# FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
# STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2018

Data Qualified? Yes / No

**WIN Station Name:** Aucilla River **Date:** 9/12/18 (mm/dd/yyyy)

**WIN/ Field ID:** G1TLHR0019 **WBID:** 3310 **Latitude:** 30.27991 (Decimal Degrees)

**County:** Jefferson **ORG ID:** 21FLTLHR **Longitude:** 83.84214 (Decimal Degrees)

**Receiving Body of Water:** Gulf of Mexico **RQ-2018-** 09-10-63

| Sampling Team Members | WQ Measurements | Sample Collection | Documentation | Preservation | Preservation Check |
|---|---|---|---|---|---|
| Michael Eckles | X | Y | X | Y | Y |
| Ben Hudson | | Y | | X | X |
| | | | | | |

**Sampling Equipment**
- [X] Sample Container [ ] Van Dorn [ ] Pole
- [ ] Carboy [ ] Syringe
- [ ] Dipper [ ] Other
- Depth Measured with
- Equipment ID

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

**Water Level:** Dry/ Pooled/ Low / Normal / (High) / Flooded **Meter ID#** EXO 152737 **Matrix:** (Fresh) / Marine / DI

**Photos:** Yes / (No) **Flow:** No Flow / Intestital / (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) | 15:15 | 1.2 | 0.3 | 0.2 | 5.28 | 64.7 | 6.47 | 0.02 | 56.1 | 25.644 |
| CEN | | | | | | | | | | |

**Biological Samples Collected:** None HA SCI RPS Algae ID LVS LVI Other:

**SBIO ID Numbers:** SBIO-ID: HA-ID: RPS-ID: Macrophyte-ID: LI #:

| Parameter Suite | Parameter Methods | Preservation | Lot# | Expiration | pH Check |
|---|---|---|---|---|---|
| Preserved Nutrients | [X] W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP | [X] Ice [X] $H_2SO_4$ | SA 810/1020 | 4/11/19 | [ ] <2 |
| Metals | [X] W-ICPMS [X] W-ICP | [X] Ice [X] $HNO_3$ | MA 809/110 | 4/09/19 | [X] <2 |
| Filtered Nutrients | [X] W-PO4-F [X] Field Filtered 0.45 µm Filter | [X] Ice | | | |
| Chlorophyll | [X] CHLSUITE-W | [ ] Ice | | | |
| Physical/Aggregate (Fresh) | [X] Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS | [X] Ice | | | |
| Physical/Aggregate (Marine) | [ ] Alkalinity / W-F / W-TSS / TURBIDITY | [ ] Ice | | | |
| Macroinvertebrates | [ ] MI-FW-QLDC | [ ] Formalin | | | |
| Periphyton | [ ] ALGAE-ID | [ ] Ice | | | |
| Microbiology | [X] E Coli [ ] F Coli [ ] Enterococci | [ ] Ice | | | |
| Molecular | [ ] PCR-FILTER [ ] PCR-HF183 [ ] PCR-BacR [ ] PCR-GULL2 [ ] PCR-GFD | [ ] Ice | | | |
| Tracers | [ ] W-SUC-AA-R [ ] W-UHERB-AA [ ] W-AHERB-AA | [ ] Ice | | | |
| Pesticides | [ ] W-PSNP-TQ [ ] W-UHERB-AA [ ] W-AHERB-AA [ ] W-CARB-AA [ ] W-PCL-SQ-R [ ] W-PYR-AA-R [ ] W-GLYPH [ ] W-SUC-AA-R | [ ] Ice [ ] Other | | | |

Place Preservative Sticker(s) Here (If Available)

**Notes:**

Kit: C-b
Group: D

**Signature:** **Date:**

Enter Field Parameters, Verify Station ID In LIMS DMT: CG 6-20-19 (Initials/Date) QC Station ID, Field Parameters In LIMS DMT: BH 6-20-19 (Initials/Date)

Scan/Save Field Sheets CG 6-20-19 (Initials/Date) Migrate Data to WIN: CG 6-20-19 (Initials/Date) Verify Data In WIN: (Initials/Date)

**Request Number: RQ-2018-09-10-63**

G1 Run 2

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



last revised Jan 25, 2018

**Customer: TLH-ROC**

**Project ID: SMP**

Requester: Michael Eckles

Collected By: Eckles/ Hurden

Field Report Prepared By: Eckles

Sampling Agency: ~~ME~~ 21FLR

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Local
Field Location ↓ — Field/WIN ID → G1TLHR0031
WIN/ ECONFINA RIVER @ MOUTH

