

# Login Checklist

RQ- 2023-02-27-39

Login Station ID: 5

Shipping Method: FedEx | UPS | HD | Greyhound

Date/Time of Receipt: 3/23/23 @ 9:29

| *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 |                    |
| 1.2                 |                 |                                        |          | 5                                     |               | X  |          |    | 5859 4733 6704     |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |

## COOLER CHECK

\*All samples received on ice unless otherwise noted. HNO3 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 \_\_\_\_\_ No X

## 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 \_\_\_\_\_ No X Init: C.P

Chlorine detected? (One container checked per Field ID)

Yes \_\_\_\_\_ No \_\_\_\_\_ Init: \_\_\_\_\_

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.P

\*\*W-1-4-DIOX (Green dot on container) preserved to pH< 4.0?

Yes \_\_\_\_\_ No \_\_\_\_\_ NA X Init: C.P

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

Coolers Unpacked/Checked by: C.P

Date: 3/23/23

Event contains NCRs (Y/N)? N

EventID: SE-DIST-2023-03-23-01 (SMP)

Date Received: 23-MAR-2023 09:29

## Login Checklist

Login Preservation Equipment

Lot # & Exp: Date

Additional Comments:

|                          |                    |
|--------------------------|--------------------|
| Infrared Thermometer ID: | 221426058 10/17/23 |
| pH Test Strips 0 – 6     | 223819AV 08/30/23  |
| pH Paper 0 – 3           | NA                 |
| pH Paper 0 – 13          | 210620 4/15/2023   |
| Chlorine Test Strips     | 0070 03/2023       |

### 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:** 3/22/2023      **Collected By:** Charlie Hoey, Andrew Luering  
**Customer:**      **Sampling Agency:** FDEP  
**RQ:** RQ-2023-02-27-39      **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:** 1

**Delivery Method:** FedEx

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

| Site Location                                             | Field ID/WIN ID                                                                                |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------|
| C-54 confluence with Sebastian near Mockingbird Lane Dock | <br>G5SE0106 |

RELINQUISHED BY(SIGNATURE):



DATE/TIME: 3/22/2023

1400 EST

**THIS SECTION TO BE COMPLETED BY LABORATORY**

Rec'd/Inspected By:



Rec'd/Inspected

Date: 3-23-23



RQ-2023-02-27-39

Customer: FDEP

Project ID: SMP

Collected By: Charlie Hoey, Andrew Luering

Field Report Prepared by: Charlie Hoey, Andrew Luering

Sampling Agency: FDEP

Comments:

 WIN ID/Field ID:   
 WIN ID/Field ID: G5SE0106

Location: C-54 confluence with Sebastian near Mockingbird Lane Dock

Matrix: Marine

(Check One)

☒ Grab☐ Composite

| Date and Time {EST} | DO (mg/L) | DO (%SAT) | Temp. °C | pH   | Sample Depth (m) | Secchi Depth | Total Depth (m) | Sp COND (µmhos/cm) | Salinity (PPTH) |
|---------------------|-----------|-----------|----------|------|------------------|--------------|-----------------|--------------------|-----------------|
| 3/22/2023<br>1000   | 5.75      | 74.3      | 22.3     | 7.64 | 0.3              | 1            | 2.2             | 33048              | 20.73           |

  

| 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 #                                                                       | SA2299040                         |                                          | Exp:         | 11/04/2023  |          |        |                       |              |   |    |   |   |
| Metals (P-500ML)                   | X                 | W-ICPMS                                                                     | X                                 | W-ICP                                    | X            | W-HARD      | X        | Ice    | X                     | HNO3*        | X | <2 | 1 | B |
|                                    |                   | Lot #                                                                       | NA2230040                         |                                          | Exp:         | 09/01/2023  |          |        |                       |              |   |    |   |   |
| Filtered Nutrients (P125ML)        |                   | W-PO4-F                                                                     |                                   | Field Filtered 0.45 µm 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) |                   | E Coli                                                                      |                                   | F Coll                                   | X            | Enterococci | X        | Ice    |                       |              | 1 | B  |   |   |
|                                    |                   | 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-PSNP-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 µm Filter            |              |             | Ice      |        | H2SO4*                | <2           |   |    |   |   |
|                                    |                   |                                                                             | Acid Preservative Expiration Date |                                          |              |             |          |        |                       |              |   |    |   |   |
|                                    |                   |                                                                             | Acid Preservative Lot Number      |                                          |              |             |          |        |                       |              |   |    |   |   |

