/yyyy)

WIN/ Field ID: **G1TLHR0040**

WBID: **965**

Latitude: **30.39001013**  
(Decimal Degrees)

County: **JEFFERSON**

ORG ID: **21FLTLHR**

Longitude: **-84.0585**  
(Decimal Degrees)

Receiving Body of Water: **St Marks River**

RQ: **2019-06-17-11**

| Sampling Team Members |  |  |  |  | WQ Measurements | Sample Collection | Documentation | Preservation | Preservation Check |
|-----------------------|--|--|--|--|-----------------|-------------------|---------------|--------------|--------------------|
| M. A. Eckles          |  |  |  |  | X               | X                 |               |              |                    |
| P. M. Blair           |  |  |  |  |                 | 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 type="checkbox"/> Syringe  |                               |
| <input type="checkbox"/> Dipper                      | <input type="checkbox"/> Other    |                               |

Depth Measured with Equipment ID

| Collection Method                              |                                         |
|------------------------------------------------|-----------------------------------------|
| <input checked="" type="checkbox"/> Wading     | <input type="checkbox"/> Canoe/Kayak    |
| <input checked="" 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# **154177**

Matrix: **Fresh** / Marine / DI

Photos: Yes / **NO** / Flow: No Flow / Intestinal / **Flowing** / NA

Tide: Rising / Falling / Slack / **NA**

Tide Times: High Low

| Time Zone  | Time         | Total Depth (m) | Sample Depth (m) | Secchi Disk (m) | DO (mg/L)   | DO (%SAT)   | pH          | Salinity (PPT) | Sp COND (umhos/cm) | Temp. (C°)  |
|------------|--------------|-----------------|------------------|-----------------|-------------|-------------|-------------|----------------|--------------------|-------------|
| <b>EST</b> | <b>14:10</b> | <b>0.67</b>     | <b>0.3</b>       | <b>0.67</b>     | <b>7.43</b> | <b>88.4</b> | <b>6.45</b> | <b>06.02</b>   | <b>44.2</b>        | <b>24.1</b> |
| CEN        |              |                 |                  | <b>(S)</b>      |             |             |             |                |                    |             |

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         | <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 | <b>9129100</b> | <b>5/9/20</b> | <input 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-PO4-F <input checked="" type="checkbox"/> Field Filtered 0.45 um Filter                                                                                                            | <input checked="" type="checkbox"/> Ice                                           |                |               |                             |
| 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-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 checked="" 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 checked="" type="checkbox"/> W-E8321-DI <input checked="" type="checkbox"/> W-E8321-MS                                                                                                                            | <input checked="" 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:

Field/WIN ID → **G1TLHR0040**

Location ↓ **Sweetwater Branch @ Cody Church Rd**

Signature: \_\_\_\_\_ Date: **6/19/19**

LIMS EVENT ID: WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT: QC Station ID, Field Parameters In LIMS DMT:

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



Run 3

## Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: TLH-ROC

Requester: Michael Eckles

Field Report Prepared By: M.A. Eckles

Project ID: SMP

Collected By: Eckles

Sampling Agency: 803-11

M.A. Eckles

|          |                                    |                        |                              |           |                              |                |      |                                       |         |      |       |                                          |                           |       |                 |
|----------|------------------------------------|------------------------|------------------------------|-----------|------------------------------|----------------|------|---------------------------------------|---------|------|-------|------------------------------------------|---------------------------|-------|-----------------|
| Lo       | Field/WIN ID →                     |                        | <input type="checkbox"/> dd  | Longitude | <input type="checkbox"/> dd  | Salinity (ppt) | 0.19 | Collection (comp begin or grab)       | 6/19/19 | Time | 12:15 | East                                     | Composite end             | Time  | Bottle Group(s) |
| Field    | Location ↓                         | G1TLHR0084             | <input type="checkbox"/> dms |           | <input type="checkbox"/> dms |                |      | Matrix (type, e.g., Salt, Fresh, etc) | Fresh   |      |       | <input checked="" type="checkbox"/> mg/L | Total Res. Chlorine       |       | (See pg 2)      |
| WI       |                                    | SPRING CREEK @ US98    | <input type="checkbox"/> dms |           | <input type="checkbox"/> dms |                |      | Temp (c)                              | 22.7    |      |       | <input type="checkbox"/> ft              | Sp. Conductance (umho/cm) | 402.1 | C               |
| Latitude |                                    |                        | <input type="checkbox"/> dd  | Longitude | <input type="checkbox"/> dms |                |      | pH                                    | 7.48    |      |       | <input type="checkbox"/> m               |                           |       |                 |
| Local    | Field/WIN ID →                     |                        | <input type="checkbox"/> dd  | Longitude | <input type="checkbox"/> dms |                |      | Comp                                  | 6.18    |      |       | <input checked="" type="checkbox"/> mg/L | Total Res. Chlorine       |       | B               |
| Field    | Location ↓                         | G1TLHR0067             | <input type="checkbox"/> dms |           | <input type="checkbox"/> dms |                |      | Matrix (type, e.g., Salt, Fresh, etc) | Fresh   |      |       | <input type="checkbox"/> ft              | Sp. Conductance (umho/cm) | 366.8 |                 |
| WIN      |                                    | WOODS CREEK @ OSTEE RD | <input type="checkbox"/> dms |           | <input type="checkbox"/> dms |                |      | Temp (c)                              | 22.3    |      |       | <input type="checkbox"/> m               |                           |       |                 |
| Latitude |                                    |                        | <input type="checkbox"/> dd  | Longitude | <input type="checkbox"/> dms |                |      | pH                                    | 7.64    |      |       | <input type="checkbox"/> m               |                           |       |                 |
| Loc      | Field/WIN ID →                     |                        | <input type="checkbox"/> dd  | Longitude | <input type="checkbox"/> dms |                |      | Comp                                  | 6.18    |      |       | <input checked="" type="checkbox"/> mg/L | Total Res. Chlorine       |       | B               |
| Field    | Location ↓                         | G1TLHR0041             | <input type="checkbox"/> dms |           | <input type="checkbox"/> dms |                |      | Matrix (type, e.g., Salt, Fresh, etc) | Fresh   |      |       | <input type="checkbox"/> ft              | Sp. Conductance (umho/cm) | 27.7  |                 |
| WIN      | Moore Branch @ Cody Church Rd      |                        | <input type="checkbox"/> dms |           | <input type="checkbox"/> dms |                |      | Temp (c)                              | 23.6    |      |       | <input type="checkbox"/> m               |                           |       |                 |
| Latitude |                                    |                        | <input type="checkbox"/> dd  | Longitude | <input type="checkbox"/> dms |                |      | pH                                    | 5.10    |      |       | <input type="checkbox"/> m               |                           |       |                 |
| Location | Field/WIN ID →                     |                        | <input type="checkbox"/> dd  | Longitude | <input type="checkbox"/> dms |                |      | Comp                                  | 0.01    |      |       | <input checked="" type="checkbox"/> mg/L | Total Res. Chlorine       |       | B               |
| Field ID | Location ↓                         | G1TLHR0040             | <input type="checkbox"/> dms |           | <input type="checkbox"/> dms |                |      | Matrix (type, e.g., Salt, Fresh, etc) | Fresh   |      |       | <input type="checkbox"/> ft              | Sp. Conductance (umho/cm) | 44.2  |                 |
| WIN/STOR | Sweetwater Branch @ Cody Church Rd |                        | <input type="checkbox"/> dd  | Longitude | <input type="checkbox"/> dms |                |      | Temp (c)                              | 24.1    |      |       | <input type="checkbox"/> m               |                           |       |                 |
| Latitude |                                    |                        | <input type="checkbox"/> dd  | Longitude | <input type="checkbox"/> dms |                |      | pH                                    | 6.45    |      |       | <input type="checkbox"/> m               |                           |       |                 |

|                         |                    |                  |                              |                 |                            |
|-------------------------|--------------------|------------------|------------------------------|-----------------|----------------------------|
| Relinquished By: Eckles | Date/Time: 6/19/19 | Shipping Method: | Number of Coolers Shipped: 1 | Received By: ME | Date/Time: 6-19-19 / 15:05 |
|-------------------------|--------------------|------------------|------------------------------|-----------------|----------------------------|

|          |                                                                                  |                |                 |               |               |                                     |
|----------|----------------------------------------------------------------------------------|----------------|-----------------|---------------|---------------|-------------------------------------|
| Group: A | Bottle Type:<br>ALKALINITY<br>TURBIDITY<br>W-BR-IC<br>W-F<br>W-TSS               | P-1L           | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
| Group: A | Bottle Type:<br>CHLSUITE-W                                                       | BP-1L          | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
| Group: A | Bottle Type:<br>ENT-24-QT                                                        | P-250ML-WO-THI | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
| Group: A | Bottle Type:<br>PCR-FILTER                                                       | QPCR-P-500ML   | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
| Group: A | Bottle Type:<br>W-E8321-DI<br>W-E8321-MS                                         | BG-500ML       | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
| Group: A | Bottle Type:<br>W-ICP<br>W-ICPMS                                                 | P-500ML        | # of Bottles: 2 | Preservative: | HNO3          | Enter Number of Bottles Sent to Lab |
| 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: 2 | Preservative: | ICE And H2SO4 | Enter Number of Bottles Sent to Lab |
| Group: A | Bottle Type:<br>W-PO4-F                                                          | P-125ML        | # of Bottles: 2 | Preservative: | FILTER-ICE    | Enter Number of Bottles Sent to Lab |
| Group: B | Bottle Type:<br>ALKALINITY<br>TURBIDITY<br>W-CL-IC<br>W-COLOR<br>W-F<br>W-SO4-IC | P-1L           | # of Bottles: 3 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |

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

|          |                                                                         |                 |                             |                                     |
|----------|-------------------------------------------------------------------------|-----------------|-----------------------------|-------------------------------------|
| Group: C | Bottle Type: P-250ML-WO-THI<br>ECOLI-18QT                               | # of Bottles: 3 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| Group: C | Bottle Type: P-500ML<br>W-NH3<br>W-NO2NO3<br>W-S-A-TP<br>W-TKN<br>W-TOC | # of Bottles: 3 | Preservative: ICE And H2SO4 | Enter Number of Bottles Sent to Lab |
| Group: C | Bottle Type: P-125ML<br>W-PO4-F                                         | # of Bottles: 3 | Preservative: FILTER-ICE    | Enter Number of Bottles Sent to Lab |
| Group: D | Bottle Type: P-1L<br>ALKALINITY<br>TURBIDITY<br>W-BR-IC<br>W-F<br>W-TSS | # of Bottles: 1 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| Group: D | Bottle Type: BP-1L<br>CHLSUITE-W                                        | # of Bottles: 1 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| Group: D | Bottle Type: P-250ML-WO-THI<br>ENT-24-QT                                | # of Bottles: 1 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| Group: D | Bottle Type: P-500ML<br>W-NH3<br>W-NO2NO3<br>W-S-A-TP<br>W-TKN<br>W-TOC | # of Bottles: 1 | Preservative: ICE And H2SO4 | Enter Number of Bottles Sent to Lab |
| Group: D | Bottle Type: P-125ML<br>W-PO4-F                                         | # of Bottles: 1 | Preservative: FILTER-ICE    | Enter Number of Bottles Sent to Lab |
| Group: E | Bottle Type: P-1L<br>ALKALINITY<br>TURBIDITY<br>W-BR-IC<br>W-F          | # of Bottles: 1 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |

|          |              |                |                 |               |               |                                     |
|----------|--------------|----------------|-----------------|---------------|---------------|-------------------------------------|
| Group: E | Bottle Type: | P-1L           | # of Bottles: 1 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
|          | W-TSS        |                |                 |               |               |                                     |
| Group: E | Bottle Type: | P-250ML-WO-THI | # of Bottles: 1 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
|          | ENT-24-QT    |                |                 |               |               |                                     |
| Group: E | Bottle Type: | QPCR-P-500ML   | # of Bottles: 1 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
|          | PCR-FILTER   |                |                 |               |               |                                     |
| Group: E | Bottle Type: | P-500ML        | # of Bottles: 1 | Preservative: | HNO3          | Enter Number of Bottles Sent to Lab |
|          | W-ICP        |                |                 |               |               |                                     |
|          | W-ICPMS      |                |                 |               |               |                                     |
| Group: E | 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: E | Bottle Type: | P-125ML        | # of Bottles: 1 | Preservative: | FILTER-ICE    | Enter Number of Bottles Sent to Lab |
|          | W-PO4-F      |                |                 |               |               |                                     |



# 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: 154177

RQ: 2019-06-17-40

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 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.            | M.A. Eckles | 6/19/19 | 8:10       | 21.6    | 753.3           | 8.8             | 99.4            | 8.81 |              | 0.775      | P/F         | L/F         |
| ICV                | M.A. Eckles | 6/19/19 | 8:15       | 21.1    | 755.4           | 8.8             | 8.84            | 99.4 |              |            | P/F         | L/F         |
| CCV                | M.A. Eckles | 6/19/19 | 15:00      | 21.3    | 755.1           | 8.8             | 8.81            | 99.5 |              |            | 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. 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.             | M.A. Eckles | 6/19/19 | 8:20       | 190405A | 4/20        | 1000                   | 1002                        | P/F         | L/F         |
| ICV                 | M.A. Eckles | 6/19/19 | 8:25       | 2808889 | 7/20        | 100                    | 141                         | P/F         | L/F         |
| CCV                 | M.A. Eckles | 6/19/19 | 15:05      | 2808889 | 7/20        | 100                    | 102                         | P/F         | L/F         |
| CCV                 | M.A. Eckles | 6/19/19 | 15:10      | 1809270 | 10/19       | 500                    | 502                         | 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 | Temp °C | Meter reading SU | mV    | Pass / Fail | Lab / Field |
|--------------------|-------------|---------|------------|----------|-------------|--------------|---------|------------------|-------|-------------|-------------|
| Calibr.            | M.A. Eckles | 6/19/19 | 8:20       | 180621E  | 1/20        | 7.02         | 21.9    | 7.73             | 17.3  | P/F         | L/F         |
| Calibr.            | M.A. Eckles | 6/19/19 | 8:25       | 1900405B | 10/20       | 4.01         | 21.9    | 4.0              | 153.9 | P/F         | L/F         |
| Calibr.            | M.A. Eckles | 6/19/19 | 8:40       | 180621F  | 1/20        | 10.03        | 21.8    | 10.04            | 178.5 | P/F         | L/F         |
| ICV                | M.A. Eckles | 6/19/19 | 8:45       | 180621F  | 1/20        | 10.03        | 20.8    | 10.04            | 179.6 | P/F         | L/F         |
| CCV                | M.A. Eckles | 6/19/19 | 15:15      | 1900405B | 10/20       | 4.0          | 21.6    | 4.04             | 153.3 | P/F         | L/F         |
| CCV                |             |         |            |          |             |              |         |                  | 153.3 | 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 56.02, slope from 4 to 7 94.84 (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                   | M.A. Eckles | 6/19/19 | 8:50       | 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 STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: **Moore Branch @ Cody Church Rd**

Date: **6/19/19**  
(mm/dd/yyyy)

WIN/ Field ID: **G1TLHR0041**

WBID: **977**

Latitude: **30.37470712**

County: **JEFFERSON**

ORG ID: **21FTLHR**

Longitude: **-84.05292**  
(Decimal Degrees)

Receiving Body of Water: **St Marks River**

RQ: **2019-06-17-41**  
(Decimal Degrees)

| Sampling Team Members                                          |       |                 |                  | WQ Measurements                                                                        | Sample Collection | Documentation | Preservation | Preservation Check                      | Sampling Equipment                                   |                                   |                               |  |
|----------------------------------------------------------------|-------|-----------------|------------------|----------------------------------------------------------------------------------------|-------------------|---------------|--------------|-----------------------------------------|------------------------------------------------------|-----------------------------------|-------------------------------|--|
| M.A. Eckles<br>P.M. Blair                                      |       |                 |                  | X                                                                                      | X                 | X             | X            | X                                       | <input checked="" type="checkbox"/> Sample Container | <input type="checkbox"/> Van Dorn | <input type="checkbox"/> Pole |  |
|                                                                |       |                 |                  |                                                                                        |                   |               |              |                                         | <input type="checkbox"/> Carboy                      | <input type="checkbox"/> Syringe  |                               |  |
|                                                                |       |                 |                  |                                                                                        |                   |               |              |                                         | <input type="checkbox"/> Dipper                      | <input type="checkbox"/> Other    |                               |  |
|                                                                |       |                 |                  | Depth Measured with Equipment ID                                                       |                   |               |              |                                         |                                                      |                                   |                               |  |
|                                                                |       |                 |                  | Collection Method                                                                      |                   |               |              |                                         |                                                      |                                   |                               |  |
|                                                                |       |                 |                  | <input type="checkbox"/> Wading <input type="checkbox"/> Canoe/Kayak                   |                   |               |              |                                         |                                                      |                                   |                               |  |
|                                                                |       |                 |                  | <input checked="" 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# <b>154177</b>                                                                |                   |               |              | Matrix: <u>Fresh</u> / Marine / DI      |                                                      |                                   |                               |  |
| Photos: Yes / <u>No</u>                                        |       |                 |                  | Flow: No Flow / Intestinal / <u>Flowing</u> / NA                                       |                   |               |              | Tide: Rising/ Falling/ Slack/ <u>NA</u> |                                                      |                                   |                               |  |
| Tide Times: High Low                                           |       |                 |                  |                                                                                        |                   |               |              |                                         |                                                      |                                   |                               |  |
| Time Zone                                                      | Time  | Total Depth (m) | Sample Depth (m) | Secchi Disk (m)                                                                        | DO (mg/L)         | DO (%SAT)     | pH           | Salinity (PPT)                          | Sp COND (umhos/cm)                                   | Temp. (C°)                        |                               |  |
| EST                                                            | 13:45 | 0.85            | 0.4              | 0.85                                                                                   | 7.00              | 82.5          | 5.10         | 0.01                                    | 27.7                                                 | 23.6                              |                               |  |
|                                                                |       | 0.4             | 0.3              | (S)                                                                                    |                   |               |              |                                         |                                                      |                                   |                               |  |
| CEN                                                            |       |                 |                  |                                                                                        |                   |               |              |                                         |                                                      |                                   |                               |  |

