



# FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

March 2017

PAGE 1 OF 10

Data Qualified?

Yes / No

Location/STORET Station Name: Wakulla River Below US 98

Date: 05/02/2017

STORET # G1WA0028

WBID: 1006VA

Latitude: 30.17607

County: Wakulla

RQ: 2017-05-01-28

ORG ID: 21FLWQA

Longitude: -84.2429

Receiving Body of Water: St. Marks, GOM

Field ID: G1WA0028\_05022017

## Sampling Team Members

Curtis Musson  
Raymond Stuart

WQ Measurements  
Sample Collection  
Documentation  
Preservation  
Preservation Check

XXXXX  
X

## Sampling Equipment

☒ Sample Container ☐ Van Dorn ☐ Pole  
☐ Carboy ☒ Syringe  
☐ Dipper ☐ Other

Equipment ID

## Collection Method

☐ Wading ☐ Via Boat  
☐ From Shore ☐ Canoe/Kayak  
☐ Other (note below) ☐ Electric Motor  
☒ Gasoline Motor

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

Matrix: Fresh / Marine / DI

Meter ID# Biosy #2

Photos: Yes / No

Tide Falling: Yes / No / NA

| Time Zone | Time | Sample Depth (m) | Total Depth (m) | DO (mg/L) | DO (%SAT) | pH   | Salinity (ppt) | Secchi Disk (m) | Sp COND (umhos/cm) | Temp. (C°) |
|-----------|------|------------------|-----------------|-----------|-----------|------|----------------|-----------------|--------------------|------------|
| EST       | 9:05 | 0.3              | 2.5             | 6.25      | 69.7      | 7.70 | 0.19           | VOB             | 400                | 20.69      |
| CEN       | 9:11 | 2.0              |                 | 6.23      | 69.6      | 7.68 | 0.19           |                 | 397                | 20.70      |

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

SBIO ID Numbers: SBIO-ID: RPS-ID: Macrophyte-ID: LIMS#:

| Parameter Suite             | Parameter Methods                                                                                                                                                                                                                                                                                                                                                           | Preservation                                                                      | Acid Lot# | Expiration | pH Check                               |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------|------------|----------------------------------------|
| Preserved Nutrients         | <input checked="" type="checkbox"/> W-NH3 / <input checked="" type="checkbox"/> W-NO2NO3 / <input checked="" type="checkbox"/> W-TKN / <input checked="" type="checkbox"/> W-TOC / <input checked="" type="checkbox"/> W-S-A-TP                                                                                                                                             | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> H2SO4 | 6302030   | 10/28/17   | <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 checked="" type="checkbox"/> Ice                                           |           |            |                                        |
| Physical/Aggregate (Fresh)  | <input checked="" type="checkbox"/> Alkalinity / <input checked="" type="checkbox"/> W-F / <input checked="" type="checkbox"/> W-TSS / <input checked="" type="checkbox"/> TURBIDITY / <input checked="" type="checkbox"/> W-CI-IC / <input checked="" type="checkbox"/> W-COLOR / <input checked="" type="checkbox"/> W-SO4-IC / <input checked="" type="checkbox"/> W-TDS | <input checked="" type="checkbox"/> Ice                                           |           |            |                                        |
| Physical/Aggregate (Marine) | <input type="checkbox"/> Alkalinity / <input type="checkbox"/> W-F / <input type="checkbox"/> W-TSS / <input type="checkbox"/> TURBIDITY                                                                                                                                                                                                                                    | <input type="checkbox"/> Ice                                                      |           |            |                                        |
| 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 type="checkbox"/> F Coli <input type="checkbox"/> Enterococci <input type="checkbox"/> qPCR                                                                                                                                                                                                                                          | <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-AHERB-AA <input type="checkbox"/> W-PYR-AA-R<br><input type="checkbox"/> W-PCL-SQ-R <input type="checkbox"/> W-UHERB-AA <input type="checkbox"/> W-GLYPH <input type="checkbox"/> W-SUC-AA-R                                                                                                                  | <input type="checkbox"/> Ice <input type="checkbox"/> Other                       |           |            |                                        |

Contains

1:1

Sulfuric Acid

SA-6302030

EXP: 10/28/17

Warning!

