



# FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

Data Qualified?  
Yes / No

January 2018

WIN Station Name: Apalachicola Bay near St. George Island

Date: 11/26/2016  
(mm/dd/yyyy)

WIN/ Field ID: G2TLHR0036

WBID: 1274

Latitude: 29.68034

(Decimal Degrees)

County: Franklin

ORG ID: 21FLTLHR

Longitude: -84.874985

(Decimal Degrees)

Receiving Body of Water: NA

RQ-2018- 10-29-75

| Sampling Team Members |  |  |  |  | WQ Measurements | Sample Collection | Documentation | Preservation | Preservation Check |
|-----------------------|--|--|--|--|-----------------|-------------------|---------------|--------------|--------------------|
| San Woods             |  |  |  |  | X               | X                 |               |              |                    |
| Ben Harden            |  |  |  |  | X               | X                 | X             | X            |                    |

| Sampling Equipment                                   |                                             |                               |
|------------------------------------------------------|---------------------------------------------|-------------------------------|
| <input checked="" type="checkbox"/> Sample Container | <input type="checkbox"/> Van Dorn           | <input type="checkbox"/> Pole |
| <input type="checkbox"/> Carboy                      | <input checked="" type="checkbox"/> Syringe |                               |
| <input type="checkbox"/> Dipper                      | <input type="checkbox"/> Other              |                               |
| Depth Measured with 251                              |                                             |                               |
| Equipment ID 1534464                                 |                                             |                               |

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

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

Meter ID# 1534464

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 (PPTH) | Sp COND (µmhos/cm) | Temp. (C°) |
|-----------|------|-----------------|------------------|-----------------|-----------|-----------|------|-----------------|--------------------|------------|
| EST       | 1230 | 1.0             | 0.3              | 1.0             | 9.75      | 97.3      | 7.54 | 6.56            | 11515              | 13.3       |
| 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 type="checkbox"/> H2SO4 | 4274050 |            | <input checked="" type="checkbox"/> <2 |
| Metals                      | <input checked="" type="checkbox"/> W-ICPMS <input checked="" type="checkbox"/> W-ICP                                                                                                                                                                                                      | <input checked="" type="checkbox"/> Ice <input type="checkbox"/> HNO3  | 6191080 |            | <input checked="" type="checkbox"/> <2 |
| Filtered Nutrients          | <input checked="" type="checkbox"/> W-PO4-F <input checked="" type="checkbox"/> Field Filtered 0.45 µm Filter                                                                                                                                                                              | <input checked="" type="checkbox"/> Ice                                |         |            |                                        |
| Chlorophyll                 | <input checked="" type="checkbox"/> CHLSUITE-W                                                                                                                                                                                                                                             | <input checked="" type="checkbox"/> Ice                                |         |            |                                        |
| Physical/Aggregate (Fresh)  | <input type="checkbox"/> Alkalinity / W-F / W-TSS / TURBIDITY / W-CI-IC / W-COLOR / W-SO4-IC / W-TDS                                                                                                                                                                                       | <input type="checkbox"/> Ice                                           |         |            |                                        |
| Physical/Aggregate (Marine) | <input checked="" type="checkbox"/> Alkalinity / W-F / W-TSS / TURBIDITY                                                                                                                                                                                                                   | <input checked="" 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 type="checkbox"/> E Coli <input checked="" type="checkbox"/> F Coli <input checked="" type="checkbox"/> Enterococci                                                                                                                                                                 | <input checked="" type="checkbox"/> Ice                                |         |            |                                        |
| Molecular                   | <input type="checkbox"/> PCR-FILTER <input type="checkbox"/> PCR-HF183 <input type="checkbox"/> PCR-BacR <input type="checkbox"/> PCR-GULL2 <input type="checkbox"/> PCR-GFD                                                                                                               | <input type="checkbox"/> Ice                                           |         |            |                                        |
| Tracers                     | <input type="checkbox"/> W-SUC-AA-R <input type="checkbox"/> W-UHERB-AA <input type="checkbox"/> W-AHERB-AA                                                                                                                                                                                | <input type="checkbox"/> Ice                                           |         |            |                                        |
| Pesticides                  | <input type="checkbox"/> W-PSNP-TQ <input type="checkbox"/> W-UHERB-AA <input type="checkbox"/> W-AHERB-AA <input type="checkbox"/> W-CARB-AA <input type="checkbox"/> W-PCL-SQ-R <input type="checkbox"/> W-PYR-AA-R <input type="checkbox"/> W-GLYPH <input type="checkbox"/> W-SUC-AA-R | <input type="checkbox"/> Ice <input type="checkbox"/> Other            |         |            |                                        |