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Latitude ☐dd ☐dms | Longitude ☐dd ☐dms | ☐ Comp ☒ Grab | Collection (comp begin or grab) Date 9/12/18 Time 12:00 Eastern Central | Composite end Date Time | Bottle Group(s) (See pg 2) | | | |
| | | Matrix (type, e.g., Salt, Fresh, etc) Salt | Diss. Oxygen ~~5.28~~ ME 5.28 | ☒ mg/L ☐ % sat | Total Res. Chlorine (mg/L) | | | |
| | | Temp (C) 30.64 | pH 7.31 | Sample Depth 0.3 ☐ ft ☒ m | Sp. Conductance (umho/cm) 16481 | | | |
| | | Salinity (ppt) 9.55 | Comments | | | | | |

Location
Field ID — Field/WIN ID → G1TLHR0091
WIN/ST — Location ↓ AUCILLA RIVER @ MOUTH

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Latitude ☐dd ☐dms | Longitude ☐dd ☐dms | ☐ Comp ☒ Grab | Collection (comp begin or grab) Date 9/12/18 Time 13:35 ~~Eastern~~ Central | Composite end Date Time | Bottle Group(s) C | | | |
| | | Matrix (type, e.g., Salt, Fresh, etc) Salt | Diss. Oxygen 5.06 | ☒ mg/L ☐ % sat | Total Res. Chlorine (mg/L) | | | |
| | | Temp (C) 29.49 | pH 7.43 | Sample Depth 0.3 ☐ ft ☒ m | Sp. Conductance (umho/cm) 22468 | | | |
| | | Salinity (ppt) 13.47 | Comments | | | | | |

Locatic
Field Il — Field/WIN ID → G1TLHR0091
WIN/S — Location ↓ AUCILLA RIVER @ MOUTH

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Latitude ☐dd ☐dms | Longitude ☐dd ☐dms | ☐ Comp ☒ Grab | Collection (comp begin or grab) Date 9/12/18 Time 15:15 ~~Eastern~~ Central | Composite end Date Time | Bottle Group(s) D | | | |
| | | Matrix (type, e.g., Salt, Fresh, etc) Fresh | Diss. Oxygen 5.28 | ☒ mg/L ☐ % sat | Total Res. Chlorine (mg/L) | | | |
| | | Temp (C) 25.644 | pH 6.47 | Sample Depth 0.3 ☐ ft ☒ m | Sp. Conductance (umho/cm) 564.1 | | | |
| | | Salinity (ppt) 0.02 | Comments | | | | | |

Location
Field ID
WIN/STORET #

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Latitude ☐dd ☐dms | Longitude ☐dd ☐dms | ☐ Comp ☐ Grab | Collection (comp begin or grab) Date Time | Eastern Central | Composite end Date Time | Bottle Group(s) | | |
| | | Matrix (type, e.g., Salt, Fresh, etc) | Diss. Oxygen | ☐ mg/L ☐ % sat | Total Res. Chlorine (mg/L) | | | |
| | | Temp (C) | pH | Sample Depth ☐ ft ☐ m | Sp. Conductance (umho/cm) | | | |
| | | Salinity (ppt) | Comments | | | | | |

| Relinquished By: | Date/Time | Shipping Method | Number of Coolers Shipped: | Received By: | Date/Time |
|---|---|---|---|---|---|
| Eckles/Hurden | 9/13/18 | HD | | SR | 9-12-18/4:24 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Group: E | Bottle Type: | P-1L | # of Bottles: 5 | Preservative: | ICE | **Enter Number of Bottles Sent to Lab** | |
| | W-F<br>W-SO4-IC<br>W-TDS<br>W-TSS | | | | | | |
| Group: E | Bottle Type: | BP-1L | # of Bottles: 5 | Preservative: | ICE | **Enter Number of Bottles Sent to Lab** | |
| | CHLSUITE-W | | | | | | |
| Group: E | Bottle Type: | P-500ML | # of Bottles: 5 | Preservative: | HNO3 | **Enter Number of Bottles Sent to Lab** | |
| | W-ICP<br>W-ICPMS | | | | | | |
| Group: E | Bottle Type: | P-500ML | # of Bottles: 5 | Preservative: | ICE And H2SO4 | **Enter Number of Bottles Sent to Lab** | |
| | W-NH3<br>W-NO2NO3<br>W-S-A-TP<br>W-TKN<br>W-TOC | | | | | | |
| Group: E | Bottle Type: | P-125ML | # of Bottles: 5 | Preservative: | FILTER-ICE | **Enter Number of Bottles Sent to Lab** | |
| | W-PO4-F | | | | | | |
| Group: F | Bottle Type: | P-250ML-WO-THI | # of Bottles: 2 | Preservative: | ICE | **Enter Number of Bottles Sent to Lab** | |
| | ENT-24-QT | | | | | | |