See SDS

Sticker(s) Here (available)

STORET ↓



G1WA0028

Notes: High Tide at 9:09 AM

Kit A

Field ID →

Wakulla River  
Below Highway  
98 Bridge

May 3, 2017



G1WA0028\_05022017

Signature: *Curtis Musson*

Date: 5-2-17

Field Parameters Entered into LIMS: CM 5-3-17

Field Parameters QC in LIMS:

Date Migrated to STORET:

Field Sheets Scanned/Saved:

# CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boxed "X" this box if there is qualified data on this date

Meter Bio #2 RQ- 2015-05-01-28 Project Smp

- Notes: (1) Numbers  $\leq 4$ , are rounded down; numbers  $\geq 5$  are rounded up (e.g., 5.15 becomes 5.2).  
 (2) Always wait for meter to stabilize before recording any readings.  
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site \_\_\_\_\_

Temperature (Quarterly) FT 1400 Date of Last Temperature Verification 03/06/2017

| DO<br>DEP SOP<br>FT 1500 | Name          | Date   | Time<br>CT-ET | Temp  | D.O.<br>Chart<br>mg/L | Meter<br>D.O.<br>mg/L | % DO  | Probe<br>Charge | Probe<br>Gain | Pass<br>/ Fail | Lab<br>/ Field |
|--------------------------|---------------|--------|---------------|-------|-----------------------|-----------------------|-------|-----------------|---------------|----------------|----------------|
| Calibr.                  | Curtis Mussen | 5/2/17 | 708           | 22.37 | 8.677                 | 8.69                  | 100.0 | 38.0            | -             | P              | LAB            |
| ICV                      | Curtis Mussen | 5/2/17 | 710           | 22.35 | 8.677                 | 8.71                  | 100.4 | 38.0            | -             | P              | LAB            |
| CCV                      | Curtis Mussen | 5/2/17 | 1442          | 22.65 | 8.627                 | 9.80                  | 113.5 | 39.0            | -             | Fail           | CCV            |
| CCV                      |               |        |               |       |                       |                       |       |                 |               |                |                |

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

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; 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>$\mu$ hos/cm | Meter<br>Reading<br>$\mu$ hos/cm | Pass<br>/ Fail | Lab<br>/ Field |
|---------------------------|---------------|--------|---------------|--------|----------------|--------------------------|----------------------------------|----------------|----------------|
| Calibr.                   | Curtis Mussen | 5/2/17 | 712           | 16111D | 11/17          | 1000                     | 1000                             | P              | LAB            |
| ICV                       | Curtis Mussen | 5/2/17 | 713           | 16111D | 11/17          | 1000                     | 1000                             | P              | LAB            |
| CCV                       | Curtis Mussen | 5/2/17 | 1444          | 256F25 | 10/17          | 100                      | 102                              | P              | LAB            |
| CCV                       |               |        |               |        |                |                          |                                  |                |                |

Report specific conductance as a whole number with no decimal figure.

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 | Meter<br>reading<br>SU | mV   | Pass<br>/ Fail | Lab<br>/ Field |
|--------------------------|---------------|--------|---------------|---------|----------------|--------------------|------------------------|------|----------------|----------------|
| Calibr.                  | Curtis Mussen | 5/2/17 | 715           | 16111B  | 5/18           | 7.0                | 7.00                   | -18  | P              | LAB            |
| Calibr.                  | Curtis Mussen | 5/2/17 | 717           | 170310A | 3/18           | 4.0                | 4.01                   | 158  | P              | LAB            |
| Calibr.                  | Curtis Mussen | 5/2/17 | 719           | 16111C  | 5-18           | 10.0               | 9.97                   | -181 | P              | LAB            |
| ICV                      | Curtis Mussen | 5/2/17 | 720           | 16111C  | 5/18           | 10.0               | 9.92                   | -178 | P              | LAB            |
| CCV                      | Curtis Mussen | 5/2/17 | 1446          | 170310A | 3-18           | 3.87               | 3.87                   | 164  | P              | LAB            |
| CCV                      |               |        |               |         |                | 4.01               |                        |      |                |                |

Report pH with one decimal place; pH Acceptance criteria  $\pm 0.2$  SU; mV pH7 Range  $0 \pm 50$ ;

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

mV pH 10 Range  $-180 \pm 50$ ; Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly)

Date of Last Depth Verification \_\_\_\_\_

| Depth Sensor<br>(Daily) | Name | Date | Time<br>CT-ET | Zero the<br>Sensor | ICV Value | Pass /<br>Fail | Lab /<br>Field |
|-------------------------|------|------|---------------|--------------------|-----------|----------------|----------------|
| Pressure mode<br>in air |      |      |               | 0.000              |           |                |                |

