

# Login Checklist

RQ- 2023-05-15-40

Login Station ID: 5

Shipping Method: FedEx | UPS | HD | Greyhound

Date/Time of Receipt: 5/18 / 23 @ 9:10

| *Cooler Temperature | Samples Frozen? | * All Samples in Cooler Preserved with |          | Number of Sample Containers in Cooler | Evidence Tape |    |          |    | Waybill Tracking # |
|---------------------|-----------------|----------------------------------------|----------|---------------------------------------|---------------|----|----------|----|--------------------|
|                     |                 |                                        |          |                                       | Present?      |    | *Intact? |    |                    |
|                     | YES             | HNO <sub>3</sub>                       | Formalin |                                       | Yes           | No | Yes      | No |                    |
| 1-4                 |                 |                                        |          | 12                                    |               | X  |          |    | 863947337051       |
| 1-1                 |                 |                                        |          | 10                                    |               | X  |          |    | 863947337067       |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |

## COOLER CHECK

\*All samples received on ice unless otherwise noted. HNO<sub>3</sub> and Formalin preserved samples do NOT have a temperature requirement.

- If the temperature of a cooler exceeds 6.0 oC (above 10.0 oC for W-1-4-DIOX and microbiology) or received without ice, identify affected samples in an NCR. NCR# \_\_\_\_\_
- DOH coolers can exceed 2.0 °C above the standard temperature (6.0 or 10.0 °C for W-1-4-DIOX) without login confirmation from customer for samples requiring ice preservation; identify affected samples in an NCR. NCR# \_\_\_\_\_
- If cooler or samples are received with a damaged Evidence Seal; identify the affected samples in an NCR. NCR# \_\_\_\_\_
- If coolers or samples are received late; identify the affected samples in an NCR. NCR# \_\_\_\_\_

Chain of Custody/ Field Sheet(s) Included? Yes X No \_\_\_\_\_

Micro-Biology Overflow Chain of Custody/ Field Sheet(s) Included? Yes X No \_\_\_\_\_

## CONTAINER CHECK

Evidence Tape on Bottles? Yes \_\_\_\_\_ No \_\_\_\_\_ NA X Evidence Tape intact? Yes \_\_\_\_\_ No \_\_\_\_\_

If Criminal, photographs taken? Yes \_\_\_\_\_ No X Containers intact? Yes X No \_\_\_\_\_

Caps on tight? Yes X No \_\_\_\_\_

Sufficient Sample Volume: Yes X No \_\_\_\_\_

If **NO** is checked above, generate an NCR listing affected sample IDs in its appropriate category. NCR# \_\_\_\_\_

**CHLORINE CHECK REQUIRED?** (Blue dot on container) Yes X No \_\_\_\_\_ Init: C-9

Chlorine detected? (One container checked per Field ID) Yes \_\_\_\_\_ No X Init: C-9

If chlorine is detected, generate an NCR listing affected sample IDs . NCR# \_\_\_\_\_

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

\*\*Acid Preserved Samples: pH < 2.0? Yes X No \_\_\_\_\_ NA \_\_\_\_\_ Init: C-9

\*\*W-1-4-DIOX (Green dot on container) preserved to pH < 4.0? Yes \_\_\_\_\_ No \_\_\_\_\_ NA X Init: C-9

If samples were not preserved correctly, generate an NCR listing affected sample IDs . NCR# \_\_\_\_\_

Coolers Unpacked/Checked by: C-9 Date: 5/ 18 /23 Event contains NCRs(Y/N)? N

EventID: NW-DIST-2023-05-18-02 (SMP)  
Date Received: 18-MAY-2023 09:10

## Login Checklist

Login Preservation Equipment

Lot # & Exp: Date

Additional Comments:

|                          |                     |
|--------------------------|---------------------|
| Infrared Thermometer ID: | 221426058 10/17/23  |
| pH Test Strips 0 – 6     | 207621 03/15/2024   |
| pH Paper 0 – 3           | NA                  |
| pH Paper 0 – 13          | 20762103 03/15/2024 |
| Chlorine Test Strips     | 1196 02/2024        |

### ENCORE SAMPLES

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

Were Encore samples received?      Yes \_\_\_\_\_      Init: \_\_\_\_\_

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 \_\_\_\_\_

**If S-VOC-MS samples were not preserved correctly, generate an NCR listing affected sample IDs . NCR# \_\_\_\_\_**

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
CHAIN OF CUSTODY FORM

**Date:** 5/17/2023      **Collected By:** Nathan Mulkey, Myranda Butler  
**Customer:** NW-DIST      **Sampling Agency:** FDEP  
**RQ:** RQ-2023-05-15-40      **Project ID:** SMP

PLEASE RETURN THE ORIGINAL OF THIS FORM WITH SAMPLE SUBMITTAL  
FORMS AND THE COOLER PACKING WORKSHEET TO THE LAB

**Number of Coolers Shipped:** 2

**Delivery Method:** FedEx

**FIELD ID (Labels) submitted under this RQ for this collection date.**

| Site Location                              | Field ID/WIN ID                                                                                  |
|--------------------------------------------|--------------------------------------------------------------------------------------------------|
| MCDavid CREEK 100 M UPSTREAM SR99          | <br>G5NW0150   |
| BRUSHY CREEK UPSTREAM OF ARTHUR BROWN RD   | <br>G5NW0002  |
| WIGGINS BRANCH BELOW HIGHWAY 29            | <br>G4NW0163 |
| LITTLE PINE BARREN CREEK ABOVE CR99        | <br>G4NW0420 |
| BIG ESCAMBIA CREEK DOWNSTREAM OF FANNIE RD | <br>G4NW0421 |

RELINQUISHED BY(SIGNATURE):



