

# Florida Department of Environmental Protection

## Central Laboratory Submittal Form

REF SCI

last revised Apr 7, 2016

Customer: SW-DIST

Requester: Judy Ashton

Field Report Prepared By: Judy Ashton

Project ID: SCIREF

Collected By: J. Ashton, S. ErnstSampling Agency: FALP

|          |                                                                 |                                                                           |                                                                             |                |                                                                                                            |                                        |                                                                                 |                                         |
|----------|-----------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------|----------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------|
| Location |                                                                 | <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab | Collection (comp begin or grab)<br>Date <u>11/29/2016</u> Time <u>12 20</u> |                | <input checked="" type="checkbox"/> Eastern<br><input type="checkbox"/> Central                            | Composite end<br>Date _____ Time _____ |                                                                                 | Bottle Group(s)<br>(See pg 2)           |
| Field ID | <u>RQ-2016-11-28-39</u><br>Date: <u>11/29/16</u><br>Time: _____ | Matrix (type, e.g., Salt, Fresh, etc)<br><u>Fresh</u>                     |                                                                             | Diss. Oxygen   | <u>8.9</u> <input checked="" type="checkbox"/> mg/L<br><u>98</u> <input checked="" type="checkbox"/> % sat | Total Res. Chlorine<br>(mg/L)          |                                                                                 |                                         |
| STORET # | <u>TP11</u><br><small>Little Manatee Ref Stream</small>         | Temp (C)                                                                  | <u>19.9</u>                                                                 | pH             | <u>7.4</u>                                                                                                 | Sample Depth                           | <u>0.3</u> <input type="checkbox"/> ft<br><input checked="" type="checkbox"/> m | Sp. Conductance<br>(umho/cm) <u>417</u> |
| Latitude | <input type="checkbox"/> dd<br><input type="checkbox"/> dms     | Longitude                                                                 | <input type="checkbox"/> dd<br><input type="checkbox"/> dms                 | Salinity (ppt) | <u>0.2</u>                                                                                                 | Comments                               |                                                                                 |                                         |
| Location |                                                                 | <input type="checkbox"/> Comp<br><input type="checkbox"/> Grab            | Collection (comp begin or grab)<br>Date _____ Time _____                    |                | <input type="checkbox"/> Eastern<br><input type="checkbox"/> Central                                       | Composite end<br>Date _____ Time _____ |                                                                                 | Bottle Group(s)                         |
| Field ID |                                                                 | Matrix (type, e.g., Salt, Fresh, etc)                                     |                                                                             | Diss. Oxygen   | <input type="checkbox"/> mg/L<br><input type="checkbox"/> % sat                                            | Total Res. Chlorine<br>(mg/L)          |                                                                                 |                                         |
| STORET # |                                                                 | Temp (C)                                                                  |                                                                             | pH             |                                                                                                            | Sample Depth                           | <input type="checkbox"/> ft<br><input type="checkbox"/> m                       | Sp. Conductance<br>(umho/cm)            |
| Latitude | <input type="checkbox"/> dd<br><input type="checkbox"/> dms     | Longitude                                                                 | <input type="checkbox"/> dd<br><input type="checkbox"/> dms                 | Salinity (ppt) |                                                                                                            | Comments                               |                                                                                 |                                         |
| Location |                                                                 | <input type="checkbox"/> Comp<br><input type="checkbox"/> Grab            | Collection (comp begin or grab)<br>Date _____ Time _____                    |                | <input type="checkbox"/> Eastern<br><input type="checkbox"/> Central                                       | Composite end<br>Date _____ Time _____ |                                                                                 | Bottle Group(s)                         |
| Field ID |                                                                 | Matrix (type, e.g., Salt, Fresh, etc)                                     |                                                                             | Diss. Oxygen   | <input type="checkbox"/> mg/L<br><input type="checkbox"/> % sat                                            | Total Res. Chlorine<br>(mg/L)          |                                                                                 |                                         |
| STORET # |                                                                 | Temp (C)                                                                  |                                                                             | pH             |                                                                                                            | Sample Depth                           | <input type="checkbox"/> ft<br><input type="checkbox"/> m                       | Sp. Conductance<br>(umho/cm)            |
| Latitude | <input type="checkbox"/> dd<br><input type="checkbox"/> dms     | Longitude                                                                 | <input type="checkbox"/> dd<br><input type="checkbox"/> dms                 | Salinity (ppt) |                                                                                                            | Comments                               |                                                                                 |                                         |
| Location |                                                                 | <input type="checkbox"/> Comp<br><input type="checkbox"/> Grab            | Collection (comp begin or grab)<br>Date _____ Time _____                    |                | <input type="checkbox"/> Eastern<br><input type="checkbox"/> Central                                       | Composite end<br>Date _____ Time _____ |                                                                                 | Bottle Group(s)                         |
| Field ID |                                                                 | Matrix (type, e.g., Salt, Fresh, etc)                                     |                                                                             | Diss. Oxygen   | <input type="checkbox"/> mg/L<br><input type="checkbox"/> % sat                                            | Total Res. Chlorine<br>(mg/L)          |                                                                                 |                                         |
| STORET # |                                                                 | Temp (C)                                                                  |                                                                             | pH             |                                                                                                            | Sample Depth                           | <input type="checkbox"/> ft<br><input type="checkbox"/> m                       | Sp. Conductance<br>(umho/cm)            |
| Latitude | <input type="checkbox"/> dd<br><input type="checkbox"/> dms     | Longitude                                                                 | <input type="checkbox"/> dd<br><input type="checkbox"/> dms                 | Salinity (ppt) |                                                                                                            | Comments                               |                                                                                 |                                         |