ICV acceptance criteria  $\pm 5\%$  or  $\pm 0.05$ m, whichever is greater

Request Number: RQ-2017-05-01-28

Wakulla, Moriah, Caney, Wards

Customer: WQ-ASSESS

Project ID: SMP

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
Central Lab Sample Submittal Form

Requester: Curtis Musson

Collected By: Curtis Musson Raymond Street

Field Report Prepared By: Raymond Street  
Sampling Agency: FDEP

Page 1 of 4

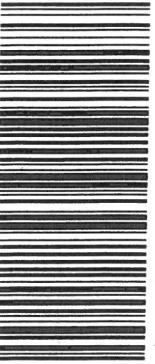
Location

Field ID: →

Wakulla River  
Below Highway  
98 Bridge

May 2, 2017

GTWA0028\_05022017



STORET ↓

Wakulla River  
Below Highway  
98 Bridge



GTWA0028

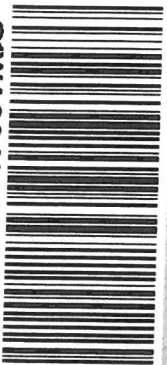
Location

Field ID: →

Wakulla River  
above US 98

May 2, 2017

GTWA0046\_05022017



STORET ↓

Wakulla River  
above US 98



GTWA0046

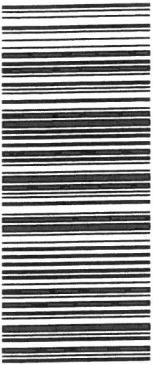
Location

Field ID: →

Moriah Creek 100  
meters upstream  
of Newport Rd.

May 2, 2017

GTWA0057\_05022017



STORET ↓

Moriah Creek 100  
meters upstream  
of Newport Rd.



GTWA0057

☐ Comp

☒ Grab

Date

5/1/17

Time

9:05

Collection (comp begin or grab)

Eastern

Central

Date

Time

Sample Depts

Sp. Conductance

(umho/cm)

400

Bottle

Group(s)

Matrix (Salt, Fresh)

Diss. Oxygen

(mg/L)

6.25

pH

7.70

Temp

20.69

Salinity

(ppt)

0.19

Comments

Latitude (Decimal Degrees)

30.17607

Longitude (Decimal Degrees)

-84.2429

Number of Coolers

3

Received By:

Date/Time

☐ Comp

☒ Grab

Date

5/2/17

Time

9:40

Collection (comp begin or grab)

Eastern

Central

Date

Time

Sample Depts

Sp. Conductance

(umho/cm)

367

Bottle

Group(s)

Matrix (Salt, Fresh)

Diss. Oxygen

(mg/L)

5.73

pH

7.66

Temp

20.50

Salinity

(ppt)

0.18

Comments

Latitude (Decimal Degrees)

30.17963

Longitude (Decimal Degrees)

-84.24759

Number of Coolers

3

Received By:

Date/Time

☐ Comp

☒ Grab

Date

5/2/17

Time

10:20

Collection (comp begin or grab)

Eastern

Central

Date

Time

Sample Depts

Sp. Conductance

(umho/cm)

457

Bottle

Group(s)

Matrix (Salt, Fresh)

Diss. Oxygen

(mg/L)

3.96

pH

6.91

Temp

19.63

Salinity

(ppt)

0.22

Comments

Latitude (Decimal Degrees)

30.1857

Longitude (Decimal Degrees)

-84.1929

Number of Coolers

3

Received By:

Date/Time

Relinquished By:

Date/Time

5/2/17 1:57pm

Number of Coolers

3

Received By:

Date/Time

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
**Central Lab Sample Submittal Form**

Request Number: RQ-2017-05-01-28  
 Wakulla, Moriah, Caney, Wards  
 Customer: WQ-ASSESS  
 Project ID: SMP