Notes:

D-b

Field/WIN ID →



G2TLHR0036

Location ↓

Apalachicola Bay near St. George Island

Signature:

Date:

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:

Florida Department of Environmental Protection  
Central Laboratory Submittal Form

Customer: TLH-ROC

Requester: Michael Eckles

Field Report Prepared By: Woody

Project ID: SMP

Collected By: Woody/HardenSampling Agency: 4034

|          |  |                |  |                                       |  |              |  |               |  |                     |  |
|----------|--|----------------|--|---------------------------------------|--|--------------|--|---------------|--|---------------------|--|
| Location |  | Field/WIN ID → |  | Collection (comp begin or grab)       |  | Eastern      |  | Composite end |  | Bottle              |  |
| Field ID |  | WIN/STC        |  | Matrix (type, e.g., Salt, Fresh, etc) |  | Diss. Oxygen |  | mg/L          |  | Total Res. Chlorine |  |
| Latitude |  | Longitude      |  | Temp (C)                              |  | pH           |  | ft            |  | Sp. Conductance     |  |
|          |  |                |  | Salinity (ppt)                        |  | Sample Depth |  | umho/cm       |  | (umho/cm)           |  |
|          |  |                |  | dd                                    |  |              |  | m             |  | A                   |  |
|          |  |                |  | dms                                   |  |              |  |               |  |                     |  |
| Location |  | Field/WIN ID → |  | Collection (comp begin or grab)       |  | Eastern      |  | Composite end |  | Bottle              |  |
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| Latitude |  | Longitude      |  | Temp (C)                              |  | pH           |  | ft            |  | Sp. Conductance     |  |
|          |  |                |  | Salinity (ppt)                        |  | Sample Depth |  | umho/cm       |  | (umho/cm)           |  |
|          |  |                |  | dd                                    |  |              |  | m             |  | A                   |  |
|          |  |                |  | dms                                   |  |              |  |               |  |                     |  |
| Location |  | Field/WIN ID → |  | Collection (comp begin or grab)       |  | Eastern      |  | Composite end |  | Bottle              |  |
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| Latitude |  | Longitude      |  | Temp (C)                              |  | pH           |  | ft            |  | Sp. Conductance     |  |
|          |  |                |  | Salinity (ppt)                        |  | Sample Depth |  | umho/cm       |  | (umho/cm)           |  |
|          |  |                |  | dd                                    |  |              |  | m             |  | A                   |  |
|          |  |                |  | dms                                   |  |              |  |               |  |                     |  |
| Location |  | Field/WIN ID → |  | Collection (comp begin or grab)       |  | Eastern      |  | Composite end |  | Bottle              |  |
| Field ID |  | WIN/STC        |  | Matrix (type, e.g., Salt, Fresh, etc) |  | Diss. Oxygen |  | mg/L          |  | Total Res. Chlorine |  |
| Latitude |  | Longitude      |  | Temp (C)                              |  | pH           |  | ft            |  | Sp. Conductance     |  |
|          |  |                |  | Salinity (ppt)                        |  | Sample Depth |  | umho/cm       |  | (umho/cm)           |  |
|          |  |                |  | dd                                    |  |              |  | m             |  | A                   |  |
|          |  |                |  | dms                                   |  |              |  |               |  |                     |  |