|                                   |                                  |                              |                                     |                                 |                                 |
|-----------------------------------|----------------------------------|------------------------------|-------------------------------------|---------------------------------|---------------------------------|
| Relinquished By: <u>J. Ashton</u> | Date/Time: <u>11-29-16 17:00</u> | Shipping Method: <u>FALP</u> | Number of Coolers Shipped: <u>1</u> | Received By: <u>[Signature]</u> | Date/Time: <u>11-30-16 9:55</u> |
|-----------------------------------|----------------------------------|------------------------------|-------------------------------------|---------------------------------|---------------------------------|

|          |                                                                                               |                |                 |               |               |                                     |   |
|----------|-----------------------------------------------------------------------------------------------|----------------|-----------------|---------------|---------------|-------------------------------------|---|
| Group: A | Bottle Type:                                                                                  | P-1L           | # of Bottles: 1 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 1 |
|          | ALKALINITY<br>TURBIDITY<br>W-BR-IC<br>W-CL-IC<br>W-COLOR<br>W-F<br>W-SO4-IC<br>W-TDS<br>W-TSS |                |                 |               |               |                                     |   |
| Group: A | Bottle Type:                                                                                  | BP-1L          | # of Bottles: 1 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 1 |
|          | CHLSUITE-W                                                                                    |                |                 |               |               |                                     |   |
| Group: A | Bottle Type:                                                                                  | QPCR-P-250ML   | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 2 |
|          | PCR-HF183                                                                                     |                |                 |               |               |                                     |   |
| Group: A | Bottle Type:                                                                                  | P-500ML        | # of Bottles: 1 | Preservative: | HNO3          | Enter Number of Bottles Sent to Lab | 1 |
|          | W-ICP                                                                                         |                |                 |               |               |                                     |   |
| Group: A | Bottle Type:                                                                                  | P-500ML        | # of Bottles: 1 | Preservative: | ICE And H2SO4 | Enter Number of Bottles Sent to Lab | 1 |
|          | W-NH3<br>W-NO2NO3<br>W-S-A-TP<br>W-TKN<br>W-TOC                                               |                |                 |               |               |                                     |   |
| Group: A | Bottle Type:                                                                                  | BG-1L          | # of Bottles: 1 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 1 |
|          | W-SUC-AA-R<br>W-UHERB-AA                                                                      |                |                 |               |               |                                     |   |
| Group: B | Bottle Type:                                                                                  | PJ-2L          | # of Bottles: 4 | Preservative: | Formalin      | Enter Number of Bottles Sent to Lab | 2 |
|          | MI-FW-QLDC                                                                                    |                |                 |               |               |                                     |   |
| Group: C | Bottle Type:                                                                                  | P-120ML-WC-THI | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 0 |
|          | SWD-AEL-FC                                                                                    |                |                 |               |               |                                     |   |