Requester: Curtis Musson

Field Report Prepared By: \_\_\_\_\_  
 Sampling Agency: FDEP

Collected By: \_\_\_\_\_

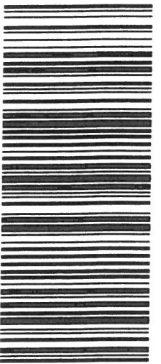
**Location**

Field IC →

Caney Creek  
 Upstream of  
 Field US 90

May 3, 2017

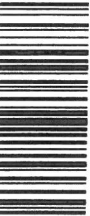
GIWA00014\_05022017



STORET ↓

Caney Creek  
 Upstream of  
 US 90

GIWA00014



|                                          |                                 |                                      |                                          |                                 |      |                                |
|------------------------------------------|---------------------------------|--------------------------------------|------------------------------------------|---------------------------------|------|--------------------------------|
| <input type="checkbox"/> Comp            | Collection (comp begin or grab) |                                      | <input checked="" type="radio"/> Eastern | Collection (comp begin or grab) |      | Bottle Group(s)<br><br>B C D E |
| <input checked="" type="checkbox"/> Grab | Date 5/2/17                     | Time 11:30                           | Central                                  | Date                            | Time |                                |
| Matrix (Salt, Fresh)                     | Dis. Oxygen (mg/L) 9.95         |                                      |                                          |                                 |      |                                |
| Temp (C) 20.82                           | pH 7.43                         |                                      | Sample Depts (m) 0.05                    | Sp. Conductance (umho/cm) 134   |      |                                |
| Salinity (ppt) 0.06                      | Comments                        |                                      |                                          |                                 |      |                                |
| Latitude (Decimal Degrees) 30.5325       |                                 | Longitude (Decimal Degrees) -83.9501 |                                          |                                 |      |                                |

**Location**

Field IC →

Wards Creek  
 upstream of  
 bridge at CR 259

May 3, 2017

GIWA00002\_05022017



STORET ↓

Wards Creek  
 upstream of  
 bridge at CR 259

GIWA00002



|                                          |                                 |                                        |                                          |                                 |      |                              |
|------------------------------------------|---------------------------------|----------------------------------------|------------------------------------------|---------------------------------|------|------------------------------|
| <input type="checkbox"/> Comp            | Collection (comp begin or grab) |                                        | <input checked="" type="radio"/> Eastern | Collection (comp begin or grab) |      | Bottle Group(s)<br><br>C D E |
| <input checked="" type="checkbox"/> Grab | Date 5/2/17                     | Time 12:10                             | Central                                  | Date                            | Time |                              |
| Matrix (Salt, Fresh)                     | Dis. Oxygen (mg/L) 1.66         |                                        |                                          |                                 |      |                              |
| Temp (C) 21.28                           | pH 5.61                         |                                        | Sample Depts (m) 0.15                    | Sp. Conductance (umho/cm) 54    |      |                              |
| Salinity (ppt) 0.02                      | Comments                        |                                        |                                          |                                 |      |                              |
| Latitude (Decimal Degrees) 30.605000     |                                 | Longitude (Decimal Degrees) -83.893257 |                                          |                                 |      |                              |

**Location**

Field IC →

Caney Creek  
 Downstream of  
 of 158A

May 3, 2017

GIWA00000\_05022017



STORET ↓

Caney Creek  
 Downstream of  
 of 158A

GIWA00000



|                                          |                                 |                                    |                                          |                                 |      |                                  |
|------------------------------------------|---------------------------------|------------------------------------|------------------------------------------|---------------------------------|------|----------------------------------|
| <input type="checkbox"/> Comp            | Collection (comp begin or grab) |                                    | <input checked="" type="radio"/> Eastern | Collection (comp begin or grab) |      | Bottle Group(s)<br><br>A B C D E |
| <input checked="" type="checkbox"/> Grab | Date 5/2/17                     | Time 12:48                         | Central                                  | Date                            | Time |                                  |
| Matrix (Salt, Fresh)                     | Dis. Oxygen (mg/L) 9.20         |                                    |                                          |                                 |      |                                  |
| Temp (C) 21.88                           | pH 6.82                         |                                    | Sample Depts (m) 0.05                    | Sp. Conductance (umho/cm) 133   |      |                                  |
| Salinity (ppt) 0.06                      | Comments                        |                                    |                                          |                                 |      |                                  |
| Latitude (Decimal Degrees) 30.52         |                                 | Longitude (Decimal Degrees) -83.94 |                                          |                                 |      |                                  |