|                            |                                 |                            |                                     |                        |                                 |
|----------------------------|---------------------------------|----------------------------|-------------------------------------|------------------------|---------------------------------|
| Relinquished By: <u>SW</u> | Date/Time: <u>11/28/18 1545</u> | Shipping Method: <u>HO</u> | Number of Coolers Shipped: <u>1</u> | Received By: <u>SR</u> | Date/Time: <u>11/28/18 1345</u> |
|----------------------------|---------------------------------|----------------------------|-------------------------------------|------------------------|---------------------------------|

|          |              |                |                 |               |               |                                     |   |
|----------|--------------|----------------|-----------------|---------------|---------------|-------------------------------------|---|
| Group: A | Bottle Type: | P-1L           | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 2 |
|          | ALKALINITY   |                |                 |               |               |                                     |   |
|          | TURBIDITY    |                |                 |               |               |                                     |   |
|          | W-F          |                |                 |               |               |                                     |   |
|          | W-TSS        |                |                 |               |               |                                     |   |
| Group: A | Bottle Type: | BP-1L          | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 2 |
|          | CHLSUITE-W   |                |                 |               |               |                                     |   |
| Group: A | Bottle Type: | P-250ML-WO-THI | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 2 |
|          | ENT-24-QT    |                |                 |               |               |                                     |   |
| Group: A | Bottle Type: | P-120ML-OC     | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 2 |
|          | FCOLI-MF     |                |                 |               |               |                                     |   |
| Group: A | Bottle Type: | P-500ML        | # of Bottles: 2 | Preservative: | HNO3          | Enter Number of Bottles Sent to Lab | 2 |
|          | W-ICP        |                |                 |               |               |                                     |   |
|          | W-ICPMS      |                |                 |               |               |                                     |   |
| Group: A | Bottle Type: | P-500ML        | # of Bottles: 2 | Preservative: | ICE And H2SO4 | Enter Number of Bottles Sent to Lab | 2 |
|          | W-NH3        |                |                 |               |               |                                     |   |
|          | W-NO2NO3     |                |                 |               |               |                                     |   |
|          | W-S-A-TP     |                |                 |               |               |                                     |   |
|          | W-TKN        |                |                 |               |               |                                     |   |
|          | W-TOC        |                |                 |               |               |                                     |   |
| Group: A | Bottle Type: | P-125ML        | # of Bottles: 2 | Preservative: | FILTER-ICE    | Enter Number of Bottles Sent to Lab | 2 |
|          | W-PO4-F      |                |                 |               |               |                                     |   |

8274056

4197040

# 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: 153464

RQ:

Project:

Notes: (1) Always wait for meter to stabilize before recording any readings.

(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).

(3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

## Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

| DO<br>DEP SOP<br>FT 1500 | Name       | Date     | Time<br>CT-ET | Temp<br>°C | Baro-<br>meter<br>mmHg | D.O.<br>Chart<br>mg/L | Meter<br>D.O.<br>mg/L | % DO  | Probe<br>Charge | Probe<br>Gain | Pass<br>/<br>Fail | Lab<br>/<br>Field |
|--------------------------|------------|----------|---------------|------------|------------------------|-----------------------|-----------------------|-------|-----------------|---------------|-------------------|-------------------|
| Calibr.                  | Ben Harden | 11/28/18 | 0754          | 19.7       | 761.1                  | 9.15                  | 9.15                  | 100.2 |                 | 1.837         | P/F               | D/F               |
| ICV                      | "          | "        | 0810          | 18.6       | 761.3                  | 9.35                  | 9.30                  | 99.5  |                 |               | P/F               | D/F               |
| CCV                      | "          | "        | 1552          | 18.3       | 760.1                  | 9.41                  | 9.45                  | 100.4 |                 |               | P/F               | D/F               |
| CCV                      |            |          |               |            |                        |                       |                       |       |                 |               | P/F               | L/F               |