DATE/TIME: 5/17/2023  
1600 CEN

**THIS SECTION TO BE COMPLETED BY LABORATORY**

Rec'd/Inspected By: 

Rec'd/Inspected

Date: 5-18-23

|                                                                                                                                 |           |                                                                              |               |                                                                    |                  |              |                 |                                                                             |                |                       |              |           |
|---------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------|---------------|--------------------------------------------------------------------|------------------|--------------|-----------------|-----------------------------------------------------------------------------|----------------|-----------------------|--------------|-----------|
|                                                |           |                                                                              |               | RQ-2023-05-15-40                                                   |                  |              |                 | Collected By: Nathan Mulkey, Myranda Butler                                 |                |                       |              |           |
|                                                                                                                                 |           |                                                                              |               | Customer: FDEP                                                     |                  |              |                 | Field Report Prepared by: Nathan Mulkey, Myranda Butler                     |                |                       |              |           |
|                                                                                                                                 |           |                                                                              |               | Project ID: SMP                                                    |                  |              |                 | Sampling Agency: FDEP                                                       |                |                       |              |           |
| WIN ID/Field ID: <br>WIN ID/Field ID: G5NW0150 |           |                                                                              |               | Comments: Microbiology sample(s) submitted to contract laboratory. |                  |              |                 |                                                                             |                |                       |              |           |
| Location: MCDAVID CREEK 100 M UPSTREAM SR99                                                                                     |           |                                                                              |               |                                                                    |                  |              |                 |                                                                             |                |                       |              |           |
| Matrix: Fresh                                                                                                                   |           |                                                                              |               |                                                                    |                  | (Check One)  |                 | <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite |                |                       |              |           |
| Date and Time {CEN}                                                                                                             | DO (mg/L) | DO (%SAT)                                                                    | Temp. °C      | pH                                                                 | Sample Depth (m) | Secchi Depth | Total Depth (m) | Sp COND (µmhos/cm)                                                          | Salinity (PPT) |                       |              |           |
| 5/17/2023 935                                                                                                                   | 7.38      | 83                                                                           | 21            | 5.29                                                               | 0.3              | 0.8          | 0.8             | 21.5                                                                        | 0.01           |                       |              |           |
| Parameter Suite                                                                                                                 |           | Parameter Methods                                                            |               |                                                                    |                  | Preservation |                 | pH Check                                                                    |                | # Bottles sent to Lab | Bottle Group |           |
| Preserved Nutrients (P-500ML)                                                                                                   |           | W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                  |               |                                                                    |                  | Ice          |                 | H2SO4*                                                                      |                | <2                    |              |           |
|                                                                                                                                 |           | Lot #                                                                        |               | Exp:                                                               |                  |              |                 |                                                                             |                |                       |              |           |
| Metals (P-500ML)                                                                                                                |           | W-ICPMS                                                                      |               | W-ICP                                                              |                  | W-HARD       |                 | HNO3*                                                                       |                | <2                    |              |           |
|                                                                                                                                 |           | Lot #                                                                        |               | Exp:                                                               |                  |              |                 |                                                                             |                |                       |              |           |
| Filtered Nutrients (P125ML)                                                                                                     |           | W-PO4-F                                                                      |               | Field Filtered 0.45 um Filter                                      |                  | Ice          |                 |                                                                             |                |                       |              |           |
|                                                                                                                                 |           | Filter Lot #                                                                 | Syringe Lot # |                                                                    |                  |              |                 |                                                                             |                |                       |              |           |
| BOD (BP-1L)                                                                                                                     |           | OV-BODUNIN                                                                   |               |                                                                    |                  | Ice          |                 |                                                                             |                |                       |              |           |
| Chlorophyll (BP-1L)                                                                                                             |           | CHLSUITE-W                                                                   |               |                                                                    |                  | Ice          |                 |                                                                             |                |                       |              |           |
| Physical/Aggregate (Fresh) (P-1L)                                                                                               |           | Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W- TDS |               |                                                                    |                  | Ice          |                 |                                                                             |                |                       |              |           |
| Physical/Aggregate (Marine) (P-1L)                                                                                              |           | Alkalinity / W-F / W-TSS / TURBIDITY                                         |               |                                                                    |                  | Ice          |                 |                                                                             |                |                       |              |           |
| Macroinvertebrates (PJ-2L)                                                                                                      |           | MI-FW-QLDC                                                                   |               | Formalin Lot #                                                     |                  | Formalin     |                 |                                                                             |                |                       |              |           |
| Periphyton (PT-50ML)                                                                                                            |           | ALGAE-ID                                                                     |               |                                                                    |                  | Ice          |                 |                                                                             |                |                       |              |           |
| Microbiology (Contract Lab Bottle)                                                                                              |           | X                                                                            | E Coli        |                                                                    | F Coli           |              | Enterococci     |                                                                             | x              | Ice                   | 1            | D         |
|                                                                                                                                 |           | X                                                                            | Contract Lab  |                                                                    |                  |              |                 |                                                                             |                |                       |              |           |
| Molecular (QPCR-P-500ML)                                                                                                        |           | PCR-HF183                                                                    |               | PCR-BacR                                                           |                  | PCR-DG3      |                 |                                                                             |                |                       |              |           |
|                                                                                                                                 |           | PCR-GULL2                                                                    |               | PCR-GFD                                                            |                  |              |                 |                                                                             |                |                       |              |           |
| Tracers (BG-500ML)                                                                                                              |           | W-E8321-DI                                                                   |               | W-E8321-MS                                                         |                  | Ice          |                 |                                                                             |                |                       |              |           |
| Pesticides (BG-500ML) (BG-1L)                                                                                                   |           | W-E8321-DI                                                                   |               | W-E8321-MS                                                         |                  | W-P5NP-TQ    |                 |                                                                             |                | Ice                   | MCAA Exp.    | MCAA Lot# |
|                                                                                                                                 |           | W-PCL-TQ-R                                                                   |               | W-CARB-AA (5 ml of MCAA Buffer Solution)                           |                  | W-CT-CL-R    |                 |                                                                             |                |                       |              |           |
|                                                                                                                                 |           | W-TR-SQ-R                                                                    |               | W-PCB-TQ-R                                                         |                  |              |                 |                                                                             |                |                       |              |           |
| Phytoplankton                                                                                                                   |           | DTY-QN-C                                                                     |               | PKD-QN-BV                                                          |                  | Ice          |                 |                                                                             |                |                       |              |           |
| DOC                                                                                                                             |           | W-DOC                                                                        |               | Field Filtered 0.45 um Filter                                      |                  | Ice          |                 | H2SO4*                                                                      |                | <2                    |              |           |
|                                                                                                                                 |           |                                                                              |               | Acid Preservative Expiration Date                                  |                  |              |                 |                                                                             |                |                       |              |           |
|                                                                                                                                 |           |                                                                              |               | Acid Preservative Lot Number                                       |                  |              |                 |                                                                             |                |                       |              |           |