| 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 | 9/29/00                                              | 5/9/20     | <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-PQ4-F <input checked="" type="checkbox"/> Field Filtered 0.45 um Filter                                                                                                            | <input checked="" type="checkbox"/> Ice                                           |                                                      |            |                                        |                             |
| 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 checked="" 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                                           | Place Preservative Sticker(s) Here<br>(If Available) |            |                                        |                             |
| Molecular                   | <input checked="" 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 checked="" type="checkbox"/> Ice                                           |                                                      |            |                                        |                             |
| Tracers                     | <input checked="" type="checkbox"/> W-E8321-DI <input type="checkbox"/> W-E8321-MS                                                                                                                                       | <input checked="" 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-CAR8-AA      | <input type="checkbox"/> Ice                                                      |                                                      |            |                                        |                             |
| Phytoplankton               | <input type="checkbox"/> DTY-QN-C <input type="checkbox"/> PKD-QN-C                                                                                                                                                      |                                                                                   |                                                      |            |                                        |                             |

Notes:

Field/WIN ID → **G1TLHR0041**

Location ↓ **Moore Branch @ Cody Church Rd**

Signature: \_\_\_\_\_ Date: **6/19/19**

LIMS EVENT ID: \_\_\_\_\_ WIN Import ID: \_\_\_\_\_

Enter Field Parameters, Verify Station ID In LIMS DMT: \_\_\_\_\_ QC Station ID, Field Parameters In LIMS DMT: \_\_\_\_\_

Scan/Save Field Sheets \_\_\_\_\_ Migrate Data to WIN: \_\_\_\_\_ Verify Data In WIN: \_\_\_\_\_

(Initials/Date) (Initials/Date) (Initials/Date)



Florida Department of Environmental Protection  
Central Laboratory Submittal Form

Customer: TLH-ROC  
Project ID: SMP

Requester: Michael Eckles  
Collected By: Eckles

Field Report Prepared By: M.A. Eckles  
Sampling Agency: 803-11

| Lo       | Field/WIN ID →         | Collection (comp begin or grab)       | Temp (C) | pH | Salinity (ppt) | Comments | Sample Depth | Diss. Oxygen | Sp. Conductance (umho/cm) | Total Res. Chlorine (mg/L) | Bottle Group(s) |
|----------|------------------------|---------------------------------------|----------|----|----------------|----------|--------------|--------------|---------------------------|----------------------------|-----------------|
| Field    | Location ↓             | Matrix (type, e.g., Salt, Fresh, etc) |          |    |                |          |              |              |                           |                            |                 |
| WI       |                        |                                       |          |    |                |          |              |              |                           |                            |                 |
| Latitude | SPRING CREEK @ US98    |                                       |          |    |                |          |              |              |                           |                            |                 |
| Field    | Field/WIN ID →         | Collection (comp begin or grab)       | Temp (C) | pH | Salinity (ppt) | Comments | Sample Depth | Diss. Oxygen | Sp. Conductance (umho/cm) | Total Res. Chlorine (mg/L) | Bottle Group(s) |
| Field    | Location ↓             | Matrix (type, e.g., Salt, Fresh, etc) |          |    |                |          |              |              |                           |                            |                 |
| WI       |                        |                                       |          |    |                |          |              |              |                           |                            |                 |
| Latitude | WOODS CREEK @ OSTEE RD |                                       |          |    |                |          |              |              |                           |                            |                 |
| Field    | Field/WIN ID →         | Collection (comp begin or grab)       | Temp (C) | pH | Salinity (ppt) | Comments | Sample Depth | Diss. Oxygen | Sp. Conductance (umho/cm) | Total Res. Chlorine (mg/L) | Bottle Group(s) |
| Field    | Location ↓             | Matrix (type, e.g., Salt, Fresh, etc) |          |    |                |          |              |              |                           |                            |                 |
| WI       |                        |                                       |          |    |                |          |              |              |                           |                            |                 |
| Latitude |                        |                                       |          |    |                |          |              |              |                           |                            |                 |
| Field    | Field/WIN ID →         | Collection (comp begin or grab)       | Temp (C) | pH | Salinity (ppt) | Comments | Sample Depth | Diss. Oxygen | Sp. Conductance (umho/cm) | Total Res. Chlorine (mg/L) | Bottle Group(s) |
| Field    | Location ↓             | Matrix (type, e.g., Salt, Fresh, etc) |          |    |                |          |              |              |                           |                            |                 |
| WI       |                        |                                       |          |    |                |          |              |              |                           |                            |                 |
| Latitude |                        |                                       |          |    |                |          |              |              |                           |                            |                 |
| Field    | Field/WIN ID →         | Collection (comp begin or grab)       | Temp (C) | pH | Salinity (ppt) | Comments | Sample Depth | Diss. Oxygen | Sp. Conductance (umho/cm) | Total Res. Chlorine (mg/L) | Bottle Group(s) |
| Field    | Location ↓             | Matrix (type, e.g., Salt, Fresh, etc) |          |    |                |          |              |              |                           |                            |                 |
| WI       |                        |                                       |          |    |                |          |              |              |                           |                            |                 |
| Latitude |                        |                                       |          |    |                |          |              |              |                           |                            |                 |
| Field    | Field/WIN ID →         | Collection (comp begin or grab)       | Temp (C) | pH | Salinity (ppt) | Comments | Sample Depth | Diss. Oxygen | Sp. Conductance (umho/cm) | Total Res. Chlorine (mg/L) | Bottle Group(s) |
| Field    | Location ↓             | Matrix (type, e.g., Salt, Fresh, etc) |          |    |                |          |              |              |                           |                            |                 |
| WI       |                        |                                       |          |    |                |          |              |              |                           |                            |                 |
| Latitude |                        |                                       |          |    |                |          |              |              |                           |                            |                 |

|                                |                           |                               |                                     |                        |                                   |
|--------------------------------|---------------------------|-------------------------------|-------------------------------------|------------------------|-----------------------------------|
| Relinquished By: <u>Eckles</u> | Date/Time: <u>6/19/19</u> | Shipping Method: <u>FEDEX</u> | Number of Coolers Shipped: <u>1</u> | Received By: <u>KL</u> | Date/Time: <u>6-19-19 / 15:05</u> |
|--------------------------------|---------------------------|-------------------------------|-------------------------------------|------------------------|-----------------------------------|

|          |                                                                                  |                |                 |               |               |                                     |
|----------|----------------------------------------------------------------------------------|----------------|-----------------|---------------|---------------|-------------------------------------|
| Group: A | Bottle Type:<br>ALKALINITY<br>TURBIDITY<br>W-BR-IC<br>W-F<br>W-TSS               | P-1L           | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
| Group: A | Bottle Type:<br>CHLSUITE-W                                                       | BP-1L          | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
| Group: A | Bottle Type:<br>ENT-24-QT                                                        | P-250ML-WO-THI | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
| Group: A | Bottle Type:<br>PCR-FILTER                                                       | QPCR-P-500ML   | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
| Group: A | Bottle Type:<br>W-E8321-DI<br>W-E8321-MS                                         | BG-500ML       | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
| Group: A | Bottle Type:<br>W-ICP<br>W-ICPMS                                                 | P-500ML        | # of Bottles: 2 | Preservative: | HNO3          | Enter Number of Bottles Sent to Lab |
| 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: 2 | Preservative: | ICE And H2SO4 | Enter Number of Bottles Sent to Lab |
| Group: A | Bottle Type:<br>W-PO4-F                                                          | P-125ML        | # of Bottles: 2 | Preservative: | FILTER-ICE    | Enter Number of Bottles Sent to Lab |
| Group: B | Bottle Type:<br>ALKALINITY<br>TURBIDITY<br>W-CL-IC<br>W-COLOR<br>W-F<br>W-SO4-IC | P-1L           | # of Bottles: 3 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |

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

|          |                                                                         |                 |                             |                                     |
|----------|-------------------------------------------------------------------------|-----------------|-----------------------------|-------------------------------------|
| Group: C | Bottle Type: P-250ML-WO-THI<br>ECOLI-18QT                               | # of Bottles: 3 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| Group: C | Bottle Type: P-500ML<br>W-NH3<br>W-NO2NO3<br>W-S-A-TP<br>W-TKN<br>W-TOC | # of Bottles: 3 | Preservative: ICE And H2SO4 | Enter Number of Bottles Sent to Lab |
| Group: C | Bottle Type: P-125ML<br>W-PO4-F                                         | # of Bottles: 3 | Preservative: FILTER-ICE    | Enter Number of Bottles Sent to Lab |
| Group: D | Bottle Type: P-1L<br>ALKALINITY<br>TURBIDITY<br>W-BR-IC<br>W-F<br>W-TSS | # of Bottles: 1 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| Group: D | Bottle Type: BP-1L<br>CHLSUITE-W                                        | # of Bottles: 1 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| Group: D | Bottle Type: P-250ML-WO-THI<br>ENT-24-QT                                | # of Bottles: 1 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| Group: D | Bottle Type: P-500ML<br>W-NH3<br>W-NO2NO3<br>W-S-A-TP<br>W-TKN<br>W-TOC | # of Bottles: 1 | Preservative: ICE And H2SO4 | Enter Number of Bottles Sent to Lab |
| Group: D | Bottle Type: P-125ML<br>W-PO4-F                                         | # of Bottles: 1 | Preservative: FILTER-ICE    | Enter Number of Bottles Sent to Lab |
| Group: E | Bottle Type: P-1L<br>ALKALINITY<br>TURBIDITY<br>W-BR-IC<br>W-F          | # of Bottles: 1 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |

|            |                             |                 |                             |                                     |
|------------|-----------------------------|-----------------|-----------------------------|-------------------------------------|
| Group: E   | Bottle Type: P-1L           | # of Bottles: 1 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| W-TSS      |                             |                 |                             |                                     |
| Group: E   | Bottle Type: P-250ML-WO-THI | # of Bottles: 1 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| ENT-24-QT  |                             |                 |                             |                                     |
| Group: E   | Bottle Type: QPCR-P-500ML   | # of Bottles: 1 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| PCR-FILTER |                             |                 |                             |                                     |
| Group: E   | Bottle Type: P-500ML        | # of Bottles: 1 | Preservative: HNO3          | Enter Number of Bottles Sent to Lab |
| W-ICP      |                             |                 |                             |                                     |
| W-ICPMS    |                             |                 |                             |                                     |
| Group: E   | 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: E   | Bottle Type: P-125ML        | # of Bottles: 1 | Preservative: FILTER-ICE    | Enter Number of Bottles Sent to Lab |
| W-PO4-F    |                             |                 |                             |                                     |



# 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: 154177

RQ: 2019-06-17-40

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 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.            | M.A. Eckles | 6/19/19 | 8:10       | 21.6    | 753.3           | 8.8             | 99.4            | 8.81 |              | 0.775      | P/F         | L/F         |
| ICV                | M.A. Eckles | 6/19/19 | 8:15       | 21.1    | 755.4           | 8.8             | 8.84            | 99.4 |              |            | P/F         | L/F         |
| CCV                | M.A. Eckles | 6/19/19 | 15:00      | 21.3    | 755.1           | 8.8             | 8.81            | 99.5 |              |            | 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. 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.             | M.A. Eckles | 6/19/19 | 8:20       | 190405A | 4/20        | 1000                   | 1002                        | P/F         | L/F         |
| ICV                 | M.A. Eckles | 6/19/19 | 8:25       | 2808889 | 7/20        | 100                    | 141                         | P/F         | L/F         |
| CCV                 | M.A. Eckles | 6/19/19 | 15:05      | 2808889 | 7/20        | 100                    | 102                         | P/F         | L/F         |
| CCV                 | M.A. Eckles | 6/19/19 | 15:10      | 1809270 | 10/19       | 500                    | 502                         | 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 | Temp °C | Meter reading SU | mV    | Pass / Fail | Lab / Field |
|--------------------|-------------|---------|------------|----------|-------------|--------------|---------|------------------|-------|-------------|-------------|
| Calibr.            | M.A. Eckles | 6/19/19 | 8:20       | 180621E  | 1/20        | 7.02         | 21.9    | 7.73             | 173   | P/F         | L/F         |
| Calibr.            | M.A. Eckles | 6/19/19 | 8:25       | 190405B  | 10/20       | 4.01         | 21.9    | 4.0              | 153.9 | P/F         | L/F         |
| Calibr.            | M.A. Eckles | 6/19/19 | 8:40       | 180621F  | 1/20        | 10.03        | 21.8    | 10.04            | 178.5 | P/F         | L/F         |
| ICV                | M.A. Eckles | 6/19/19 | 8:45       | 180621F  | 1/20        | 10.03        | 20.8    | 10.04            | 179.6 | P/F         | L/F         |
| CCV                | M.A. Eckles | 6/19/19 | 15:15      | 1900405B | 10/20       | 4.0          | 21.6    | 4.04             | 153.3 | P/F         | L/F         |
| CCV                |             |         |            |          |             |              |         |                  | 153.3 | 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 56.02, slope from 4 to 7 94.84 (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                   | M.A. Eckles | 6/19/19 | 8:50       | 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 STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?  
Yes / No

WIN Station Name: Woods Creek @ Osteen Rd

Date: 6/19/19  
(mm/dd/yyyy)

WIN/ Field ID: G1TLHR0067

WBID: 3512

Latitude: 30.1141286

County: Taylor

ORG ID: 21FTLHR

Longitude: 83.6282066

Receiving Body of Water: Spring Creek

RQ: 2019-06-17-41  
(Decimal Degrees)

| Sampling Team Members                                                 |                                                                                                                                                                                                                          |                 |                  |                 | WQ Measurements                           | Sample Collection                                                                 | Documentation | Preservation   | Preservation Check                     | Sampling Equipment                                   |                                         |                               |  |  |
|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------|-----------------|-------------------------------------------|-----------------------------------------------------------------------------------|---------------|----------------|----------------------------------------|------------------------------------------------------|-----------------------------------------|-------------------------------|--|--|
| M.A. Eckles<br>P.M. Blair                                             |                                                                                                                                                                                                                          |                 |                  |                 | X                                         | X                                                                                 |               |                |                                        | <input checked="" type="checkbox"/> Sample Container | <input type="checkbox"/> Van Dorn       | <input type="checkbox"/> Pole |  |  |
|                                                                       |                                                                                                                                                                                                                          |                 |                  |                 |                                           |                                                                                   |               |                |                                        | <input type="checkbox"/> Carboy                      | <input type="checkbox"/> Syringe        |                               |  |  |
|                                                                       |                                                                                                                                                                                                                          |                 |                  |                 |                                           | X                                                                                 | X             | X              |                                        | <input type="checkbox"/> Dipper                      | <input type="checkbox"/> Other          |                               |  |  |
|                                                                       |                                                                                                                                                                                                                          |                 |                  |                 |                                           |                                                                                   |               |                |                                        | Depth Measured with Equipment ID                     |                                         |                               |  |  |
|                                                                       |                                                                                                                                                                                                                          |                 |                  |                 |                                           |                                                                                   |               |                |                                        | Collection Method                                    |                                         |                               |  |  |
|                                                                       |                                                                                                                                                                                                                          |                 |                  |                 |                                           |                                                                                   |               |                |                                        | <input type="checkbox"/> Wading                      | <input type="checkbox"/> Canoe/Kayak    |                               |  |  |
|                                                                       |                                                                                                                                                                                                                          |                 |                  |                 |                                           |                                                                                   |               |                |                                        | <input checked="" 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# 154177                          |                                                                                   |               |                |                                        | Matrix: Fresh / Marine / DI                          |                                         |                               |  |  |
| Photos: Yes / No                                                      |                                                                                                                                                                                                                          |                 |                  |                 | Flow: No Flow / Intertidal / Flowing / NA |                                                                                   |               |                |                                        | Tide: Rising/ Falling/ Slack/ NA                     |                                         |                               |  |  |
| Tide Times: High Low                                                  |                                                                                                                                                                                                                          |                 |                  |                 |                                           |                                                                                   |               |                |                                        |                                                      |                                         |                               |  |  |
| Time Zone                                                             | Time                                                                                                                                                                                                                     | Total Depth (m) | Sample Depth (m) | Secchi Disk (m) | DO (mg/L)                                 | DO (%SAT)                                                                         | pH            | Salinity (PPT) | Sp COND (umhos/cm)                     | Temp. (C°)                                           |                                         |                               |  |  |
| EST                                                                   | 12:40                                                                                                                                                                                                                    | 0.4             | 0.2              | 0.4             | 6.35                                      | 73.2                                                                              | 7.64          | 0.18           | 366.8                                  | 27.3                                                 |                                         |                               |  |  |
| CEN                                                                   |                                                                                                                                                                                                                          |                 |                  | (S)             |                                           |                                                                                   |               |                |                                        |                                                      |                                         |                               |  |  |
| 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                                                   | <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 | 9129/00       | 5/9/20         | <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-PO4-F <input checked="" type="checkbox"/> Field Filtered 0.45 um Filter                                                                                                            |                 |                  |                 |                                           | <input checked="" type="checkbox"/> Ice                                           |               |                |                                        |                                                      |                                         |                               |  |  |
| 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 checked="" 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 checked="" 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 checked="" type="checkbox"/> Ice                                           |               |                |                                        |                                                      |                                         |                               |  |  |
| Tracers                                                               | <input checked="" type="checkbox"/> W-E8321-DI <input type="checkbox"/> W-E8321-MS                                                                                                                                       |                 |                  |                 |                                           | <input checked="" 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                                                                                                                                                      |                 |                  |                 |                                           |                                                                                   |               |                |                                        |                                                      |                                         |                               |  |  |