Relinquished By: \_\_\_\_\_

Date/Time

Number of Coolers

Received By: \_\_\_\_\_

Date/Time

|          |              |         |                 |               |               |                                     |      |
|----------|--------------|---------|-----------------|---------------|---------------|-------------------------------------|------|
| Group: A | Bottle Type: | P-1L    | # of Bottles: 4 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 2943 |
|          | ALKALINITY   |         |                 |               |               |                                     |      |
|          | TURBIDITY    |         |                 |               |               |                                     |      |
|          | W-CL-IC      |         |                 |               |               |                                     |      |
|          | W-COLOR      |         |                 |               |               |                                     |      |
|          | W-F          |         |                 |               |               |                                     |      |
|          | W-SO4-IC     |         |                 |               |               |                                     |      |
|          | W-TDS        |         |                 |               |               |                                     |      |
|          | W-TSS        |         |                 |               |               |                                     |      |
| Group: A | Bottle Type: | BP-1L   | # of Bottles: 4 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 2943 |
|          | CHLSUITE-W   |         |                 |               |               |                                     |      |
| Group: A | Bottle Type: | P-500ML | # of Bottles: 4 | Preservative: | ICE And H2SO4 | Enter Number of Bottles Sent to Lab | 2943 |
|          | W-NH3        |         |                 |               |               |                                     |      |
|          | W-NO2NO3     |         |                 |               |               |                                     |      |
|          | W-S-A-TP     |         |                 |               |               |                                     |      |
|          | W-TKN        |         |                 |               |               |                                     |      |
|          | W-TOC        |         |                 |               |               |                                     |      |
| Group: A | Bottle Type: | P-125ML | # of Bottles: 4 | Preservative: | ICE-FLTR      | Enter Number of Bottles Sent to Lab | 2943 |
|          | W-PO4-F      |         |                 |               |               |                                     |      |
| Group: B | Bottle Type: | P-1L    | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 2    |
|          | ALKALINITY   |         |                 |               |               |                                     |      |
|          | TURBIDITY    |         |                 |               |               |                                     |      |
|          | W-CL-IC      |         |                 |               |               |                                     |      |
|          | W-COLOR      |         |                 |               |               |                                     |      |
|          | W-F          |         |                 |               |               |                                     |      |
|          | W-SO4-IC     |         |                 |               |               |                                     |      |
|          | W-TDS        |         |                 |               |               |                                     |      |
|          | W-TSS        |         |                 |               |               |                                     |      |
| Group: B | Bottle Type: | BP-1L   | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 2    |
|          | CHLSUITE-W   |         |                 |               |               |                                     |      |
| Group: B | Bottle Type: | P-500ML | # of Bottles: 2 | Preservative: | HNO3          | Enter Number of Bottles Sent to Lab | 2    |
|          | W-ICP        |         |                 |               |               |                                     |      |
|          | W-ICPMS      |         |                 |               |               |                                     |      |

|          |              |                |                 |                             |                                     |   |
|----------|--------------|----------------|-----------------|-----------------------------|-------------------------------------|---|
| Group: B | 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: B | Bottle Type: | P-125ML        | # of Bottles: 2 | Preservative: ICE-FLTR      | Enter Number of Bottles Sent to Lab | 2 |
|          | W-PO4-F      |                |                 |                             |                                     |   |
| Group: C | Bottle Type: | P-250ML-WO-THI | # of Bottles: 3 | Preservative: ICE           | Enter Number of Bottles Sent to Lab | 3 |
|          | ECOLI-18QT   |                |                 |                             |                                     |   |
| Group: D | Bottle Type: | BG-1L          | # of Bottles: 3 | Preservative: ICE           | Enter Number of Bottles Sent to Lab | 3 |
|          | W-AHERB-AA   |                |                 |                             |                                     |   |
|          | W-SUC-AA-R   |                |                 |                             |                                     |   |
|          | W-UHERB-AA   |                |                 |                             |                                     |   |
| Group: E | Bottle Type: | QPCR-P-250ML   | # of Bottles: 6 | Preservative: ICE           | Enter Number of Bottles Sent to Lab | 6 |
|          | PCR-HF183    |                |                 |                             |                                     |   |

Cooler Packing Worksheet for Request: RQ-2017-05-01-28

Wakulla, Moriah, Caney, Wards

Ship Cooler On: 4/17/2017

Customer/Project: WQ-ASSESS/SMP

Assigned To:

Requester: Curtis Musson

Priority: 3

850-245-8453  
Division Of Water Facilities, FL DEP  
2600 Blair Stone Rd.  
Tallahassee, FL 32399-2400  
Attn: curtis musson

Comments:

No preservatives needed.