RQ-2023-05-15-40

Customer: FDEP

Project ID: SMP

Collected By: Nathan Mulkey, Myranda Butler

Field Report Prepared by: Nathan Mulkey,  
Myranda Butler

Sampling Agency: FDEP

WIN ID/Field ID:



WIN ID/Field ID: G5NW0002

Comments: Microbiology sample(s) submitted to contract laboratory.

Location: BRUSHY CREEK UPSTREAM OF ARTHUR BROWN RD

Matrix: Fresh

(Check One)

☒ Grab☐ Composite

| Date and Time {CEN} | DO (mg/L) | DO (%SAT) | Temp. °C | pH   | Sample Depth (m) | Secchi Depth | Total Depth (m) | Sp COND (µmhos/cm) | Salinity (PPTH) |
|---------------------|-----------|-----------|----------|------|------------------|--------------|-----------------|--------------------|-----------------|
| 5/17/2023 1005      | 8         | 90.8      | 21.3     | 5.97 | 0.3              | 0.5          | 0.5             | 36.3               | 0.02            |

| Parameter Suite                    | Parameter Methods                                                           |                |                                          |        | Preservation                  | pH Check    | # Bottles sent to Lab | Bottle Group |           |           |
|------------------------------------|-----------------------------------------------------------------------------|----------------|------------------------------------------|--------|-------------------------------|-------------|-----------------------|--------------|-----------|-----------|
| Preserved Nutrients (P-500ML)      | W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                 |                |                                          |        | Ice                           | H2SO4*      |                       | <2           |           |           |
|                                    | Lot #                                                                       |                | Exp:                                     |        |                               |             |                       |              |           |           |
| Metals (P-500ML)                   | X                                                                           | W-ICPMS        | X                                        | W-ICP  | X                             | W-HARD      | X                     | Ice          | X         | HNO3*     |
|                                    | Lot #                                                                       |                | NA2126030                                |        | Exp:                          |             | 6/2/23                |              | X         | <2        |
| Filtered Nutrients (P125ML)        | W-PO4-F                                                                     |                |                                          |        | Field Filtered 0.45 µm Filter |             |                       |              |           |           |
|                                    | Filter Lot #                                                                | Syringe Lot #  |                                          |        |                               | Ice         |                       |              |           |           |
| BOD (BP-1L)                        | OV-BODUNIN                                                                  |                |                                          |        | Ice                           |             |                       |              |           |           |
| Chlorophyll (BP-1L)                | CHLSUITE-W                                                                  |                |                                          |        | Ice                           |             |                       |              |           |           |
| Physical/Aggregate (Fresh) (P-1L)  | Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS |                |                                          |        | Ice                           |             |                       |              |           |           |
| Physical/Aggregate (Marine) (P-1L) | Alkalinity / W-F / W-TSS / TURBIDITY                                        |                |                                          |        | Ice                           |             |                       |              |           |           |
| Macroinvertebrates (PJ-2L)         | MI-FW-QLDC                                                                  | Formalin Lot # |                                          |        |                               | Formalin    |                       |              |           |           |
| Periphyton (PT-50ML)               | ALGAE-ID                                                                    |                |                                          |        | Ice                           |             |                       |              |           |           |
| Microbiology (Contract Lab Bottle) | X                                                                           | E Coli         |                                          | F Coli |                               | Enterococci | X                     | Ice          |           |           |
|                                    | X                                                                           | Contract Lab   |                                          |        |                               |             |                       |              | 1         | C         |
| Molecular (QPCR-P-500ML)           | PCR-HF183                                                                   |                | PCR-BacR                                 |        | PCR-DG3                       |             |                       | Ice          |           |           |
|                                    | PCR-GULL2                                                                   |                | PCR-GFD                                  |        |                               |             |                       | Ice          |           |           |
| Tracers (BG-500ML)                 | W-E8321-DI                                                                  |                | W-E8321-MS                               |        |                               |             |                       | Ice          |           |           |
| Pesticides (BG-500ML) (BG-1L)      | W-E8321-DI                                                                  |                | W-E8321-MS                               |        | W-PSNP-TQ                     |             |                       | Ice          | MCAA Exp. | MCAA Lot# |
|                                    | W-PCL-TQ-R                                                                  |                | W-CARB-AA (5 ml of MCAA Buffer Solution) |        | W-CT-CL-R                     |             |                       | Ice          |           |           |
|                                    | W-TR-SQ-R                                                                   |                | W-PCB-TQ-R                               |        |                               |             |                       | Ice          |           |           |
| Phytoplankton                      | DTY-QN-C                                                                    |                | PKD-QN-BV                                |        |                               |             |                       | Ice          |           |           |
| DOC                                | W-DOC                                                                       |                | Field Filtered 0.45 µm Filter            |        |                               |             |                       | Ice          | H2SO4*    |           |
|                                    |                                                                             |                | Acid Preservative Expiration Date        |        |                               |             |                       |              |           | <2        |
|                                    |                                                                             |                | Acid Preservative Lot Number             |        |                               |             |                       |              |           |           |