Dropped off @ AEL

1 Algal Sample Rank 3-6



6601 Southpoint Pkwy. • Jacksonville, FL 32216 • 904 363 9350 • Fax 904 363 9354 • E82574  
9610 Princess Palm Ave. • Tampa, FL 33619 • 813 630 9816 • Fax 813 630 4327 • E84589  
2106 NW 67th Place, Ste. 7 • Gainesville, FL 32606 • 352 367 1500 • Fax 352 367 0050 • E82620  
528 S. North Lake Blvd., Ste 1018 • Altamonte Springs, FL 32701 • 407 937 1594 • Fax 407 937 1597 • E53076

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revised 1/12

Date of Request: 09-NOV-2016  
 Created By: ASHTON\_J On: 09-NOV-2016  
 Modified By: MATTHEWS\_D On: 17-NOV-2016  
 Customer: SW-DIST  
 Project: SCIREF  
 Division: Division of Environmental Assessment and Restoration  
 District: Southwest District  
 Sampling Event: REF SCI

**Send Coolers To:**

Phone: 813-470-5951  
 FL Dept. of Environmental Protection  
 13051 N. Telecom Parkway  
 Temple Terrace, FL 33637-0926  
 Attn: Matthew Bearden

Program Module Number:  
 Priority: 3  
 Event Status: R  
 Criminal Investigation: NO  
 Chemistry Request Reviewed By: WATTS\_J On: 14-NOV-2016  
 Biology Request Reviewed By: MATTHEWS\_D On: 17-NOV-2016  
 Sampling Kit Required: YES Ship on: 23-NOV-2016  
 Sampling Kit Shipped: YES On: 23-NOV-2016  
 Sampling Kit Packed By: WATTS\_J  
 Preservatives Needed: NO  
 Date to Receive Samples: 29-NOV-2016  
 Received By: SHAIK\_A On: 30-NOV-2016

**Send Final Report To:**

FL Dept. of Environmental Protection  
 13051 N. Telecom Parkway  
 Temple Terrace, FL 33637-0926  
 Attn: matthew.bearden@dep.state.fl.us

Report Type: Final Only  
 FTP Data: NO  
 QC Report: YES  
 Date Log: NO  
 Authorization Log: NO

Comments: Add PCR-HF183 to Bottle Group A

**Bottle Group A (Water) With 1 Samples:**

|                                   |                      |                                                                                                                                                |
|-----------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-1L                 | Number of Bottles: 1 | Preserved With: ICE                                                                                                                            |
| ALKALINITY                        | Template: DEFAULT    | (SM 2320 B-97) Alkalinity in aqueous matrices as mg CaCO <sub>3</sub> /L                                                                       |
| TURBIDITY                         | Template: DEFAULT    | (EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices                                                                                             |
| W-BR-IC                           | Template: DEFAULT    | (EPA 300.0) Bromide in aqueous matrices                                                                                                        |
| W-CL-IC                           | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Chloride in aqueous matrices                                                                                              |
| W-COLOR                           | Template: DEFAULT    | (SM 2120 B) True Color measured at 450 nm                                                                                                      |
| Color (true)                      |                      |                                                                                                                                                |
| W-F                               | Template: DEFAULT    | (SM 4500 F-C-97) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)                                           |
| W-SO4-IC                          | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Sulfate in aqueous matrices                                                                                               |
| W-TDS                             | Template: DEFAULT    | (SM 2540 C-97) Total Dissolved Solids in aqueous matrices                                                                                      |
| W-TSS                             | Template: DEFAULT    | (SM 2540 D-97) Total Suspended Solids in aqueous matrices                                                                                      |
| Bottle Type: BP-1L                | Number of Bottles: 1 | Preserved With: ICE                                                                                                                            |
| CHLSUITE-W                        | Template: DEFAULT    | (SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry                             |
| Bottle Type: QPCR-P-250ML         | Number of Bottles: 2 | Preserved With: ICE                                                                                                                            |
| PCR-HF183                         | Template: DEFAULT    | (SOP-PCR-1.0) Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction      |
| Bottle Type: P-500ML              | Number of Bottles: 1 | Preserved With: HNO <sub>3</sub>                                                                                                               |
| W-ICP                             | Template:            | (EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects |
| Calcium                           |                      |                                                                                                                                                |
| Magnesium                         |                      |                                                                                                                                                |
| Potassium                         |                      |                                                                                                                                                |
| Sodium                            |                      |                                                                                                                                                |
| Bottle Type: P-500ML              | Number of Bottles: 1 | Preserved With: ICE And H <sub>2</sub> SO <sub>4</sub>                                                                                         |
| W-NH <sub>3</sub>                 | Template: DEFAULT    | (EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L                                                                                     |
| W-NO <sub>2</sub> NO <sub>3</sub> | Template: DEFAULT    | (EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L                                                                             |
| W-S-A-TP                          | Template: DEFAULT    | (EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L                                                                            |



