

# Log-in Checklist

RQ- 2018-11-05-29

Login Station ID: #3

Shipping Method: FedEx | UPS | HD | Greyhound

Date/Time of Receipt: 11/08/2018 / 10:00

| Cooler Temperature* | * All Samples in Cooler Preserved with |          | Number of Sample Containers in Cooler | Evidence Tape |    |          |    | Tracking # (fill out only if waybill copy is damaged) |
|---------------------|----------------------------------------|----------|---------------------------------------|---------------|----|----------|----|-------------------------------------------------------|
|                     |                                        |          |                                       | Present?      |    | *Intact? |    |                                                       |
|                     | HNO <sub>3</sub>                       | Formalin |                                       | Yes           | No | Yes      | No |                                                       |
| 1.3C                |                                        |          | 14                                    |               | X  |          |    |                                                       |
| 1.8C                |                                        |          | 8                                     |               | X  |          |    |                                                       |
|                     |                                        |          |                                       |               |    |          |    |                                                       |
|                     |                                        |          |                                       |               |    |          |    |                                                       |
|                     |                                        |          |                                       |               |    |          |    |                                                       |
|                     |                                        |          |                                       |               |    |          |    |                                                       |

\* HNO<sub>3</sub> and Formalin preserved samples do **NOT** have a temperature requirement. For all others, 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 X No       

Micro-Biology Overflow Chain of Custody/ Field Sheet(s) Included? Yes        No        Date 11-8-18

## 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 REQUIRED? (Blue dot on container) Yes        No        Init: ABS

| 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-E8321-DI, -MS, -21                                                                                 |     | <u>      </u> | W-NP-AA-SF |     |    |
| W-BNA (-625, -R)                                                                                     |     |               | W-PDQUAT   |     |    |
| W-CARB-AA (-CAB-AA-R)                                                                                |     |               | W-PCL-SQ-R |     |    |
| W-U2060-MS                                                                                           |     |               | W-TR-TQ    |     |    |
| W-PCB-R                                                                                              |     |               | W-CT-CI-R  |     |    |
| W-PAH (-R)                                                                                           |     |               | W-PSNP-TQ  |     |    |

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

\*\*Acid Preserved Samples: pH ≤ 2.0? Yes X No        NA        Init: ABS

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

Coolers Unpacked/Checked by: ABS Date: 11/08/2018 NCRs (Y/N)?       

Event ID: Laurel Hill East  
NW-DIST-2018-11-08-01 (SMP) NCR #

## 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 |
|----------|-------------------|--------------|
|          |                   |              |
|          |                   |              |
|          |                   |              |
|          |                   |              |

### Additional Comments:

|                            |                       |
|----------------------------|-----------------------|
| Infrared Thermometer ID:   | REC_03_2018           |
| pH Paper 0.0 – 3.0 Lot #   |                       |
| pH Paper 0 – 13 Lot #      | 215517 EXP:06/01/2020 |
| Chlorine Test Strips Lot # | 7226 EXP:2020/07      |

### ENCORE SAMPLES

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

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

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

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

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: \_\_\_\_\_

Laurel Hill East

## Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: NW-DIST

Requester: Michael King

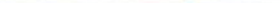
Field Report Prepared By:

Project ID: SMP

Collected By:

Sampling Agency:

| Location  | Field/WIN ID | Collection (comp begin or grab)       | Date                            | Time             | Eastern<br>Central             | Composite end<br>Date | Time                  | Bottle Group(s)<br>(See pg 2) |                 |
|-----------|--------------|---------------------------------------|---------------------------------|------------------|--------------------------------|-----------------------|-----------------------|-------------------------------|-----------------|
| GUM CREEK | G4NW0382     | Grab                                  | 11/7/18                         | 0910             | Central                        |                       |                       | A                             |                 |
|           |              | Matrix (type, e.g., Salt, Fresh, etc) | Diss. Oxygen                    | % mg/L           | Total Res. Chlorine (mg/L)     |                       |                       |                               |                 |
|           |              | Temp (C) 20.7                         | pH 4.61                         | Sample Depth 0.3 | Sp. Conductance (umho/cm) 26.7 |                       |                       |                               |                 |
|           |              | Salinity (ppt)                        | Comments                        |                  |                                |                       |                       |                               |                 |
|           |              | dd                                    | dms                             |                  |                                |                       |                       |                               |                 |
|           |              | Comp                                  | Collection (comp begin or grab) | Date             | Time                           | Eastern<br>Central    | Composite end<br>Date | Time                          | Bottle Group(s) |
|           | G4NW0375     | Grab                                  | 11/7/18                         | 1000             | Central                        |                       |                       |                               | B               |
|           |              | Matrix (type, e.g., Salt, Fresh, etc) | Diss. Oxygen                    | % mg/L           | Total Res. Chlorine (mg/L)     |                       |                       |                               |                 |
|           |              | Temp (C) 20.7                         | pH 5.04                         | Sample Depth 0.3 | Sp. Conductance (umho/cm) 29.9 |                       |                       |                               |                 |
|           |              | Salinity (ppt)                        | Comments                        |                  |                                |                       |                       |                               |                 |
|           |              | dd                                    | dms                             |                  |                                |                       |                       |                               |                 |
|           |              | Comp                                  | Collection (comp begin or grab) | Date             | Time                           | Eastern<br>Central    | Composite end<br>Date | Time                          | Bottle Group(s) |
|           | G4NW0315     | Grab                                  | 11/7/18                         | 1035             | Central                        |                       |                       |                               | A               |
|           |              | Matrix (type, e.g., Salt, Fresh, etc) | Diss. Oxygen                    | % mg/L           | Total Res. Chlorine (mg/L)     |                       |                       |                               |                 |
|           |              | Temp (C) 20.4                         | pH 5.03                         | Sample Depth 0.2 | Sp. Conductance (umho/cm) 27.8 |                       |                       |                               |                 |
|           |              | Salinity (ppt)                        | Comments                        |                  |                                |                       |                       |                               |                 |
|           |              | dd                                    | dms                             |                  |                                |                       |                       |                               |                 |
|           |              | Comp                                  | Collection (comp begin or grab) | Date             | Time                           | Eastern<br>Central    | Composite end<br>Date | Time                          | Bottle Group(s) |
|           | G4NW0298     | Grab                                  | 11/7/18                         | 115              | Central                        |                       |                       |                               | A               |
|           |              | Matrix (type, e.g., Salt, Fresh, etc) | Diss. Oxygen                    | % mg/L           | Total Res. Chlorine (mg/L)     |                       |                       |                               |                 |
|           |              | Temp (C) 20.1                         | pH 5.25                         | Sample Depth 0.1 | Sp. Conductance (umho/cm) 24.0 |                       |                       |                               |                 |
|           |              | Salinity (ppt)                        | Comments                        |                  |                                |                       |                       |                               |                 |
|           |              | dd                                    | dms                             |                  |                                |                       |                       |                               |                 |

|                                                                                                        |                      |                           |                                 |                                                                                                       |                            |
|--------------------------------------------------------------------------------------------------------|----------------------|---------------------------|---------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------|
| Relinquished By:<br> | Date/Time<br>11/7/18 | Shipping Method<br>Fed Ex | Number of Coolers Shipped:<br>2 | Received By:<br> | Date/Time<br>11-8-18/11:00 |
|--------------------------------------------------------------------------------------------------------|----------------------|---------------------------|---------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------|

|          |              |                    |                 |               |               |                                     |   |
|----------|--------------|--------------------|-----------------|---------------|---------------|-------------------------------------|---|
| Group: A | Bottle Type: | P-1L               | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 3 |
|          | ALKALINITY   |                    |                 |               |               |                                     |   |
|          | TURBIDITY    |                    |                 |               |               |                                     |   |
|          | W-CL-IC      |                    |                 |               |               |                                     |   |
|          | W-COLOR      |                    |                 |               |               |                                     |   |
|          | W-F          |                    |                 |               |               |                                     |   |
|          | W-SO4-IC     |                    |                 |               |               |                                     |   |
|          | W-TDS        |                    |                 |               |               |                                     |   |
|          | W-TSS        |                    |                 |               |               |                                     |   |
| Group: A | Bottle Type: | BP-1L              | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 3 |
|          | CHLSUITE-W   |                    |                 |               |               |                                     |   |
| Group: A | Bottle Type: | TEST HAS NO BOTTLE | # of Bottles: 2 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 3 |
|          | NW-UWF-ECQ   |                    |                 |               |               |                                     |   |
| Group: A | Bottle Type: | P-500ML            | # of Bottles: 2 | Preservative: | ICE And H2SO4 | Enter Number of Bottles Sent to Lab | 3 |
|          | 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 | 3 |
|          | W-PO4-F      |                    |                 |               |               |                                     |   |
| Group: B | Bottle Type: | P-1L               | # of Bottles: 1 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 1 |
|          | ALKALINITY   |                    |                 |               |               |                                     |   |
|          | TURBIDITY    |                    |                 |               |               |                                     |   |
|          | W-CL-IC      |                    |                 |               |               |                                     |   |
|          | W-COLOR      |                    |                 |               |               |                                     |   |
|          | W-F          |                    |                 |               |               |                                     |   |
|          | W-SO4-IC     |                    |                 |               |               |                                     |   |
|          | W-TDS        |                    |                 |               |               |                                     |   |
|          | W-TSS        |                    |                 |               |               |                                     |   |
| Group: B | Bottle Type: | BP-1L              | # of Bottles: 1 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 1 |
|          | CHLSUITE-W   |                    |                 |               |               |                                     |   |
| Group: B | Bottle Type: | TEST HAS NO BOTTLE | # of Bottles: 1 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 1 |

|          |                                 |                 |                             |                                     |
|----------|---------------------------------|-----------------|-----------------------------|-------------------------------------|
| Group: B | Bottle Type: TEST HAS NO BOTTLE | # of Bottles: 1 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
|          | NW-UWF-ECQ                      |                 |                             | 1                                   |
| Group: B | Bottle Type: QPCR-P-500ML       | # of Bottles: 1 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
|          | PCR-FILTER                      |                 |                             | 1                                   |
| Group: B | Bottle Type: BG-500ML           | # of Bottles: 1 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
|          | W-E8321-DI                      |                 |                             | 1                                   |
|          | W-E8321-MS                      |                 |                             |                                     |
| Group: B | Bottle Type: P-500ML            | # of Bottles: 1 | Preservative: ICE And H2SO4 | Enter Number of Bottles Sent to Lab |
|          | W-NH3                           |                 |                             | 1                                   |
|          | W-NO2NO3                        |                 |                             |                                     |
|          | W-S-A-TP                        |                 |                             |                                     |
|          | W-TKN                           |                 |                             |                                     |
|          | W-TOC                           |                 |                             |                                     |
| Group: B | Bottle Type: P-125ML            | # of Bottles: 1 | Preservative: FILTER-ICE    | Enter Number of Bottles Sent to Lab |
|          | W-PO4-F                         |                 |                             | 1                                   |

WBID 275 179 27 271 28

## Central Laboratory Submittal Form

last revised Nov 10, 2015

Customer: NW-DIST

Requester: Michael King

Field Report Prepared By:

Project ID: SMP

Collected By:

Sampling Agency:

|          |                                                             |                                                                |                                                             |                                                                           |                                                                 |                               |                                                                      |                                  |  |
|----------|-------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------|----------------------------------------------------------------------|----------------------------------|--|
| Location |                                                             | <input type="checkbox"/> Comp<br><input type="checkbox"/> Grab | Collection (comp begin or grab)<br>Date Time                |                                                                           | Eastern<br>Central                                              | Composite end<br>Date Time    |                                                                      | Bottle<br>Group(s)<br>(See pg 2) |  |
| 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<br>(C)                                                    | pH                                                          | Sample<br>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<br>(ppt)                                                         | Comments                                                        |                               |                                                                      |                                  |  |
| Location | Field/WIN ID                                                |                                                                |                                                             | <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab | Collection (comp begin or grab)<br>Date Time                    | Eastern<br>Central            | Composite end<br>Date Time                                           | Bottle<br>Group(s)               |  |
| Field ID | Location:                                                   |                                                                |                                                             | 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 # | Panther Creek above Sherman Kennedy Road                    |                                                                |                                                             | Temp<br>(C)                                                               | pH                                                              | Sample<br>Depth               | <input type="checkbox"/> ft<br><input checked="" 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<br>(ppt)                                                         | Comments                                                        |                               |                                                                      |                                  |  |
| Location |                                                             | <input type="checkbox"/> Comp<br><input type="checkbox"/> Grab | Collection (comp begin or grab)<br>Date Time                |                                                                           | Eastern<br>Central                                              | Composite end<br>Date Time    |                                                                      | Bottle<br>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<br>(C)                                                    | pH                                                          | Sample<br>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<br>(ppt)                                                         | Comments                                                        |                               |                                                                      |                                  |  |
| Location |                                                             | <input type="checkbox"/> Comp<br><input type="checkbox"/> Grab | Collection (comp begin or grab)<br>Date Time                |                                                                           | Eastern<br>Central                                              | Composite end<br>Date Time    |                                                                      | Bottle<br>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<br>(C)                                                    | pH                                                          | Sample<br>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<br>(ppt)                                                         | Comments                                                        |                               |                                                                      |                                  |  |

|                    |           |                 |                    |           |                  |           |              |           |
|--------------------|-----------|-----------------|--------------------|-----------|------------------|-----------|--------------|-----------|
| Relinquished By:   | Date/Time | Shipping Method | Received By:       | Date/Time | Relinquished By: | Date/Time | Received By: | Date/Time |
| <i>[Signature]</i> | 11/7/18   | Fed Ex          | <i>[Signature]</i> | 11-8-18   |                  |           |              |           |

10.00

|          |              |         |                  |               |               |                                     |
|----------|--------------|---------|------------------|---------------|---------------|-------------------------------------|
| Group: A | Bottle Type: | P-1L    | # of Bottles: 10 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
|          | ALKALINITY   |         |                  |               |               |                                     |
|          | TURBIDITY    |         |                  |               |               |                                     |
|          | W-CL-IC      |         |                  |               |               |                                     |
|          | W-COLOR      |         |                  |               |               |                                     |
|          | W-F          |         |                  |               |               |                                     |
|          | W-SO4-IC     |         |                  |               |               |                                     |
|          | W-TDS        |         |                  |               |               |                                     |
|          | W-TSS        |         |                  |               |               |                                     |
| Group: A | Bottle Type: | P-1L    | # of Bottles: 10 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
|          | BOD-UNIN     |         |                  |               |               |                                     |
| Group: A | Bottle Type: | BP-1L   | # of Bottles: 10 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab |
|          | CHLSUITE-W   |         |                  |               |               |                                     |
| Group: A | Bottle Type: | P-500ML | # of Bottles: 10 | Preservative: | ICE And H2SO4 | Enter Number of Bottles Sent to Lab |
|          | W-NH3        |         |                  |               |               |                                     |
|          | W-NO2NO3     |         |                  |               |               |                                     |
|          | W-S-A-TP     |         |                  |               |               |                                     |
|          | W-TKN        |         |                  |               |               |                                     |
|          | W-TOC        |         |                  |               |               |                                     |
| Group: A | Bottle Type: | P-125ML | # of Bottles: 10 | Preservative: | ICE-FLTR      | Enter Number of Bottles Sent to Lab |
|          | W-PO4-F      |         |                  |               |               |                                     |

## Document Reference # 05.1.0

**FDEP**

Laboratory: Wetlands Research Laboratory

Sampler's initials: NM/WB

**Drop off**

on ice by automobile

**FDEP**

of WRL

Page 1 of 1

Date/Time: 11/7/18 13:16

Date/Time: 11/3/88 11316

Instructions: Fill in all fields, except "Lab ID" on sample transport form completely. Each sample container must use a separate line. Place this form in a waterproof bag and place it with the samples for transport. If a field log or other chain of custody is attached, that information may be referenced on this form and the log or COC attached.

[illegible]

Comments sample container lot# #18145

**RQ-2018-11-05-29**

FDEP NWROC

Contact name

**Phone: (850) 595-8300**

**Address** 160 W Governmental Street, suite 208, Pensacola, FL 32502

Sampler's name: Nathan Muller

<sup>1</sup>Matrix: SW = surface water, PW = pore water, GW = ground water, S = soil/sediment, X =

<sup>2</sup>Type codes: G = grab, C = composite, X = \_\_\_\_\_

<sup>3</sup> Recorded using IRT-2

Date of Request: 18-OCT-2018  
 Created By: KING\_M On: 18-OCT-2018  
 Modified By: WATTS\_J On: 22-OCT-2018  
 Customer: NW-DIST  
 Project: SMP  
 Division: Division of Environmental Assessment and Restoration  
 District: Northwest District  
 Sampling Event: Laurel Hill East

**Send Coolers To:**

Phone: SC-695-0605  
 160 W Government St  
 Suite 208A  
 Pensacola, FL 32502-5794  
 Attn: Michael King

Program Module Number: 1306  
 Priority: 3  
 Event Status: R  
 Criminal Investigation: NO  
 Chemistry Request Reviewed By: WATTS\_J On: 22-OCT-2018  
 Biology Request Reviewed By: SWANSON\_C On: 19-OCT-2018  
 Sampling Kit Required: YES Ship on: 26-OCT-2018  
 Sampling Kit Shipped: YES On: 25-OCT-2018  
 Sampling Kit Packed By: REAVES\_S  
 Preservatives Needed: NO  
 Date to Receive Samples: 07-NOV-2018  
 Received By: SHAIK\_A On: 08-NOV-2018

**Send Final Report To:**

160 W Government St  
 Suite 208A  
 Pensacola, FL 32502-5794  
 Attn: Michael King

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

Comments: Group A: (WBID 167A, 101) Freshwater Kit, Contract Lab Bacteria

Group B: (WBID 160) Freshwater Kit, Contract Lab Bacteria, Tracers, Markers

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

|                       |                      |                                                                                                      |
|-----------------------|----------------------|------------------------------------------------------------------------------------------------------|
| Bottle Type: P-1L     | Number of Bottles: 2 | 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-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-SO <sub>4</sub> -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 using a maximum of 250 mL of sample        |

|                          |                      |                                                                                                              |
|--------------------------|----------------------|--------------------------------------------------------------------------------------------------------------|
| Bottle Type: BP-1L       | Number of Bottles: 2 | Preserved With: ICE                                                                                          |
| CHLSUITE-W               | Template: DEFAULT    | (SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry |
| Bottle Type: TEST HAS NO | Number of Bottles: 2 | Preserved With: ICE                                                                                          |
| NW-UWF-ECQ               | Template: DEFAULT    | (SM 9223 B Quanti-Tray) Escherichia coli by Colilert 18 Quanti-Tray method by UWF Laboratory in Pensacola    |

|                                   |                      |                                                                     |
|-----------------------------------|----------------------|---------------------------------------------------------------------|
| Bottle Type: P-500ML              | Number of Bottles: 2 | 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 |
| 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: P-125ML | Number of Bottles: 2 | Preserved With: FILTER-ICE                                                               |
| W-PO <sub>4</sub> -F | Template: DEFAULT    | (EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L |

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

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

|                           |                   |                         |                                                                                          |
|---------------------------|-------------------|-------------------------|------------------------------------------------------------------------------------------|
| Bottle Type: BG-500ML     |                   | Number of Bottles: 1    | Preserved With: ICE                                                                      |
| W-E8321-DI                | Template:         | (EPA 8321B)             | Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS              |
| W-E8321-MS                | Template: DEFAULT | (EPA 8321B)             | Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS              |
| Bottle Type: P-500ML      |                   | Number of Bottles: 1    | Preserved With: ICE And H2SO4                                                            |
| W-NH3                     | Template: DEFAULT | (EPA 350.1 Rev. 2.0)    | Ammonia in aqueous matrices as mg N/L                                                    |
| W-NO2NO3                  | 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                                           |
| 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: P-125ML      |                   | Number of Bottles: 1    | Preserved With: FILTER-ICE                                                               |
| W-PO4-F                   | Template: DEFAULT | (EPA 365.1 Rev. 2.0)    | Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L                      |
| Bottle Type: P-1L         |                   | Number of Bottles: 1    | Preserved With: ICE                                                                      |
| ALKALINITY                | Template: DEFAULT | (SM 2320 B-97)          | Alkalinity in aqueous matrices as mg CaCO3/L                                             |
| TURBIDITY                 | Template: DEFAULT | (EPA 180.1 Rev. 2.0)    | Turbidity 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 using a maximum of 250 mL of sample           |
| Bottle Type: BP-1L        |                   | Number of Bottles: 1    | Preserved With: ICE                                                                      |
| CHLSUITE-W                | Template: DEFAULT | (SM 10200 H (mod.))     | Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry |
| Bottle Type: TEST HAS NO  |                   | Number of Bottles: 1    | Preserved With: ICE                                                                      |
| NW-UWF-ECQ                | Template: DEFAULT | (SM 9223 B Quanti-Tray) | Escherichia coli by Colilert 18 Quanti-Tray method by UWF Laboratory in Pensacola        |
| Bottle Type: QPCR-P-500ML |                   | Number of Bottles: 1    | Preserved With: ICE                                                                      |
| PCR-FILTER                | Template: DEFAULT | (SOP-PCR-4.0)           | Preparation of Samples by Filtration and held for qPCR Analysis                          |

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

Cooler Packing Worksheet for Request: RQ-2018-11-05-29

Laurel Hill East

Ship Cooler On: 10/26/2018

Customer/Project: NW-DIST/SMP

Assigned To: REAVES\_S

Requester: Michael King

Priority: 3

SC-695-0605  
160 W Government St  
Suite 208A  
Pensacola, FL 32502-5794  
  
Attn: Michael King

Comments:

No preservatives needed.

Group A: (WBID 167A, 101) Freshwater Kit, Contract Lab Bacteria

Group B: (WBID 160) Freshwater Kit, Contract Lab Bacteria, Tracers, Markers

**Requested Analyses:**

**Bottle Group: A**

**# of Sites: 2**

Container ID: P-1L

Qty: 2    Preservation: ICE

Lot # 00072522

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 CaCO<sub>3</sub>/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 using a maximum of 250 mL of sample

Container ID: BP-1L

Qty: 2    Preservation: ICE

Lot # 1219444

Description: Brown Plastic Bottle 1L

**Analysis**

CHLSUITE-W

**Description**

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

Container ID: TEST HAS NO BOTTLE Qty: 2 Preservation: ICE

Lot #

N/A

Description: Do not ship container for this test.

**Analysis**

NW-UWF-ECQ

**Description**

Escherichia coli by Colilert 18 Quanti-Tray method by UWF Laboratory in Pensacola

Container ID: P-500ML

Qty: 2 Preservation: ICE And H2SO4

Lot #

00071864

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: FILTER-ICE

Lot #

00066437

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: 1**

Container ID: P-1L

Qty: 1 Preservation: ICE

Lot #

00072522

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 using a maximum of 250 mL of sample

Container ID: BP-1L

Qty: 1 Preservation: ICE

Lot # 1219444

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: TEST HAS NO BOTTLE Qty: 1 Preservation: ICE

Lot # N/A

Description: Do not ship container for this test.

Analysis

NW-UWF-ECQ

Description

Escherichia coli by Colilert 18 Quanti-Tray method by UWF Laboratory in Pensacola

Container ID: QPCR-P-500ML

Qty: 1 Preservation: ICE

Lot # 00071457

Description: 500ml Sterile Nalgene

Affix PCR Instruction Label to container

Analysis

PCR-FILTER

Description

Preparation of Samples by Filtration and held for qPCR Analysis

Container ID: BG-500ML

Qty: 1 Preservation: ICE

Lot # 00071432

Description: Brown Glass Bottle 500ML

Affix BLUE dot to container.

Analysis

W-E8321-DI

W-E8321-MS

Description

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Container ID: P-500ML

Qty: 1 Preservation: ICE And H2SO4

Lot # 00071864

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: 1 Preservation: FILTER-ICE

Lot # 00066437

Description: Plastic Bottle 125 mL

**Analysis**

W-PO4-F

**Description**

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

Cooler Packed By: SK

Number of Coolers: 1

Date: 10.24

25.18

**Kit must also include:**

- ☒ Field Sheets
- ☒ Temperature Control Bottle
- ☒ FedEx Bills, if applicable
- ☒ Plastic Bags/Zip Ties
- ☐ Acid Labels (sets of 24)

**If Preservation Included:**

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

**PLEASE RETURN ALL COOLERS FOR RQ-2018-11-05-29**

180

FID 664600 07NOV18 PMSA - 55361/38E7/00GBA

F10 664500 07NOV18 PMSA 553C1/38E7/0C8A

551C1/03FTV/104C