RQ-2023-05-15-40

Customer: FDEP

Project ID: SMP

Collected By: Nathan Mulkey, Myranda Butler

Field Report Prepared by: Nathan Mulkey,  
Myranda Butler

Sampling Agency: FDEP

WIN ID/Field ID:



WIN ID/Field ID: G4NW0163

Comments: Microbiology sample(s) submitted to contract laboratory.

Location: WIGGINS BRANCH BELOW HIGHWAY 29

Matrix: Fresh

(Check One)

☒ Grab☐ Composite

| Date and Time {CEN} | DO (mg/L) | DO (%SAT) | Temp. °C | pH   | Sample Depth (m) | Secchi Depth | Total Depth (m) | Sp COND (µmhos /cm) | Salinity (PPTH) |
|---------------------|-----------|-----------|----------|------|------------------|--------------|-----------------|---------------------|-----------------|
| 5/17/2023<br>1110   | 3.84      | 43.8      | 21.5     | 5.67 | 0.1              | 0.2          | 0.2             | 34                  | 0.01            |

  

| Parameter Suite                    | Parameter Methods |                                                                            |                                   |                                          | Preservation |             | pH Check |           | # Bottles sent to Lab | Bottle Group |   |
|------------------------------------|-------------------|----------------------------------------------------------------------------|-----------------------------------|------------------------------------------|--------------|-------------|----------|-----------|-----------------------|--------------|---|
| Preserved Nutrients (P-500ML)      | X                 | W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                |                                   |                                          |              | X           | Ice      | X         | H2SO4*                |              |   |
|                                    |                   | Lot #                                                                      | SA3013020                         |                                          | Exp:         | 1/24        |          |           | <2                    | 1            | B |
| Metals (P-500ML)                   | X                 | W-ICPMS                                                                    | X                                 | W-ICP                                    | X            | W-HARD      | X        | Ice       | X                     | HNO3*        |   |
|                                    |                   | Lot #                                                                      | NA2126030                         |                                          | Exp:         | 6/2/23      |          | X         | <2                    | 1            | B |
| Filtered Nutrients (P125ML)        |                   | W-PO4-F                                                                    |                                   | Field Filtered 0.45 um Filter            |              |             |          |           |                       |              |   |
|                                    |                   | Filter Lot #                                                               |                                   | Syringe Lot #                            |              |             | Ice      |           |                       |              |   |
| BOD (BP-1L)                        |                   | OV-BODUNIN                                                                 |                                   |                                          |              |             | Ice      |           |                       |              |   |
| Chlorophyll (BP-1L)                | X                 | CHLSUITE-W                                                                 |                                   |                                          |              | X           | Ice      |           | 1                     | B            |   |
| Physical/Aggregate (Fresh) (P-1L)  | X                 | Alkalinity / W-F / W-TSS / TURBIDITY / W-D-IC / W-COLOR / W-SO4-IC / W-TDS |                                   |                                          |              | X           | Ice      |           | 1                     | B            |   |
| Physical/Aggregate (Marine) (P-1L) |                   | Alkalinity / W-F / W-TSS / TURBIDITY                                       |                                   |                                          |              |             | Ice      |           |                       |              |   |
| Macroinvertebrates (PJ-2L)         |                   | MI-FW-QLDC                                                                 | Formalin Lot #                    |                                          |              |             | Formalin |           |                       |              |   |
| Periphyton (PT-50ML)               |                   | ALGAE-ID                                                                   |                                   |                                          |              |             | Ice      |           |                       |              |   |
| Microbiology (Contract Lab Bottle) | X                 | E Coli                                                                     |                                   | F Coli                                   |              | Enterococci |          |           |                       |              |   |
|                                    | X                 | Contract Lab                                                               |                                   |                                          |              | X           | Ice      |           | 1                     | B            |   |
| Molecular (QPCR-P-500ML)           |                   | PCR-HF183                                                                  |                                   | PCR-BacR                                 |              | PCR-DG3     |          |           |                       |              |   |
|                                    |                   | PCR-GULL2                                                                  |                                   | PCR-GFD                                  |              |             | Ice      |           |                       |              |   |
| Tracers (BG-500ML)                 |                   | W-E8321-DI                                                                 |                                   | W-E8321-MS                               |              |             | Ice      |           |                       |              |   |
| Pesticides (BG-500ML) (BG-1L)      |                   | W-E8321-DI                                                                 |                                   | W-E8321-MS                               |              | W-PSNP-TQ   |          | MCAA Exp. | MCAA Lot#             |              |   |
|                                    |                   | W-PCL-TQ-R                                                                 |                                   | W-CARB-AA (5 ml of MCAA Buffer Solution) |              | W-CT-CL-R   |          |           |                       |              |   |
|                                    |                   | W-TR-SQ-R                                                                  |                                   | W-PCB-TQ-R                               |              |             |          |           |                       |              |   |
| Phytoplankton                      |                   | DTY-QN-C                                                                   |                                   | PKD-QN-BV                                |              |             | Ice      |           |                       |              |   |
| DOC                                |                   | W-DOC                                                                      |                                   | Field Filtered 0.45 um Filter            |              |             | Ice      |           | H2SO4*                |              |   |
|                                    |                   |                                                                            | Acid Preservative Expiration Date |                                          |              |             |          | <2        |                       |              |   |
|                                    |                   |                                                                            | Acid Preservative Lot Number      |                                          |              |             |          |           |                       |              |   |

|                                                                                                                     |                                                                           |
|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| RQ-2023-05-15-40                                                                                                    | <b>Collected By:</b> Nathan Mulkey, Myranda Butler                        |
| <b>Customer:</b> FDEP                                                                                               | <b>Field Report Prepared by:</b> Nathan Mulkey, Myranda Butler            |
| <b>Project ID:</b> SMP                                                                                              | <b>Sampling Agency:</b> FDEP                                              |
| <b>ID:</b> <br><b>ID:</b> G4NW0420 | <b>Comments:</b> Microbiology sample(s) submitted to contract laboratory. |