**Bottle Group A (Water) With 1 Samples:**

|                      |                      |                                                                                      |
|----------------------|----------------------|--------------------------------------------------------------------------------------|
| Bottle Type: P-500ML | Number of Bottles: 1 | Preserved With: ICE And H2SO4                                                        |
| W-TKN                | Template: DEFAULT    | (EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices                     |
| W-TOC                | Template: DEFAULT    | (SM 5310 B-00) Nonpurgeable Organic Carbon in aqueous matrices                       |
| Bottle Type: BG-1L   | Number of Bottles: 1 | Preserved With: ICE                                                                  |
| W-SUC-AA-R           | Template: DEFAULT    | (EPA 8321B) Analysis of sucralose in water matrices by HPLC/MS/MS                    |
| W-UHERB-AA           | Template: DEFAULT    | (USGS O-2060-01) Urea herbicides and other chemicals in water matrices by HPLC/MS/MS |

**Bottle Group B (Biological) With 2 Samples:**

|                    |                      |                                                                |
|--------------------|----------------------|----------------------------------------------------------------|
| Bottle Type: PJ-2L | Number of Bottles: 4 | Preserved With: Formalin                                       |
| MI-FW-QLDC         | Template: DEFAULT    | (SOP-IZ06) No. Taxa of FW macroinverts, qual samp, 20 dipnets. |

**Bottle Group C (Water) With 2 Samples:**

|              |                      |                                                                                                               |
|--------------|----------------------|---------------------------------------------------------------------------------------------------------------|
| Bottle Type: | Number of Bottles: 2 | Preserved With: ICE                                                                                           |
| SWD-AEL-FC   | Template: DEFAULT    | (SM 9222 D) Fecal coliforms by membrane filter method by Advanced Environmental Overflow Laboratories for SWD |

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\* - The laboratory is not NELAP certified for this analyte/method, or certification is not applicable.

# Log-in Checklist

RQ- 2016-11-28-39

Shipping Method: Fed Ex

Date/Time of Receipt: 11-30-16/9:55

| Cooler ID | Cooler Temperature* | No. Sample Containers in Cooler | Evidence Tape |    |          |    | Tracking # (fill out only if waybill copy is damaged) |
|-----------|---------------------|---------------------------------|---------------|----|----------|----|-------------------------------------------------------|
|           |                     |                                 | Present?      |    | *Intact? |    |                                                       |
|           |                     |                                 | Yes           | No | Yes      | No |                                                       |
| Blue      | 0.9C                | 19                              |               | /  |          |    | 81039283 8843                                         |
|           |                     |                                 |               |    |          |    |                                                       |
|           |                     |                                 |               |    |          |    |                                                       |
|           |                     |                                 |               |    |          |    |                                                       |
|           |                     |                                 |               |    |          |    |                                                       |
|           |                     |                                 |               |    |          |    |                                                       |

\*If the temperature of a cooler is above 6.0 °C (or above 10.0 °C for W-1-4-DIOX), or if Evidence Seal is damaged, identify the containers in the affected cooler(s) on back of this form.

**\*\*Note:** If "No" is checked in any of the fields below, fill out the back of this form with additional details (Field ID, Test IDs, etc.) and generate an NCR.