## 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: EXO 152737 RQ- 2018-09-10-63 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 | 9/12/18 | 7:58 | 21.3 | 758.9 | 8.86 | 8.88 | 100.0 | | 1.08 | P / F | P / F |
| ICV | M.A.Eckles | 9/12/18 | 7:52 | 21.0 | 758.0 | 8.91 | 8.98 | 100.7 | | | P / F | P / F |
| CCV | M.A.Eckles | 9/12/18 | 16:30 | 22.4 | 756.4 | 8.07 | 8.77 | 101.1 | | | P / F | P / F |
| CCV | | | | | | | | | | | P / F | L / F |

DO Acceptance criteria from Table ± 0.3 mg/L. **Rapid-Pulse Sensors:** DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.
**Optical:** DO gain range 0.85 to 1.15 (Pro DSS 0.75 to 1.50); DO charge N/A. **Steady-state & Galvanic Sensors:** DO Gain & Charge N/A.

| Spec. Cond. FT 1200 | Name | Date | Time CT-ET | Lot # | Expir. Date | Standard µmhos/cm | Meter Reading µmhos/cm | Pass / Fail | Lab / Field |
|---|---|---|---|---|---|---|---|---|---|
| Calibr. | M.A.Eckles | 9/12/18 | 7:55 | 180403A | 4/19 | 1060 | 1006 | P / F | P / F |
| ICV | M.A.Eckles | 9/12/18 | 8:00 | 2802833 | 1/20 | 1000 | 100.4 | P / F | P / F |
| CCV | M.A.Eckles | 9/12/18 | 16:31 | 180621B | 7/19 | 58 000 | 5207.1 | P / F | P / F |
| CCV | M.A.Eckles | 9/12/18 | 16:46 | 2802833 | 1/20 | 1000 | 1005 | P / F | P / F |

Conductivity Acceptance criteria ± 5%

| pH DEP SOP FT 1100 | Name | Date | Time CT-ET | Lot # | Expir. Date | pH Buffer SU | Temp °C | Meter reading SU | mV | Pass / Fail | Lab / Field |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Calibr. | M.A.Eckles | 9/12/18 | 8:10 | 140621K | 1/20 | 7. | 21.0 | 7.0 | -47.7 | P / F | P / F |
| Calibr. | M.A.Eckles | 9/12/18 | 8:15 | 180510B | 5/19 | 4. | 20.3 | 4.0 | 131.2 | P / F | P / F |
| Calibr. | M.A.Eckles | 9/12/18 | 8:20 | 180403D | 10/18 | 10. | 21.2 | 10.0 | -176.3 | P / F | P / F |
| ICV | M.A.Eckles | 9/12/18 | 8:25 | 180403D | 10/18 | 10 | 21.0 | 9.95 | -306.3 -20.6 | P / F | P / F |
| CCV | M.A.Eckles | 9/12/18 | 16:45 | 180510B | 5/19 | 4.0 | 21.4 | 4.05 | 125.8 | P / F | P / F |
| CCV | | | | | | | | | | P / F | L / F |

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50; mV pH 4 Range +180 ± 50; mV pH 10 Range -180 ± 50;
If mV are recorded: slope from 7 to 10 _____, slope from 4 to 7 _____ (both must be between 165 and 180 mV)

**Does meter have a depth sensor that will be used to measure total depth & sample depth?** (YES) / NO / NA (not surf. water project)
If **YES**, complete daily Calibr. & ICV below and list date of last quarterly depth verification: _____
If **NO**, what will be used? (circle one) **Secchi Disk Line / Sonar** Unique ID: _____; Date of last verification: _____

| Depth Sensor (Daily Calibration & ICV) | Name | Date | Time CT-ET | Calibrated Value (0.00 or Offset), meters | ICV Value, meters | Pass / Fail | Lab / Field |
|---|---|---|---|---|---|---|---|
| Pressure mode in air | M.A.Eckles | 9/12/18 | 8:30 | 0.00 | 0.00 | P / F | P / F |

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria ± 5 % or ± 0.05m, whichever is greater.

**COMMENTS:**

Form effective August 1, 2018