Date of Request: 09-FEB-2023  
 Created By: SKAGGS\_J On: 09-FEB-2023  
 Modified By: JASROTIA\_P On: 14-FEB-2023  
 Customer: SE-DIST  
 Project: SMP  
 Division: Division of Environmental Assessment and Restoration  
 District: Southeast District  
 Event Description: SMP - Seabastian River

**Send Coolers To:**

Phone: (772) 448-5884  
 FL Dept. of Environmental Protection  
 2199 South Rock Road  
 Fort Pierce, FL 34945  
 Attn: Jordan Skaggs  
 Cooler Ship EMail: jordan.skaggs@FloridaDEP.gov

Priority: 3  
 Event Status: R  
 Criminal Investigation: NO  
 Chemistry Request Reviewed By: AYRES\_J On: 13-FEB-2023  
 Biology Request Reviewed By: JASROTIA\_P On: 14-FEB-2023  
 Sampling Kit Required: YES Ship on: 22-FEB-2023  
 Sampling Kit Shipped: YES On: 21-FEB-2023  
 Sampling Kit Packed By: SHAIK\_A  
 Preservatives Needed: NO  
 Date to Receive Samples: 08-MAR-2023  
 Logged In By: SHAIK\_A On: 08-MAR-2023

**Send Final Report To:**

FL Dept. of Environmental Protection  
 2199 South Rock Road  
 Fort Pierce, FL 34945  
 Attn: Andrew Luering  
 Report Notification EMail:  
 jordan.skaggs@floridadep.gov;andrew.luering@floridadep.gov

Comments:  
 Sampler Comments:

A -  
 Nutrients, Ecoli  
 G5SE0048

B  
 Nutrients, Entero, Metals  
 G5SE0106 pickup

C  
 Entero  
 G5SE0106 DROPOFF

D  
 Entero, W-CT-CL-R, W-PCL-TQ-R, W-PCB-TQ-R  
 G5SE0079

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

|                             |                      |                                                                                                            |
|-----------------------------|----------------------|------------------------------------------------------------------------------------------------------------|
| Bottle Type: BP-1L          | Number of Bottles: 1 | Preserved With: ICE                                                                                        |
| CHLSUITE-W                  | Template: DEFAULT    | (SM 10150 B) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry      |
| Bottle Type: P-250ML-WO-THI | Number of Bottles: 1 | Preserved With: ICE                                                                                        |
| ECOLI-18QT                  | Template: DEFAULT    | (SM 9223 B Quanti-Tray) Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems |
| 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-2011) Nonpurgeable Organic Carbon in aqueous matrices                                           |

**Bottle Group B (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 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 Type: BP-1L          | Number of Bottles: 1 | Preserved With: ICE                                                                                                                            |
| CHLSUITE-W                  | Template: DEFAULT    | (SM 10150 B) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry                                          |
| Bottle Type: P-250ML-WO-THI | Number of Bottles: 1 | Preserved With: ICE                                                                                                                            |
| ENT-24-QT                   | Template: DEFAULT    | (Enterolert/QT) Enterococci by Enterolert Quanti-Tray method - non-chlorinated water systems                                                   |
| 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                      |                      |                                                                                                                                                |

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

|                      |                      |                                                                                                                             |
|----------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-500ML | Number of Bottles: 1 | 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: 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-2011) Nonpurgeable Organic Carbon in aqueous matrices    |

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

|                             |                      |                                                                                              |
|-----------------------------|----------------------|----------------------------------------------------------------------------------------------|
| Bottle Type: P-250ML-WO-THI | Number of Bottles: 1 | Preserved With: ICE                                                                          |
| ENT-24-QT                   | Template: DEFAULT    | (Enterolert/QT) Enterococci by Enterolert Quanti-Tray method - non-chlorinated water systems |

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

|                               |                      |                                                                                                 |
|-------------------------------|----------------------|-------------------------------------------------------------------------------------------------|
| Bottle Type: P-250ML-WO-THI   | Number of Bottles: 1 | Preserved With: ICE                                                                             |
| ENT-24-QT                     | Template: DEFAULT    | (Enterolert/QT) Enterococci by Enterolert Quanti-Tray method - non-chlorinated water systems    |
| Bottle Type: BG-500ML FILL TO | Number of Bottles: 4 | Preserved With: ICE                                                                             |
| W-CT-CI-R                     | Template: DEFAULT    | (EPA 8276) 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    |

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