Notes:

Field/WIN ID →

Location ↓



G1TLHR0067



WOODS CREEK @ OSTEEN RD

Signature:

Date:

6/19/19

LIMS EVENT ID:

WIN Import ID:

Enter Field Parameters, Verify Station ID in LIMS DMT:

QC Station ID, Field Parameters in LIMS DMT:

Scan/Save Field Sheets

Migrate Data to WIN:

Verify Data in WIN:

(Initials/Date)

(Initials/Date)

(Initials/Date)



Florida Department of Environmental Protection  
Central Laboratory Submittal Form

Customer: TLH-ROC  
Project ID: SMP

Requester: Michael Eckles  
Collected By: Eckles

Field Report Prepared By: M.A. Eckles  
Sampling Agency: 803-11

| Lo       | Field/WIN ID →                     | Barcode                                                                                                                                                                                                                    | G1TLHR0084 | Matrix (Type, e.g., Salt, Fresh, etc) | Temp (C) | pH       | Sample Depth                                                                                             | Diss. Oxygen                                                                       | % sat                                                        | Total Res. Chlorine                          | Bottle Group(s) |
|----------|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------|----------|----------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------|-----------------|
| WI       | SPRING CREEK @ US98                |                                                                                                                                                                                                                            |            | Fresh                                 | 22.7     | 7.48     | 0.3                                                                                                      | 0.13                                                                               |                                                              | 402.1                                        | C               |
| Latitude | dd dms                             | Longitude                                                                                                                                                                                                                  | dd dms     | Salinity (ppt)                        | 0.19     | Comments |                                                                                                          |                                                                                    |                                                              |                                              |                 |
| Loca     | Field/WIN ID →                     | Barcode <td>G1TLHR0067</td> <td>Matrix (Type, e.g., Salt, Fresh, etc)</td> <td>Temp (C)</td> <td>pH</td> <td>Sample Depth <td>Diss. Oxygen <td>% sat <td>Total Res. Chlorine <td>Bottle Group(s)</td> </td></td></td></td> | G1TLHR0067 | Matrix (Type, e.g., Salt, Fresh, etc) | Temp (C) | pH       | Sample Depth <td>Diss. Oxygen <td>% sat <td>Total Res. Chlorine <td>Bottle Group(s)</td> </td></td></td> | Diss. Oxygen <td>% sat <td>Total Res. Chlorine <td>Bottle Group(s)</td> </td></td> | % sat <td>Total Res. Chlorine <td>Bottle Group(s)</td> </td> | Total Res. Chlorine <td>Bottle Group(s)</td> | Bottle Group(s) |
| Field    | WOODS CREEK @ OSTEE RD             |                                                                                                                                                                                                                            |            | Fresh                                 | 22.3     | 7.64     | 0.2                                                                                                      | 0.35                                                                               |                                                              | 366.8                                        | B               |
| WIN      |                                    |                                                                                                                                                                                                                            |            |                                       |          |          |                                                                                                          |                                                                                    |                                                              |                                              |                 |
| Latitude | dd dms                             | Longitude                                                                                                                                                                                                                  | dd dms     | Salinity (ppt)                        | 6.18     | Comments |                                                                                                          |                                                                                    |                                                              |                                              |                 |
| Loc      | Field/WIN ID →                     | Barcode <td>G1TLHR0041</td> <td>Matrix (Type, e.g., Salt, Fresh, etc)</td> <td>Temp (C)</td> <td>pH</td> <td>Sample Depth <td>Diss. Oxygen <td>% sat <td>Total Res. Chlorine <td>Bottle Group(s)</td> </td></td></td></td> | G1TLHR0041 | Matrix (Type, e.g., Salt, Fresh, etc) | Temp (C) | pH       | Sample Depth <td>Diss. Oxygen <td>% sat <td>Total Res. Chlorine <td>Bottle Group(s)</td> </td></td></td> | Diss. Oxygen <td>% sat <td>Total Res. Chlorine <td>Bottle Group(s)</td> </td></td> | % sat <td>Total Res. Chlorine <td>Bottle Group(s)</td> </td> | Total Res. Chlorine <td>Bottle Group(s)</td> | Bottle Group(s) |
| Field    | Moore Branch @ Cody Church Rd      |                                                                                                                                                                                                                            |            | Fresh                                 | 23.6     | 5.10     | 0.4                                                                                                      | 0.2                                                                                |                                                              | 27.7                                         | B               |
| WIN      |                                    |                                                                                                                                                                                                                            |            |                                       |          |          |                                                                                                          |                                                                                    |                                                              |                                              |                 |
| Latitude | dd dms                             | Longitude                                                                                                                                                                                                                  | dd dms     | Salinity (ppt)                        | 0.01     | Comments |                                                                                                          |                                                                                    |                                                              |                                              |                 |
| Location | Field/WIN ID →                     | Barcode <td>G1TLHR0040</td> <td>Matrix (Type, e.g., Salt, Fresh, etc)</td> <td>Temp (C)</td> <td>pH</td> <td>Sample Depth <td>Diss. Oxygen <td>% sat <td>Total Res. Chlorine <td>Bottle Group(s)</td> </td></td></td></td> | G1TLHR0040 | Matrix (Type, e.g., Salt, Fresh, etc) | Temp (C) | pH       | Sample Depth <td>Diss. Oxygen <td>% sat <td>Total Res. Chlorine <td>Bottle Group(s)</td> </td></td></td> | Diss. Oxygen <td>% sat <td>Total Res. Chlorine <td>Bottle Group(s)</td> </td></td> | % sat <td>Total Res. Chlorine <td>Bottle Group(s)</td> </td> | Total Res. Chlorine <td>Bottle Group(s)</td> | Bottle Group(s) |
| Field ID | Sweetwater Branch @ Cody Church Rd |                                                                                                                                                                                                                            |            | Fresh                                 | 24.1     | 6.45     | 0.3                                                                                                      | 0.43                                                                               |                                                              | 44.2                                         | B               |
| WIN/STOR |                                    |                                                                                                                                                                                                                            |            |                                       |          |          |                                                                                                          |                                                                                    |                                                              |                                              |                 |
| Latitude | dd dms                             | Longitude                                                                                                                                                                                                                  | dd dms     | Salinity (ppt)                        | 0.02     | Comments |                                                                                                          |                                                                                    |                                                              |                                              |                 |

|                                |                           |                            |                                     |                        |                                   |
|--------------------------------|---------------------------|----------------------------|-------------------------------------|------------------------|-----------------------------------|
| Relinquished By: <u>Eckles</u> | Date/Time: <u>6/19/19</u> | Shipping Method: <u>FD</u> | Number of Coolers Shipped: <u>1</u> | Received By: <u>HK</u> | Date/Time: <u>6-19-19 / 15:05</u> |
|--------------------------------|---------------------------|----------------------------|-------------------------------------|------------------------|-----------------------------------|