**\*\*Chain of Custody/ Field Sheet(s) Included?** Yes ☒ No ☐

## CONTAINER CHECK

**\*\*Evidence Tape on Bottles?** Yes ☐ No ☒ If yes, is it intact? Yes ☐ No ☐

**\*\*Caps on tight?** Yes ☒ No ☐ **\*\*Containers intact?** Yes ☒ No ☐

**\*\*Sufficient Sample Volume:** Yes ☒ No ☐

## CHLORINE CHECK (Blue dot on container)

| Check the Box marked "Yes" or "No" for the Presence of Chlorine. If Cl detected, an NCR is required. |     |    |               |     |    |
|------------------------------------------------------------------------------------------------------|-----|----|---------------|-----|----|
| Analysis                                                                                             | Yes | No | Analysis      | Yes | No |
| W-1,4 DIOX                                                                                           |     |    | W-PC-AA-SF    |     |    |
| W-AHERB-AA (-AHB-AA-R)                                                                               |     |    | W-PCL-SQ (-R) |     |    |
| W-BNA (-625, -R)                                                                                     |     |    | W-PDQUAT      |     |    |
| W-CARB-AA (-CAB-AA-R)                                                                                |     |    | W-PESTNP-R    |     |    |
| W-ENDO-AA                                                                                            |     |    | W-PSCL-TQ     |     |    |
| W-GLYPH                                                                                              |     |    | W-PSNP-TQ     |     |    |
| W-NP-AA-SF                                                                                           |     |    | W-PST-CL-R    |     |    |
| W-PAH (-R)                                                                                           |     |    | W-TR-TQ       |     |    |
| W-PCB-R                                                                                              |     |    |               |     |    |

## PRESERVATION CHECK (EXCLUDING SAMPLES SENT TO OVERFLOW LABS, "OV-")

**\*\*Acid Preserved Samples:** pH ≤ 2.0? Yes ☒ No ☐ NA ☐ Init: APG

**\*\*W-1-4-DIOX (Green dot on container) preserved to pH < 4.0?** Yes ☐ No ☒ NA ☐ Init: APG

Coolers Unpacked/Checked by: APG Date: 11-30-16 NCRs (Y/N)? —

Event ID: REF SCI NCR # —

SW-DIST-2016-11-30-01 (SC|REF)

Date Received: 30-NOV-2016 09:55

## Log-in Checklist

### Samples with Incorrect pH Preservation or presence of Chlorine

| Field ID | Bottle Test ID(s) | pH / Cl | Action Taken |
|----------|-------------------|---------|--------------|
|          |                   |         |              |
|          |                   |         |              |
|          |                   |         |              |
|          |                   |         |              |

### Samples in Coolers with Incorrect Preservation or Damaged Evidence Tape

| Cooler ID | Field ID | Bottle Test ID(s) |
|-----------|----------|-------------------|
|           |          |                   |
|           |          |                   |
|           |          |                   |
|           |          |                   |
|           |          |                   |

### Bottles Not Intact

| Field ID | Bottle Test ID(s) | Loose Cap | Damaged Cap |    | Damaged Container |    | Evidence Tape Not Intact |
|----------|-------------------|-----------|-------------|----|-------------------|----|--------------------------|
|          |                   |           | CK          | BR | CK                | BR |                          |
|          |                   |           |             |    |                   |    |                          |
|          |                   |           |             |    |                   |    |                          |
|          |                   |           |             |    |                   |    |                          |

### Samples with Insufficient Volume for Analyses

| Field ID | Bottle Test ID(s) | Action Taken |
|----------|-------------------|--------------|
|          |                   |              |
|          |                   |              |
|          |                   |              |
|          |                   |              |

## ENCORE SAMPLES

**S-VOC-MS samples in Encores must be frozen within 48 hours of collection.**

Were Encore samples received? Yes\_\_\_\_ No\_\_\_\_

Date and time placed in freezer \_\_\_\_\_

Were all samples placed in freezer within 48 hours of collection? Yes\_\_\_\_ No\_\_\_\_

If no, were samples shipped on dry ice? Yes\_\_\_\_ No\_\_\_\_

**FOR CLEAN LAB USE ONLY – Total Mercury Preservation Check (W-HG-AF; W-HG-AF-F):**

Samples preserved within 48 hours? Yes\_\_\_\_ No\_\_\_\_

Date and time samples preserved: \_\_\_\_\_

**Additional Comments:**