DO Acceptance criteria from Table  $\pm 0.3$  mg/L.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

Optical: DO gain range 0.85 to 1.15 (Pro DSS 0.75 to 1.50); DO charge N/A. Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

| Spec.<br>Cond.<br>FT 1200 | Name       | Date     | Time<br>CT-ET | Lot #   | Expir.<br>Date | Standard<br>$\mu$ mhos/cm | Meter<br>Reading<br>$\mu$ mhos/cm | Pass<br>/<br>Fail | Lab<br>/<br>Field |
|---------------------------|------------|----------|---------------|---------|----------------|---------------------------|-----------------------------------|-------------------|-------------------|
| Calibr.                   | Ben Harden | 11/28/18 | 0756          | 180621C | 07/19          | 1000                      | 1000                              | P/F               | D/F               |
| ICV                       | "          | "        | 0758          | 180514  | 05/20          | 100                       | 101.1                             | P/F               | D/F               |
| CCV                       | "          | "        | 1554          | 180621B | 07/19          | 50000                     | 51183                             | P/F               | D/F               |
| CCV                       |            |          |               |         |                |                           |                                   | P/F               | L/F               |

Conductivity Acceptance criteria  $\pm 5\%$

| pH<br>DEP SOP<br>FT 1100 | Name       | Date     | Time<br>CT-ET | Lot #   | Expir.<br>Date | pH<br>Buffer<br>SU | Temp<br>°C | Meter<br>reading<br>SU | mV     | Pass<br>/<br>Fail | Lab<br>/<br>Field |
|--------------------------|------------|----------|---------------|---------|----------------|--------------------|------------|------------------------|--------|-------------------|-------------------|
| Calibr.                  | Ben Harden | 11/28/18 | 0800          | 180621E | 01/20          | 7.03               | 18.7       | 7.03                   | -17.1  | P/F               | D/F               |
| Calibr.                  | "          | "        | 0802          | 180621D | 07/19          | 4.00               | 18.2       | 4.00                   | 157.3  | P/F               | D/F               |
| Calibr.                  | "          | "        | 0805          | 180403D | 10/19          | 10.09              | 17.6       | 10.09                  | -175.1 | P/F               | D/F               |
| ICV                      | "          | "        | 0807          | "       | "              | 10.09              | 17.8       | 10.06                  | -173.2 | P/F               | D/F               |
| CCV                      | "          | "        | 1556          | 180621D | 07/19          | 4.00               | 19.3       | 4.14                   | 158.0  | P/F               | D/F               |
| CCV                      |            |          |               |         |                |                    |            |                        |        | P/F               | L/F               |

pH Acceptance criteria  $\pm 0.2$  SU; mV pH 7 Range  $0 \pm 50$ ;

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

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

If mV are recorded: slope from 7 to 10 158.0, slope from 4 to 7 174.4 (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification:

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: ; Date of last verification:

| Depth Sensor<br>(Daily Calibration &<br>ICV) | Name       | Date     | Time<br>CT-ET | Calibrated<br>Value (0.00 or<br>Offset), meters | ICV Value,<br>meters | Pass /<br>Fail | Lab /<br>Field |
|----------------------------------------------|------------|----------|---------------|-------------------------------------------------|----------------------|----------------|----------------|
| Pressure mode in air                         | Ben Harden | 11/28/18 | 0753          | 0.000                                           | 0.000                | P/F            | D/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:

# **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:

RQ:

Project:

**Notes:** (1) Always wait for meter to stabilize before recording any readings.

(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).

(3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

## **Temperature (Quarterly) FT 1400**

Date of Last Temperature Verification \_\_\_\_\_

| DO<br>DEP SOP<br>FT 1500 | Name | Date | Time<br>CT-ET | Temp<br>°C | Baro-<br>meter<br>mmHg | D.O.<br>Chart<br>mg/L | Meter<br>D.O.<br>mg/L | % DO | Probe<br>Charge | Probe<br>Gain | Pass<br>/<br>Fail | Lab<br>/<br>Field |
|--------------------------|------|------|---------------|------------|------------------------|-----------------------|-----------------------|------|-----------------|---------------|-------------------|-------------------|
| Calibr.                  |      |      |               |            |                        |                       |                       |      |                 |               | P / F             | L / F             |
| ICV                      |      |      |               |            |                        |                       |                       |      |                 |               | P / F             | L / F             |
| CCV                      |      |      |               |            |                        |                       |                       |      |                 |               | P / F             | L / F             |
| CCV                      |      |      |               |            |                        |                       |                       |      |                 |               | P / F             | L / F             |

DO Acceptance criteria from Table  $\pm 0.3$  mg/L.

**Rapid-Pulse Sensors:** DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

**Optical:** DO gain range 0.85 to 1.15 (Pro DSS 0.75 to 1.50); DO charge N/A. **Steady-state & Galvanic Sensors:** DO Gain & Charge N/A.

| Spec.<br>Cond.<br>FT 1200 | Name | Date | Time<br>CT-ET | Lot # | Expir.<br>Date | Standard<br>$\mu$ mhos/cm | Meter<br>Reading<br>$\mu$ mhos/cm | Pass<br>/<br>Fail | Lab<br>/<br>Field |
|---------------------------|------|------|---------------|-------|----------------|---------------------------|-----------------------------------|-------------------|-------------------|
| Calibr.                   |      |      |               |       |                |                           |                                   | P / F             | L / F             |
| ICV                       |      |      |               |       |                |                           |                                   | P / F             | L / F             |
| CCV                       |      |      |               |       |                |                           |                                   | P / F             | L / F             |
| CCV                       |      |      |               |       |                |                           |                                   | P / F             | L / F             |

Conductivity Acceptance criteria  $\pm 5\%$

| pH<br>DEP SOP<br>FT 1100 | Name | Date | Time<br>CT-ET | Lot # | Expir.<br>Date | pH<br>Buffer<br>SU | Temp<br>°C | Meter<br>reading<br>SU | mV | Pass<br>/<br>Fail | Lab<br>/<br>Field |
|--------------------------|------|------|---------------|-------|----------------|--------------------|------------|------------------------|----|-------------------|-------------------|
| Calibr.                  |      |      |               |       |                | 7.                 |            |                        |    | P / F             | L / F             |
| Calibr.                  |      |      |               |       |                | 4.                 |            |                        |    | P / F             | L / F             |
| Calibr.                  |      |      |               |       |                | 10.                |            |                        |    | P / F             | L / F             |
| ICV                      |      |      |               |       |                |                    |            |                        |    | P / F             | L / F             |
| CCV                      |      |      |               |       |                |                    |            |                        |    | P / F             | L / F             |
| CCV                      |      |      |               |       |                |                    |            |                        |    | P / F             | L / F             |

pH Acceptance criteria  $\pm 0.2$  SU; mV pH 7 Range  $0 \pm 50$ ;

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

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

If mV are recorded: slope from 7 to 10 \_\_\_\_\_, slope from 4 to 7 \_\_\_\_\_ (both must be between 165 and 180 mV)

**Does meter have a depth sensor that will be used to measure total depth & sample depth?** YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: \_\_\_\_\_

If NO, what will be used? (circle one) **Secchi Disk Line / Sonar** Unique ID: \_\_\_\_\_; Date of last verification: \_\_\_\_\_

| Depth Sensor<br>(Daily Calibration &<br>ICV) | Name | Date | Time<br>CT-ET | Calibrated<br>Value (0.00 or<br>Offset), meters | ICV Value,<br>meters | Pass /<br>Fail | Lab /<br>Field |
|----------------------------------------------|------|------|---------------|-------------------------------------------------|----------------------|----------------|----------------|
| Pressure mode in air                         |      |      |               |                                                 |                      | 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:**