|          |                                                                                  |                |                 |               |               |                                     |
|----------|----------------------------------------------------------------------------------|----------------|-----------------|---------------|---------------|-------------------------------------|
| Group: A | Bottle Type:<br>ALKALINITY<br>TURBIDITY<br>W-BR-IC<br>W-F<br>W-TSS               | P-1L           | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
| Group: A | Bottle Type:<br>CHLSUITE-W                                                       | BP-1L          | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
| Group: A | Bottle Type:<br>ENT-24-QT                                                        | P-250ML-WO-THI | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
| Group: A | Bottle Type:<br>PCR-FILTER                                                       | QPCR-P-500ML   | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
| Group: A | Bottle Type:<br>W-E8321-DI<br>W-E8321-MS                                         | BG-500ML       | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
| Group: A | Bottle Type:<br>W-ICP<br>W-ICPMS                                                 | P-500ML        | # of Bottles: 2 | Preservative: | HNO3          | Enter Number of Bottles Sent to Lab |
| 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: 2 | Preservative: | ICE And H2SO4 | Enter Number of Bottles Sent to Lab |
| Group: A | Bottle Type:<br>W-PO4-F                                                          | P-125ML        | # of Bottles: 2 | Preservative: | FILTER-ICE    | Enter Number of Bottles Sent to Lab |
| Group: B | Bottle Type:<br>ALKALINITY<br>TURBIDITY<br>W-CL-IC<br>W-COLOR<br>W-F<br>W-SO4-IC | P-1L           | # of Bottles: 3 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |

|          |              |                |                 |               |               |                                     |
|----------|--------------|----------------|-----------------|---------------|---------------|-------------------------------------|
| Group: B | Bottle Type: | P-1L           | # of Bottles: 3 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
|          | W-TDS        |                |                 |               |               |                                     |
|          | W-TSS        |                |                 |               |               |                                     |
| Group: B | Bottle Type: | BP-1L          | # of Bottles: 3 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
|          | CHLSUITE-W   |                |                 |               |               |                                     |
| Group: B | Bottle Type: | P-250ML-WO-THI | # of Bottles: 3 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
|          | ECOLL-18QT   |                |                 |               |               |                                     |
| Group: B | Bottle Type: | QPCR-P-500ML   | # of Bottles: 3 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
|          | PCR-FILTER   |                |                 |               |               |                                     |
| Group: B | Bottle Type: | BG-500ML       | # of Bottles: 3 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
|          | W-E8321-DI   |                |                 |               |               |                                     |
|          | W-E8321-MS   |                |                 |               |               |                                     |
| Group: B | Bottle Type: | P-500ML        | # of Bottles: 3 | Preservative: | ICE And H2SO4 | Enter Number of Bottles Sent to Lab |
|          | W-NH3        |                |                 |               |               |                                     |
|          | W-NO2NO3     |                |                 |               |               |                                     |
|          | W-S-A-TP     |                |                 |               |               |                                     |
|          | W-TKN        |                |                 |               |               |                                     |
|          | W-TOC        |                |                 |               |               |                                     |
| Group: B | Bottle Type: | P-125ML        | # of Bottles: 3 | Preservative: | FILTER-ICE    | Enter Number of Bottles Sent to Lab |
|          | W-PO4F       |                |                 |               |               |                                     |
| Group: C | Bottle Type: | P-1L           | # of Bottles: 3 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
|          | ALKALINITY   |                |                 |               |               |                                     |
|          | TURBIDITY    |                |                 |               |               |                                     |
|          | W-CL-IC      |                |                 |               |               |                                     |
|          | W-COLOR      |                |                 |               |               |                                     |
|          | W-F          |                |                 |               |               |                                     |
|          | W-SO4-IC     |                |                 |               |               |                                     |
|          | W-TDS        |                |                 |               |               |                                     |
|          | W-TSS        |                |                 |               |               |                                     |
| Group: C | Bottle Type: | BP-1L          | # of Bottles: 3 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
|          | CHLSUITE-W   |                |                 |               |               |                                     |
| Group: C | Bottle Type: | P-250ML-WO-THI | # of Bottles: 3 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |

|          |                                                                         |                 |                             |                                     |
|----------|-------------------------------------------------------------------------|-----------------|-----------------------------|-------------------------------------|
| Group: C | Bottle Type: P-250ML-WO-THI<br>ECOLI-18QT                               | # of Bottles: 3 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| Group: C | Bottle Type: P-500ML<br>W-NH3<br>W-NO2NO3<br>W-S-A-TP<br>W-TKN<br>W-TOC | # of Bottles: 3 | Preservative: ICE And H2SO4 | Enter Number of Bottles Sent to Lab |
| Group: C | Bottle Type: P-125ML<br>W-PO4-F                                         | # of Bottles: 3 | Preservative: FILTER-ICE    | Enter Number of Bottles Sent to Lab |
| Group: D | Bottle Type: P-1L<br>ALKALINITY<br>TURBIDITY<br>W-BR-IC<br>W-F<br>W-TSS | # of Bottles: 1 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| Group: D | Bottle Type: BP-1L<br>CHLSUITE-W                                        | # of Bottles: 1 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| Group: D | Bottle Type: P-250ML-WO-THI<br>ENT-24-QT                                | # of Bottles: 1 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| Group: D | Bottle Type: P-500ML<br>W-NH3<br>W-NO2NO3<br>W-S-A-TP<br>W-TKN<br>W-TOC | # of Bottles: 1 | Preservative: ICE And H2SO4 | Enter Number of Bottles Sent to Lab |
| Group: D | Bottle Type: P-125ML<br>W-PO4-F                                         | # of Bottles: 1 | Preservative: FILTER-ICE    | Enter Number of Bottles Sent to Lab |
| Group: E | Bottle Type: P-1L<br>ALKALINITY<br>TURBIDITY<br>W-BR-IC<br>W-F          | # of Bottles: 1 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |

|            |                             |                 |                             |                                     |
|------------|-----------------------------|-----------------|-----------------------------|-------------------------------------|
| Group: E   | Bottle Type: P-1L           | # of Bottles: 1 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| W-TSS      |                             |                 |                             |                                     |
| Group: E   | Bottle Type: P-250ML-WO-THI | # of Bottles: 1 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| ENT-24-QT  |                             |                 |                             |                                     |
| Group: E   | Bottle Type: QPCR-P-500ML   | # of Bottles: 1 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| PCR-FILTER |                             |                 |                             |                                     |
| Group: E   | Bottle Type: P-500ML        | # of Bottles: 1 | Preservative: HNO3          | Enter Number of Bottles Sent to Lab |
| W-ICP      |                             |                 |                             |                                     |
| W-ICPMS    |                             |                 |                             |                                     |
| Group: E   | 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: E   | Bottle Type: P-125ML        | # of Bottles: 1 | Preservative: FILTER-ICE    | Enter Number of Bottles Sent to Lab |
| W-PO4-F    |                             |                 |                             |                                     |



# 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: 154177

RQ: 2019-06-17-40

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 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.            | M.A. Eckles | 6/19/19 | 8:10       | 21.6    | 753.3           | 8.8             | 99.4            | 8.81 |              | 0.775      | P/F         | L/F         |
| ICV                | M.A. Eckles | 6/19/19 | 8:15       | 21.1    | 755.4           | 8.8             | 8.84            | 99.4 |              |            | P/F         | L/F         |
| CCV                | M.A. Eckles | 6/19/19 | 15:00      | 21.3    | 755.1           | 8.8             | 8.81            | 99.5 |              |            | 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. Cond. FT 1200 | Name        | Date    | Time CT-ET | Lot #   | Expir. Date | Standard $\mu$ hos/cm | Meter Reading $\mu$ hos/cm | Pass / Fail | Lab / Field |
|---------------------|-------------|---------|------------|---------|-------------|-----------------------|----------------------------|-------------|-------------|
| Calibr.             | M.A. Eckles | 6/19/19 | 8:20       | 190405A | 4/20        | 1000                  | 1002                       | P/F         | L/F         |
| ICV                 | M.A. Eckles | 6/19/19 | 8:25       | 2808889 | 7/20        | 100                   | 101                        | P/F         | L/F         |
| CCV                 | M.A. Eckles | 6/19/19 | 15:05      | 2808889 | 7/20        | 100                   | 102                        | P/F         | L/F         |
| CCV                 | M.A. Eckles | 6/19/19 | 15:10      | 1809270 | 10/19       | 500                   | 502                        | 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 | Temp °C | Meter reading SU | mV    | Pass / Fail | Lab / Field |
|--------------------|-------------|---------|------------|----------|-------------|--------------|---------|------------------|-------|-------------|-------------|
| Calibr.            | M.A. Eckles | 6/19/19 | 8:20       | 180621E  | 1/20        | 7.102        | 21.9    | 7.73             | 173   | P/F         | L/F         |
| Calibr.            | M.A. Eckles | 6/19/19 | 8:25       | 1900405B | 10/20       | 4.01         | 21.9    | 4.0              | 153.9 | P/F         | L/F         |
| Calibr.            | M.A. Eckles | 6/19/19 | 8:40       | 180621F  | 1/20        | 10.103       | 21.8    | 10.04            | 178.5 | P/F         | L/F         |
| ICV                | M.A. Eckles | 6/19/19 | 8:45       | 180621F  | 1/20        | 10.03        | 20.8    | 10.04            | 179.6 | P/F         | L/F         |
| CCV                | M.A. Eckles | 6/19/19 | 15:15      | 1900405B | 10/20       | 4.0          | 21.6    | 4.04             | 153.3 | P/F         | L/F         |
| CCV                |             |         |            |          |             |              |         |                  | 153.3 | 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 56.02, slope from 4 to 7 94.84 (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                   | M.A. Eckles | 6/19/19 | 8:50       | 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 STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: **Spring Creek @ US98**