**Location:** LITTLE PINE BARREN CREEK ABOVE CR99

Matrix: Fresh

(Check One)

✓ Grab

☐ Composite

| Date and Time {CEN}                | DO (mg/L) | DO (%SAT)                                                                    | Temp. °C                          | pH                            | Sample Depth (m)                         | Secchi Depth | Total Depth (m) | Sp COND (µmhos /cm) | Salinity (PPTH) |                       |              |           |   |   |     |   |   |
|------------------------------------|-----------|------------------------------------------------------------------------------|-----------------------------------|-------------------------------|------------------------------------------|--------------|-----------------|---------------------|-----------------|-----------------------|--------------|-----------|---|---|-----|---|---|
| 5/17/2023 1030                     | 6.6       | 75                                                                           | 21.3                              | 5.75                          | 0.15                                     | 0.3          | 0.3             | 46.1                | 0.02            |                       |              |           |   |   |     |   |   |
| Parameter Suite                    |           | Parameter Methods                                                            |                                   |                               |                                          | Preservation |                 | pH Check            |                 | # Bottles sent to Lab | Bottle Group |           |   |   |     |   |   |
| Preserved Nutrients (P-500ML)      | X         | W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                  |                                   |                               |                                          | X            | Ice             | X                   | H2SO4*          | X                     | <2           | 1         | B |   |     |   |   |
|                                    |           | Lot #                                                                        |                                   | SA3013020                     |                                          | Exp:         | 1/25/24         |                     |                 |                       |              |           |   |   |     |   |   |
| Metals (P-500ML)                   | x         | W-ICPMS                                                                      |                                   | X                             | W-ICP                                    |              | X               | Ice                 | X               | HNO3*                 | X            | <2        | 1 | B |     |   |   |
|                                    |           | Lot #                                                                        |                                   | NA2126030                     |                                          | Exp:         | 6/2/23          |                     |                 |                       |              |           |   |   |     |   |   |
| Filtered Nutrients (P125ML)        |           | W-PO4-F                                                                      |                                   | Field Filtered 0.45 um Filter |                                          |              |                 | Ice                 |                 |                       |              |           |   |   |     |   |   |
|                                    |           | Filter Lot #                                                                 |                                   | Syringe Lot #                 |                                          |              |                 |                     |                 |                       |              |           |   |   |     |   |   |
| BOD (BP-1L)                        |           | OV-BODUNIN                                                                   |                                   |                               |                                          |              | Ice             |                     |                 |                       |              |           |   |   |     |   |   |
| Chlorophyll (BP-1L)                | x         | CHLSUITE-W                                                                   |                                   |                               |                                          | x            | Ice             |                     | 1               |                       |              |           |   | B |     |   |   |
| Physical/Aggregate (Fresh) (P-1L)  | X         | Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W- TDS |                                   |                               |                                          | x            | Ice             |                     | 1               |                       |              |           |   | B |     |   |   |
| Physical/Aggregate (Marine) (P-1L) |           | Alkalinity / W-F / W-TSS / TURBIDITY                                         |                                   |                               |                                          |              | Ice             |                     |                 |                       |              |           |   |   |     |   |   |
| Macroinvertebrates (PJ-2L)         |           | MI-FW-QLDC                                                                   |                                   | Formalin Lot #                |                                          |              | Formalin        |                     |                 |                       |              |           |   |   |     |   |   |
| Periphyton (PT-50ML)               |           | ALGAE-ID                                                                     |                                   |                               |                                          |              | Ice             |                     |                 |                       |              |           |   |   |     |   |   |
| Microbiology (Contract Lab Bottle) | X         | E Coli                                                                       |                                   |                               | F Coli                                   |              |                 | Enterococci         |                 |                       |              |           |   | x | Ice | 1 | B |
|                                    | X         | Contract Lab                                                                 |                                   |                               |                                          |              |                 |                     |                 |                       |              |           |   |   |     |   |   |
| Molecular (QPCR-P-500ML)           |           | PCR-HF183                                                                    |                                   |                               | PCR-BacR                                 |              |                 | PCR-DG3             |                 |                       | Ice          |           |   |   |     |   |   |
|                                    |           | PCR-GULL2                                                                    |                                   |                               | PCR-GFD                                  |              |                 |                     |                 |                       |              |           |   |   |     |   |   |
| Tracers (BG-500ML)                 |           | W-E8321-DI                                                                   |                                   |                               | W-E8321-MS                               |              |                 | Ice                 |                 |                       |              |           |   |   |     |   |   |
| Pesticides (BG-500ML) (BG-1L)      |           | W-E8321-DI                                                                   |                                   |                               | W-E8321-MS                               |              |                 | W-P5NP-TQ           |                 | Ice                   | MCAA Exp.    | MCAA Lot# |   |   |     |   |   |
|                                    |           | W-PCL-TQ-R                                                                   |                                   |                               | W-CARB-AA (5 ml of MCAA Buffer Solution) |              |                 | W-CT-CL-R           |                 |                       |              |           |   |   |     |   |   |
|                                    |           | W-TR-SQ-R                                                                    |                                   |                               | W-PCB-TQ-R                               |              |                 |                     |                 |                       |              |           |   |   |     |   |   |
| Phytoplankton                      |           | DTY-QN-C                                                                     |                                   |                               | PKD-QN-BV                                |              |                 | Ice                 |                 |                       |              |           |   |   |     |   |   |
| DOC                                |           | W-DOC                                                                        |                                   | Field Filtered 0.45 um Filter |                                          |              | Ice             |                     | H2SO 4*         |                       | <2           |           |   |   |     |   |   |
|                                    |           |                                                                              | Acid Preservative Expiration Date |                               |                                          |              |                 |                     |                 |                       |              |           |   |   |     |   |   |
|                                    |           |                                                                              | Acid Preservative Lot Number      |                               |                                          |              |                 |                     |                 |                       |              |           |   |   |     |   |   |