Group A: Freshwater Nutrient Kit  
Group B: Freshwater Nutrient Kit With Metals  
Group C: E. coli  
Group D: Organics (Wastewater Tracers)  
Group E: PCR HF183

Packing Notes:

No FedEx labels needed, samples will be dropped off

**Requested Analyses:**

**Bottle Group: A**

**# of Sites: 4**

Container ID: P-1L

Qty: 4      Preservation: ICE

Lot # 55067991

Description: Plastic Bottle 1L

**Analysis**

ALKALINITY

TURBIDITY

W-CL-IC

W-COLOR

W-F

W-SO4-IC

W-TDS

W-TSS

**Description**

Alkalinity in aqueous matrices as mg CaCO3/L

Turbidity in aqueous matrices

Chloride in aqueous matrices

True Color measured at 450 nm

Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)

Sulfate in aqueous matrices

Total Dissolved Solids in aqueous matrices

Total Suspended Solids in aqueous matrices

Container ID: BP-1L

Qty: 4      Preservation: ICE

Lot # 1196409

Description: Brown Plastic Bottle 1L

**Analysis**

CHLSUITE-W

**Description**

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

Container ID: P-500ML

Qty: 4 Preservation: ICE And H2SO4

Lot # 00067590

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

**Analysis**

W-NH3  
W-NO2NO3  
W-S-A-TP  
W-TKN  
W-TOC

**Description**

Ammonia in aqueous matrices as mg N/L  
Nitrite/Nitrate in aqueous matrices as mg N/L  
Total Phosphorus in aqueous matrices as mg P/L  
Total Kjeldahl Nitrogen in aqueous matrices  
Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML

Qty: 4 Preservation: ICE-FLTR

Lot # 00066993

Description: Plastic Bottle 125 mL

**Analysis**

W-PO4-F

**Description**

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

**Bottle Group: B**

**# of Sites: 2**

Container ID: P-1L

Qty: 2 Preservation: ICE

Lot # 00067591

Description: Plastic Bottle 1L

**Analysis**

ALKALINITY  
TURBIDITY  
W-CL-IC  
W-COLOR  
W-F  
W-SO4-IC  
W-TDS  
W-TSS

**Description**

Alkalinity in aqueous matrices as mg CaCO3/L  
Turbidity in aqueous matrices  
Chloride in aqueous matrices  
True Color measured at 450 nm  
Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)  
Sulfate in aqueous matrices  
Total Dissolved Solids in aqueous matrices  
Total Suspended Solids in aqueous matrices

Container ID: BP-1L

Qty: 2 Preservation: ICE

Lot # 1196409

Description: Brown Plastic Bottle 1L

**Analysis**

CHLSUITE-W

**Description**

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

Container ID: P-500ML

Qty: 2 Preservation: HNO3

Lot # 80067590

Description: Plastic Bottle 500 mL

Affix RED nitric acid dot to container.

Analysis

W-ICP

W-ICPMS

Description

Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects

Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

Container ID: P-500ML

Qty: 2 Preservation: ICE And H2SO4

Lot # 80067590

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis

W-NH3

W-NO2NO3

W-S-A-TP

W-TKN

W-TOC

Description

Ammonia in aqueous matrices as mg N/L

Nitrite/Nitrate in aqueous matrices as mg N/L

Total Phosphorus in aqueous matrices as mg P/L

Total Kjeldahl Nitrogen in aqueous matrices

Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML

Qty: 2 Preservation: ICE-FLTR

Lot # 1196409

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

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

Bottle Group: C

# of Sites: 3

Container ID: P-250ML-WO-THI

Qty: 3 Preservation: ICE

Lot # L17013

Description:

Analysis

ECOLI-18QT

Description

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

Bottle Group: D

# of Sites: 3

Container ID: BG-1L

Qty: 3 Preservation: ICE

Lot # 1196409

Description: Brown Glass Bottle 1L

Affix BLUE dot to container.

Analysis

Description

W-AHERB-AA  
W-SUC-AA-R  
W-UHERB-AA

Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS  
Analysis of sucralose in water matrices by HPLC/MS/MS  
Urea herbicides and other chemicals in water matrices by HPLC/MS/MS

**Bottle Group: E**

**# of Sites: 3**

Container ID: QPCR-P-250ML

Qty: 6      Preservation: ICE

Lot # 5066780

Description:

**Analysis**

PCR-HF183

**Description**

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

Cooler Packed By: ATK      Date: \_\_\_\_\_

DEP Cooler ID #(s): 3 \_\_\_\_\_

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle (1 per cooler)
- ☐ FedEx Bills, if applicable (1 per cooler)
- ☒ Plastic Bags
- ☒ Zip Ties

If Preservation Included:

|          |             |
|----------|-------------|
| ID _____ | Lot # _____ |
| ID _____ | Lot # _____ |
| ID _____ | Lot # _____ |
| ID _____ | Lot # _____ |
| ID _____ | Lot # _____ |

**PLEASE RETURN ALL COOLERS FOR RQ-2017-05-01-28**