Date: **6/19/19**  
(mm/dd/yyyy)

WIN/ Field ID: **G1TLHR0084**

WBID: **3518**

Latitude: **30.084354**  
(Decimal Degrees)

County: **Taylor**

ORG ID: **21FLTLHR** Longitude: **83.664309**  
(Decimal Degrees)

Receiving Body of Water: **Fenholloway River**

RQ: **2019-06-17-41**

| Sampling Team Members |  |  |  |  | WQ Measurements | Sample Collection | Documentation | Preservation | Preservation Check |
|-----------------------|--|--|--|--|-----------------|-------------------|---------------|--------------|--------------------|
| M. A. F. (e)          |  |  |  |  | X               |                   | X             |              |                    |
| R. M. Blair           |  |  |  |  |                 | 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 type="checkbox"/> Syringe  |                               |
| <input type="checkbox"/> Dipper                      | <input type="checkbox"/> Other    |                               |
| Depth Measured with _____                            |                                   |                               |
| Equipment ID _____                                   |                                   |                               |

| Collection Method                              |                                         |
|------------------------------------------------|-----------------------------------------|
| <input type="checkbox"/> Wading                | <input type="checkbox"/> Canoe/Kayak    |
| <input checked="" 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 **Normal** Meter ID# **154177** Matrix: **Fresh** / Marine / DI  
Photos: Yes / ☒ No Flow: No Flow / Intestinal / Flowing / NA Tide: Rising / Falling / Slack / **Other** Tide Times: High Low

| Time Zone | Time  | Total Depth (m) | Sample Depth (m) | Secchi Disk (m) | DO (mg/L) | DO (%SAT) | pH   | Salinity (PPT) | Sp COND (umhos/cm) | Temp. (C°) |
|-----------|-------|-----------------|------------------|-----------------|-----------|-----------|------|----------------|--------------------|------------|
| EST       | 12:15 | 1.2             | 0.3              | 0.6 (S)         | 6.13      | 71.2      | 7.48 | 0.19           | 402.1              | 22.7       |
| CEN       |       | 0.6             |                  | 0.6 (S)         |           |           |      |                |                    |            |

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         | <input checked="" type="checkbox"/> W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                                                                                                                         | <input type="checkbox"/> Ice <input checked="" type="checkbox"/> H2SO4 | 6744    | 5/9/20     | <input checked="" type="checkbox"/> <2 |
| Metals                      | <input type="checkbox"/> W-ICPMS <input type="checkbox"/> W-ICP                                                                                                                                                         | <input type="checkbox"/> Ice <input type="checkbox"/> HNO3             | 9129100 |            | <input type="checkbox"/> <2            |
| Filtered Nutrients          | <input checked="" type="checkbox"/> W-PO4-F <input checked="" type="checkbox"/> Field Filtered 0.45 um Filter                                                                                                           | <input checked="" type="checkbox"/> Ice                                |         |            |                                        |
| 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 checked="" 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<br><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<br><input type="checkbox"/> W-PCL-SQ-R <input type="checkbox"/> W-E8321-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: **Secchi is 0.6 (S)**

Field/WIN ID → **G1TLHR0084**  
Location ↓

Signature: \_\_\_\_\_ Date: **6/19/19**

SPRING CREEK @ US98

LIMS EVENT ID: WIN Import ID:

Enter Field Parameters, Verify Station ID in LIMS DMT: QC Station ID, Field Parameters in LIMS DMT:

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



Florida Department of Environmental Protection  
Central Laboratory Submittal Form

Customer: TLH-ROC  
Project ID: SMP

Requester: Michael Eckles  
Collected By: Eckles

Field Report Prepared By: M.A. Eckles  
Sampling Agency: 803-11

| Lo       | Field/WIN ID → | Barcode   | G1TLHR0084                         | Temp (C) | pH   | Salinity (ppt) | Collection (comp begin or grab) | Time    | Sample Depth | Diss. Oxygen | % sat | Total Res. Chlorine (mg/L) | Bottle Group(s) |
|----------|----------------|-----------|------------------------------------|----------|------|----------------|---------------------------------|---------|--------------|--------------|-------|----------------------------|-----------------|
| WI       | Location ↓     | Barcode   | SPRING CREEK @ US98                | 22.7     | 7.48 | 0.19           | Comp                            | 6/19/19 | 12:15        | 0.3          | 402.1 | 402.1                      | C               |
| Latitude | dd             | Longitude | dms                                | dd       | dms  | dd             | dms                             | dd      | dms          | dd           | dms   | dd                         | dms             |
| Loca     | Field/WIN ID → | Barcode   | G1TLHR0067                         | 22.3     | 7.64 | 6.18           | Comp                            | 6/19/19 | 12:40        | 0.2          | 366.8 | 366.8                      | B               |
| Field    | Location ↓     | Barcode   | WOODS CREEK @ OSTEE RD             | 22.3     | 7.64 | 6.18           | Comp                            | 6/19/19 | 13:45        | 0.2          | 366.8 | 366.8                      | B               |
| WIN      | Field/WIN ID → | Barcode   | G1TLHR0041                         | 23.6     | 5.10 | 0.01           | Comp                            | 6/19/19 | 14:10        | 0.3          | 44.2  | 44.2                       | B               |
| Field    | Location ↓     | Barcode   | Moore Branch @ Cody Church Rd      | 23.6     | 5.10 | 0.01           | Comp                            | 6/19/19 | 14:10        | 0.3          | 44.2  | 44.2                       | B               |
| WIN      | Field/WIN ID → | Barcode   | Sweetwater Branch @ Cody Church Rd | 24.1     | 6.45 | 0.02           | Comp                            | 6/19/19 | 14:10        | 0.3          | 44.2  | 44.2                       | B               |
| Latitude | dd             | Longitude | dms                                | dd       | dms  | dd             | dms                             | dd      | dms          | dd           | dms   | dd                         | dms             |

|                                |                           |                            |                                     |                        |                                   |
|--------------------------------|---------------------------|----------------------------|-------------------------------------|------------------------|-----------------------------------|
| Relinquished By: <u>Eckles</u> | Date/Time: <u>6/19/19</u> | Shipping Method: <u>AD</u> | Number of Coolers Shipped: <u>1</u> | Received By: <u>HK</u> | Date/Time: <u>6-19-19 / 15:05</u> |
|--------------------------------|---------------------------|----------------------------|-------------------------------------|------------------------|-----------------------------------|

|          |                                                                                  |                |                 |                             |                                     |
|----------|----------------------------------------------------------------------------------|----------------|-----------------|-----------------------------|-------------------------------------|
| Group: A | Bottle Type:<br>ALKALINITY<br>TURBIDITY<br>W-BR-IC<br>W-F<br>W-TSS               | P-1L           | # of Bottles: 2 | Preservative:<br>ICE        | Enter Number of Bottles Sent to Lab |
| Group: A | Bottle Type:<br>CHLSUITE-W                                                       | BP-1L          | # of Bottles: 2 | Preservative:<br>ICE        | Enter Number of Bottles Sent to Lab |
| Group: A | Bottle Type:<br>ENT-24-QT                                                        | P-250ML-WO-THI | # of Bottles: 2 | Preservative:<br>ICE        | Enter Number of Bottles Sent to Lab |
| Group: A | Bottle Type:<br>PCR-FILTER                                                       | QPCR-P-500ML   | # of Bottles: 2 | Preservative:<br>ICE        | Enter Number of Bottles Sent to Lab |
| Group: A | Bottle Type:<br>W-E8321-DI<br>W-E8321-MS                                         | BG-500ML       | # of Bottles: 2 | Preservative:<br>ICE        | Enter Number of Bottles Sent to Lab |
| Group: A | Bottle Type:<br>W-ICP<br>W-ICPMS                                                 | P-500ML        | # of Bottles: 2 | Preservative:<br>HNO3       | Enter Number of Bottles Sent to Lab |
| 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: 2 | Preservative: ICE And H2SO4 | Enter Number of Bottles Sent to Lab |
| Group: A | Bottle Type:<br>W-PO4-F                                                          | P-125ML        | # of Bottles: 2 | Preservative: FILTER-ICE    | Enter Number of Bottles Sent to Lab |
| Group: B | Bottle Type:<br>ALKALINITY<br>TURBIDITY<br>W-CL-IC<br>W-COLOR<br>W-F<br>W-SO4-IC | P-1L           | # of Bottles: 3 | Preservative:<br>ICE        | Enter Number of Bottles Sent to Lab |