RQ-2023-05-15-40

Customer: FDEP

Project ID: SMP

Collected By: Nathan Mulkey, Myranda Butler

Field Report Prepared by: Nathan Mulkey,  
Myranda Butler

Sampling Agency: FDEP

WIN ID/Field ID:



WIN ID/Field ID: G4NW0421

Comments: Microbiology sample(s) submitted to contract laboratory.

Location: BIG ESCAMBIA CREEK DOWNSTREAM OF FANNIE RD

Matrix: Fresh

(Check One)

☒ Grab☐ Composite

| Date and Time {CEN} | DO (mg/L) | DO (%SAT) | Temp. °C | pH   | Sample Depth (m) | Secchi Depth | Total Depth (m) | Sp COND (µmhos /cm) | Salinity (PPTH) |
|---------------------|-----------|-----------|----------|------|------------------|--------------|-----------------|---------------------|-----------------|
| 5/17/2023<br>1130   | 8.19      | 96        | 23       | 6.17 | 0.2              | 0.4          | 0.4             | 30.1                | 0.01            |

  

| Parameter Suite                    | Parameter Methods |                                                                             |                |                                          | Preservation |             | pH Check |        | # Bottles sent to Lab | Bottle Group |    |   |
|------------------------------------|-------------------|-----------------------------------------------------------------------------|----------------|------------------------------------------|--------------|-------------|----------|--------|-----------------------|--------------|----|---|
| Preserved Nutrients (P-500ML)      | X                 | W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                 |                |                                          | X            | Ice         | X        | H2SO4* | X                     | <2           | 1  | A |
|                                    |                   | Lot #                                                                       |                | SA3013020                                | Exp:         | 1/24        |          |        |                       |              |    |   |
| Metals (P-500ML)                   |                   | W-ICPMS                                                                     |                | W-ICP                                    | W-HARD       |             | Ice      |        | HNO3*                 |              | <2 |   |
|                                    |                   | Lot #                                                                       |                | Exp:                                     |              |             |          |        |                       |              |    |   |
| Filtered Nutrients (P125ML)        |                   | W-PO4-F                                                                     |                | Field Filtered 0.45 um Filter            |              |             | Ice      |        |                       |              |    |   |
|                                    |                   | Filter Lot #                                                                |                | Syringe Lot #                            |              |             |          |        |                       |              |    |   |
| BOD (BP-1L)                        |                   | OV-80DUNIN                                                                  |                |                                          |              |             | Ice      |        |                       |              |    |   |
| Chlorophyll (BP-1L)                | X                 | CHLSUITE-W                                                                  |                |                                          |              | X           | Ice      |        |                       | 1            | A  |   |
| Physical/Aggregate (Fresh) (P-1L)  | X                 | Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS |                |                                          |              | X           | Ice      |        |                       | 1            | A  |   |
| Physical/Aggregate (Marine) (P-1L) |                   | Alkalinity / W-F / W-TSS / TURBIDITY                                        |                |                                          |              |             | Ice      |        |                       |              |    |   |
| Macroinvertebrates (PJ-2L)         |                   | MI-FW-QLDC                                                                  | Formalin Lot # |                                          |              |             | Formalin |        |                       |              |    |   |
| Periphyton (PT-50ML)               |                   | ALGAE-ID                                                                    |                |                                          |              |             | Ice      |        |                       |              |    |   |
| Microbiology (Contract Lab Bottle) | X                 | E Coli                                                                      |                | F Coli                                   |              | Enterococci | X        | Ice    |                       |              | 1  | A |
|                                    | X                 | Contract Lab                                                                |                |                                          |              |             |          |        |                       |              |    |   |
| Molecular (QPCR-P-500ML)           |                   | PCR-HF183                                                                   |                | PCR-BacR                                 | PCR-DG3      |             | Ice      |        |                       |              |    |   |
|                                    |                   | PCR-GULL2                                                                   |                | PCR-GFD                                  |              |             |          |        |                       |              |    |   |
| Tracers (BG-500ML)                 |                   | W-E8321-DI                                                                  |                | W-E8321-MS                               |              |             | Ice      |        |                       |              |    |   |
| Pesticides (BG-500ML) (BG-1L)      | X                 | W-E8321-DI                                                                  | X              | W-E8321-MS                               | X            | W-PSNP-TQ   | X        | Ice    | MCAA Exp.             | MCAA Lot#    | 10 | A |
|                                    | X                 | W-PCL-TQ-R                                                                  | X              | W-CARB-AA (5 ml of MCAA Buffer Solution) | X            | W-CT-CL-R   |          |        | 9/99/99               | Hi           |    |   |
|                                    | X                 | W-TR-SQ-R                                                                   | X              | W-PCB-TQ-R                               |              |             |          |        |                       |              |    |   |
| Phytoplankton                      |                   | DTY-QN-C                                                                    |                | PKD-QN-BV                                |              |             | Ice      |        |                       |              |    |   |
| DOC                                |                   | W-DOC                                                                       |                | Field Filtered 0.45 um Filter            |              |             | Ice      |        | H2SO4*                |              | <2 |   |
|                                    |                   |                                                                             |                | Acid Preservative Expiration Date        |              |             |          |        |                       |              |    |   |
|                                    |                   |                                                                             |                | Acid Preservative Lot Number             |              |             |          |        |                       |              |    |   |

Wetlands Research Laboratory | Regional Operation Centers | NW RBC | TMDL | SMP 2022 | Elected Officials | NW RBC | NW RBC



Date of Request: 18-APR-2023  
 Created By: SLADE\_C On: 18-APR-2023  
 Modified By: JASROTIA\_P On: 27-APR-2023  
 Customer: NW-DIST  
 Project: SMP  
 Division: Division of Environmental Assessment and Restoration  
 District: Northwest District  
 Event Description: NW Run

**Send Coolers To:**

Phone: 850-595-0567  
 160 W Government Street  
 Suite 208  
 Pensacola, FL 32502-5794  
 Attn: Stopher Slade  
 Cooler Ship EMail: christopher.slade@floridadep.gov

Priority: 3  
 Event Status: S  
 Criminal Investigation: NO  
 Chemistry Request Reviewed By: AYRES\_J On: 27-APR-2023  
 Biology Request Reviewed By: JASROTIA\_P On: 27-APR-2023  
 Sampling Kit Required: YES Ship on: 05-MAY-2023  
 Sampling Kit Shipped: YES On: 08-MAY-2023  
 Sampling Kit Packed By: LEBRUN\_T  
 Preservatives Needed: YES  
 Date to Receive Samples: 15-MAY-2023  
 Logged In By:

**Send Final Report To:**

160 W Government Street  
 Suite 208  
 Pensacola, FL 32502-5794  
 Attn: Myranda Butler  
 Report Notification EMail:  
 Christopher.slade@floridadep.gov;Myranda.k.butler@floridadep.gov

Comments: #####

Buffer Solution for W-CARB-AA Bottle  
 1 vial per bottle

#####

Group A: (WBID 10) Nutrients, Pesticides, Contract Lab Bacteria

Group B: (WBID 25, 87) Nutrients, Metals, Contract Lab Bacteria

Group C: (WBID 4) Metals, Contract Lab Bacteria

Group D: (WBID 149) Contract Lab Bacteria

Packing notes;

Fedex return packing slips

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

|                    |                      |                                                                                                         |
|--------------------|----------------------|---------------------------------------------------------------------------------------------------------|
| Bottle Type: P-1L  | Number of Bottles: 1 | Preserved With: ICE                                                                                     |
| ALKALINITY         | Template: DEFAULT    | (SM 2320 B-2011) 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    | (DEP SOP: NU-094-1) True Color measured at 450 nm (not valid for NPDES monitoring)                      |
| Color (true)       |                      |                                                                                                         |
| W-F                | Template: DEFAULT    | (SM 4500-F- C-2011) 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-2015) Total Dissolved Solids in aqueous matrices                                             |
| W-TSS              | Template: DEFAULT    | (SM 2540 D-2015) 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                                                                                     |

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

|                                            |                   |                                                 |                                                                                                                 |
|--------------------------------------------|-------------------|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Bottle Type: BP-1L<br>CHLSUITE-W           | Template: DEFAULT | Number of Bottles: 1<br>(SM 10150 B)            | Preserved With: ICE<br>Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry |
| Bottle Type: TEST HAS NO<br>NW-UWF-ECQ     | Template: DEFAULT | Number of Bottles: 1<br>(SM 9223 B Quanti-Tray) | Preserved With: ICE<br>E. coli by Colilert-18/QT by UWF in Pensacola                                            |
| Bottle Type: BG-500ML<br>W-CARB-AA         | Template: DEFAULT | Number of Bottles: 1<br>(EPA 8321B)             | Preserved With: CH <sub>2</sub> ClCOOH and Ice<br>Carbamates in water matrices by HPLC/MS/MS                    |
| Bottle Type: BG-500ML FILL TO<br>W-CT-CI-R | Template: DEFAULT | Number of Bottles: 4<br>(EPA 8276)              | Preserved With: ICE<br>Chlordane and Toxaphene in water matrices by GC/MS with Negative Chemical Ionization     |
| W-PCB-TQ-R                                 | Template: DEFAULT | (EPA 8270E)                                     | PCBs in water matrices by GC/MS/MS                                                                              |
| W-PCL-TQ-R                                 | Template: DEFAULT | (EPA 8270E)                                     | Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS                                |
| Bottle Type: BG-500ML<br>W-E8321-DI        | Template: DEFAULT | Number of Bottles: 1<br>(EPA 8321B)             | Preserved With: ICE<br>Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS              |
| W-E8321-MS                                 | Template: SMP     | (EPA 8321B)                                     | Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS                                     |
| Bottle Type: P-500ML<br>W-NH3              | Template: DEFAULT | Number of Bottles: 1<br>(EPA 350.1 Rev. 2.0)    | Preserved With: ICE And H <sub>2</sub> SO <sub>4</sub><br>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-2011)                                | Nonpurgeable Organic Carbon in aqueous matrices                                                                 |
| Bottle Type: BG-500ML<br>W-PSNP-TQ         | Template: DEFAULT | Number of Bottles: 4<br>(EPA 8270E)             | Preserved With: ICE<br>Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS                   |
| W-TR-SQ-R                                  | Template: DEFAULT | (EPA 8270E)                                     | Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM                                      |

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

|                                        |                     |                                                 |                                                                                                                           |
|----------------------------------------|---------------------|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: BP-1L<br>CHLSUITE-W       | Template: DEFAULT   | Number of Bottles: 2<br>(SM 10150 B)            | Preserved With: ICE<br>Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry           |
| Bottle Type: TEST HAS NO<br>NW-UWF-ECQ | Template: DEFAULT   | Number of Bottles: 2<br>(SM 9223 B Quanti-Tray) | Preserved With: ICE<br>E. coli by Colilert-18/QT by UWF in Pensacola                                                      |
| Bottle Type: P-500ML<br>W-HARD         | Template: DEFAULT   | Number of Bottles: 2<br>(SM 2340 B-2011)        | Preserved With: HNO <sub>3</sub><br>Hardness by calculation, in aqueous matrices, reported as mg/L CaCO <sub>3</sub>      |
| Hardness                               |                     |                                                 |                                                                                                                           |
| W-ICP                                  | Template: SMP-FRESH | (EPA 200.7 Rev. 4.4)                            | Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects |
| Calcium                                |                     |                                                 |                                                                                                                           |
| Iron                                   |                     |                                                 |                                                                                                                           |
| Magnesium                              |                     |                                                 |                                                                                                                           |
| Potassium                              |                     |                                                 |                                                                                                                           |
| Sodium                                 |                     |                                                 |                                                                                                                           |
| Strontium                              |                     |                                                 |                                                                                                                           |
| Tin                                    |                     |                                                 |                                                                                                                           |
| Titanium                               |                     |                                                 |                                                                                                                           |
| Vanadium                               |                     |                                                 |                                                                                                                           |
| Zinc                                   |                     |                                                 |                                                                                                                           |
| W-ICPMS                                | Template: DEFAULT   | (EPA 200.8 Rev. 5.4)                            | Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects                    |
| Aluminum                               |                     |                                                 |                                                                                                                           |
| Antimony                               |                     |                                                 |                                                                                                                           |
| Arsenic                                |                     |                                                 |                                                                                                                           |
| Barium                                 |                     |                                                 |                                                                                                                           |
| Beryllium                              |                     |                                                 |                                                                                                                           |
| Boron                                  |                     |                                                 |                                                                                                                           |
| Cadmium                                |                     |                                                 |                                                                                                                           |
| Chromium                               |                     |                                                 |                                                                                                                           |
| Cobalt                                 |                     |                                                 |                                                                                                                           |
| Copper                                 |                     |                                                 |                                                                                                                           |
| Lead                                   |                     |                                                 |                                                                                                                           |
| Manganese                              |                     |                                                 |                                                                                                                           |
| Molybdenum                             |                     |                                                 |                                                                                                                           |
| Nickel                                 |                     |                                                 |                                                                                                                           |

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

|                      |                      |                                                                                                                             |
|----------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-500ML | Number of Bottles: 2 | Preserved With: HNO3                                                                                                        |
| W-ICPMS              | Template: DEFAULT    | (EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects |

Selenium  
Silver  
Thallium

|                      |                      |                                                                     |
|----------------------|----------------------|---------------------------------------------------------------------|
| Bottle Type: P-500ML | Number of Bottles: 2 | 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-2011) Nonpurgeable Organic Carbon in aqueous matrices    |

|                   |                      |                                                                                                         |
|-------------------|----------------------|---------------------------------------------------------------------------------------------------------|
| Bottle Type: P-1L | Number of Bottles: 2 | Preserved With: ICE                                                                                     |
| ALKALINITY        | Template: DEFAULT    | (SM 2320 B-2011) 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    | (DEP SOP: NU-094-1) True Color measured at 450 nm (not valid for NPDES monitoring)                      |
| Color (true)      |                      |                                                                                                         |
| W-F               | Template: DEFAULT    | (SM 4500-F- C-2011) 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-2015) Total Dissolved Solids in aqueous matrices                                             |
| W-TSS             | Template: DEFAULT    | (SM 2540 D-2015) Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample         |

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

|                          |                      |                                                                       |
|--------------------------|----------------------|-----------------------------------------------------------------------|
| Bottle Type: TEST HAS NO | Number of Bottles: 1 | Preserved With: ICE                                                   |
| NW-UWF-ECQ               | Template: DEFAULT    | (SM 9223 B Quanti-Tray) E. coli by Colilert-18/QT by UWF in Pensacola |

|                      |                      |                                                                                       |
|----------------------|----------------------|---------------------------------------------------------------------------------------|
| Bottle Type: P-500ML | Number of Bottles: 1 | Preserved With: HNO3                                                                  |
| W-HARD               | Template: DEFAULT    | (SM 2340 B-2011) Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3 |

Hardness

|       |                     |                                                                                                                                                |
|-------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| W-ICP | Template: SMP-FRESH | (EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects |
|-------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------|

Calcium  
Iron  
Magnesium  
Potassium  
Sodium  
Strontium  
Tin  
Titanium  
Vanadium  
Zinc

|         |                   |                                                                                                                             |
|---------|-------------------|-----------------------------------------------------------------------------------------------------------------------------|
| W-ICPMS | Template: DEFAULT | (EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects |
|---------|-------------------|-----------------------------------------------------------------------------------------------------------------------------|

Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Boron  
Cadmium  
Chromium  
Cobalt  
Copper  
Lead  
Manganese  
Molybdenum  
Nickel  
Selenium  
Silver  
Thallium

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

Bottle Type: TEST HAS NO      Number of Bottles: 1      Preserved With: ICE  
NW-UWF-ECQ    Template: DEFAULT      (SM 9223 B Quanti-Tray) E. coli by Colilert-18/QT by UWF in Pensacola

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