|          |              |                |                 |               |               |                                     |
|----------|--------------|----------------|-----------------|---------------|---------------|-------------------------------------|
| Group: B | Bottle Type: | P-1L           | # of Bottles: 3 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
|          | W-TDS        |                |                 |               |               |                                     |
|          | W-TSS        |                |                 |               |               |                                     |
| Group: B | Bottle Type: | BP-1L          | # of Bottles: 3 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
|          | CHLSUITE-W   |                |                 |               |               |                                     |
| Group: B | Bottle Type: | P-250ML-WO-THI | # of Bottles: 3 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
|          | ECOLL-18QT   |                |                 |               |               |                                     |
| Group: B | Bottle Type: | QPCR-P-500ML   | # of Bottles: 3 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
|          | PCR-FILTER   |                |                 |               |               |                                     |
| Group: B | Bottle Type: | BG-500ML       | # of Bottles: 3 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
|          | W-E8321-DI   |                |                 |               |               |                                     |
|          | W-E8321-MS   |                |                 |               |               |                                     |
| Group: B | Bottle Type: | P-500ML        | # of Bottles: 3 | Preservative: | ICE And H2SO4 | Enter Number of Bottles Sent to Lab |
|          | W-NH3        |                |                 |               |               |                                     |
|          | W-NO2NO3     |                |                 |               |               |                                     |
|          | W-S-A-TP     |                |                 |               |               |                                     |
|          | W-TKN        |                |                 |               |               |                                     |
|          | W-TOC        |                |                 |               |               |                                     |
| Group: B | Bottle Type: | P-125ML        | # of Bottles: 3 | Preservative: | FILTER-ICE    | Enter Number of Bottles Sent to Lab |
|          | W-PQ4F       |                |                 |               |               |                                     |
| Group: C | Bottle Type: | P-1L           | # of Bottles: 3 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
|          | ALKALINITY   |                |                 |               |               |                                     |
|          | TURBIDITY    |                |                 |               |               |                                     |
|          | W-CL-IC      |                |                 |               |               |                                     |
|          | W-COLOR      |                |                 |               |               |                                     |
|          | W-F          |                |                 |               |               |                                     |
|          | W-SO4-IC     |                |                 |               |               |                                     |
|          | W-TDS        |                |                 |               |               |                                     |
|          | W-TSS        |                |                 |               |               |                                     |
| Group: C | Bottle Type: | BP-1L          | # of Bottles: 3 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
|          | CHLSUITE-W   |                |                 |               |               |                                     |
| Group: C | Bottle Type: | P-250ML-WO-THI | # of Bottles: 3 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |

|          |                                                                         |                 |                             |                                     |
|----------|-------------------------------------------------------------------------|-----------------|-----------------------------|-------------------------------------|
| Group: C | Bottle Type: P-250ML-WO-THI<br>ECOLI-18QT                               | # of Bottles: 3 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| Group: C | Bottle Type: P-500ML<br>W-NH3<br>W-NO2NO3<br>W-S-A-TP<br>W-TKN<br>W-TOC | # of Bottles: 3 | Preservative: ICE And H2SO4 | Enter Number of Bottles Sent to Lab |
| Group: C | Bottle Type: P-125ML<br>W-PO4-F                                         | # of Bottles: 3 | Preservative: FILTER-ICE    | Enter Number of Bottles Sent to Lab |
| Group: D | Bottle Type: P-1L<br>ALKALINITY<br>TURBIDITY<br>W-BR-IC<br>W-F<br>W-TSS | # of Bottles: 1 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| Group: D | Bottle Type: BP-1L<br>CHLSUITE-W                                        | # of Bottles: 1 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| Group: D | Bottle Type: P-250ML-WO-THI<br>ENT-24-QT                                | # of Bottles: 1 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| Group: D | Bottle Type: P-500ML<br>W-NH3<br>W-NO2NO3<br>W-S-A-TP<br>W-TKN<br>W-TOC | # of Bottles: 1 | Preservative: ICE And H2SO4 | Enter Number of Bottles Sent to Lab |
| Group: D | Bottle Type: P-125ML<br>W-PO4-F                                         | # of Bottles: 1 | Preservative: FILTER-ICE    | Enter Number of Bottles Sent to Lab |
| Group: E | Bottle Type: P-1L<br>ALKALINITY<br>TURBIDITY<br>W-BR-IC<br>W-F          | # of Bottles: 1 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |

|            |                             |                 |                             |                                     |
|------------|-----------------------------|-----------------|-----------------------------|-------------------------------------|
| Group: E   | Bottle Type: P-1L           | # of Bottles: 1 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| W-TSS      |                             |                 |                             |                                     |
| Group: E   | Bottle Type: P-250ML-WO-THI | # of Bottles: 1 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| ENT-24-QT  |                             |                 |                             |                                     |
| Group: E   | Bottle Type: QPCR-P-500ML   | # of Bottles: 1 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| PCR-FILTER |                             |                 |                             |                                     |
| Group: E   | Bottle Type: P-500ML        | # of Bottles: 1 | Preservative: HNO3          | Enter Number of Bottles Sent to Lab |
| W-ICP      |                             |                 |                             |                                     |
| W-ICPMS    |                             |                 |                             |                                     |
| Group: E   | 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: E   | Bottle Type: P-125ML        | # of Bottles: 1 | Preservative: FILTER-ICE    | Enter Number of Bottles Sent to Lab |
| W-PO4-F    |                             |                 |                             |                                     |



# 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: 154177

RQ: 2019-06-17-40

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 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.            | M.A. Eckles | 6/19/19 | 8:10       | 21.6    | 753.3           | 8.8             | 99.4            | 8.81 |              | 0.775      | P/F         | L/F         |
| ICV                | M.A. Eckles | 6/19/19 | 8:15       | 21.1    | 755.4           | 8.8             | 8.84            | 99.4 |              |            | P/F         | L/F         |
| CCV                | M.A. Eckles | 6/19/19 | 15:00      | 21.3    | 755.1           | 8.8             | 8.81            | 99.5 |              |            | 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. 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.             | M.A. Eckles | 6/19/19 | 8:20       | 190405A | 4/20        | 1000                   | 1002                        | P/F         | L/F         |
| ICV                 | M.A. Eckles | 6/19/19 | 8:25       | 2808889 | 7/20        | 100                    | 141                         | P/F         | L/F         |
| CCV                 | M.A. Eckles | 6/19/19 | 15:05      | 2808889 | 7/20        | 100                    | 102                         | P/F         | L/F         |
| CCV                 | M.A. Eckles | 6/19/19 | 15:10      | 1809270 | 10/19       | 500                    | 502                         | 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 | Temp °C | Meter reading SU | mV    | Pass / Fail | Lab / Field |
|--------------------|-------------|---------|------------|----------|-------------|--------------|---------|------------------|-------|-------------|-------------|
| Calibr.            | M.A. Eckles | 6/19/19 | 8:20       | 180621E  | 1/20        | 7.02         | 21.9    | 7.73             | 17.3  | P/F         | L/F         |
| Calibr.            | M.A. Eckles | 6/19/19 | 8:25       | 190405B  | 10/20       | 4.01         | 21.5    | 4.0              | 153.9 | P/F         | L/F         |
| Calibr.            | M.A. Eckles | 6/19/19 | 8:40       | 180621F  | 1/20        | 10.03        | 21.8    | 10.04            | 178.5 | P/F         | L/F         |
| ICV                | M.A. Eckles | 6/19/19 | 8:45       | 180621F  | 1/20        | 10.03        | 20.8    | 10.04            | 179.6 | P/F         | L/F         |
| CCV                | M.A. Eckles | 6/19/19 | 15:15      | 1900405B | 10/20       | 4.0          | 21.6    | 4.04             | 153.3 | P/F         | L/F         |
| CCV                |             |         |            |          |             |              |         |                  | 153.3 | 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 56.02, slope from 4 to 7 94.84 (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                   | M.A. Eckles | 6/19/19 | 8:50       | 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:

