

09-06-48 SR  
RQ-2021-07-19-34 10-5-21

## Login Checklist

**Login Station ID: #4**

Shipping Method: ☒ FedEx ☐ UPS ☐ HD ☐ Greyhound

Date/Time of Receipt: 09/10/2021 @ 9:20

[illegible]

### 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 °C (above 10.0 °C 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 ✓ No       

**Micro-Biology Overflow Chain of Custody/ Field Sheet(s) Included?**

Yes \_\_\_\_\_ No X

## CONTAINER CHECK

### Evidence Tape on Bottles?

Yes ☐ No ☐ NA ☒

Evidence Tape intact? Yes \_\_\_\_\_ No \_\_\_\_\_

**If Criminal, photographs taken?**

Yes \_\_\_\_\_ No \_\_\_\_\_

Containers intact? Yes ☒ No ☐

### Caps on tight?

Yes ✓ No     

**Sufficient Sample Volume:**

Yes ✓ 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: TM

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 \_\_\_\_\_ No \_\_\_\_\_ NA X Init: TN

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

Yes \_\_\_\_\_ No \_\_\_\_\_ NA X Init: TR

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

Coolers Unpacked/Checked by:

Date: 09/10/21 Event contains NCRs (Y/N)? N

Event ID: SMP - 3208B deploy, 3208C nutrients  
SE-DIST-2021-09-10-01 (SMP)

Date Received: 10-SEP-2021 09:20

## Login Checklist

### Login Preservation Equipment

### Lot # & Exp: Date

### Additional Comments:

|                          |                            |
|--------------------------|----------------------------|
| Infrared Thermometer ID: | #4 Temp Gun EXP:10/28/2021 |
| pH Test Strips 0 – 6     | N/A                        |
| pH Paper 0 – 3           | N/A                        |
| pH Paper 0 – 13          | 210620 EXP:04/15/2023      |
| Chlorine Test Strips     | 0261 EXP:05/2023           |

### 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# \_\_\_\_\_

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

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

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

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
CHAIN OF CUSTODY FORM

**Date:** 9/9/2021  
**Customer:**  
**RQ:** RQ-2021-09-06-48

**Collected By:** Drew Liddick, Charlie Hoey  
**Sampling Agency:** FDEP  
**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                                                                                |
|------------------|------------------------------------------------------------------------------------------------|
| Willoughby Creek | <br>G2SE0034 |

RELINQUISHED BY(SIGNATURE):



DATE/TIME: 9/9/2021 1600  
EST

**THIS SECTION TO BE COMPLETED BY LABORATORY**

**Rec'd/Inspected By:**

**Rec'd/Inspected  
Date:**



|                                                                                                                                 |                                                      |
|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| RQ-2021-09-06-48                                                                                                                | Collected By: Drew Liddick, Charlie Hoey             |
| Customer: FDEP                                                                                                                  | Field Report Prepared by: Drew Liddick, Charlie Hoey |
| Project ID: SMP                                                                                                                 | Sampling Agency: FDEP                                |
| WIN ID/Field ID: <br>WIN ID/Field ID: G2SE0034 | Comments:                                            |

Location:  
Location: Willoughby Creek

Matrix: Marine

(Check One) ☒ Grab ☐ Composite

| Date and Time {EST}                | DO (mg/L)                                                                   | DO (%SAT)                                   | Temp. ©                       | pH          | Sample Depth (m) | Secchi Depth | Total Depth (m) | Sp COND (µmhos /cm)   | Salinity (PPT) |
|------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------|-------------------------------|-------------|------------------|--------------|-----------------|-----------------------|----------------|
| 9/9/2021 1025                      | 5.36                                                                        | 77.8                                        | 29.1                          | 7.87        | 0.3              | 1            | 1.7             | 32016                 | 19.76          |
| 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      | Ice              | HNO3*        | <2              |                       |                |
|                                    | Lot #                                                                       |                                             | Exp:                          |             |                  |              |                 |                       |                |
| Filtered Nutrients (P125ML)        | W-PO4-F                                                                     |                                             | Field Filtered 0.45 µm Filter |             | Ice              |              |                 |                       |                |
|                                    | Filter Lot #                                                                |                                             |                               |             |                  |              |                 |                       |                |
|                                    | Syringe Lot #                                                               |                                             |                               |             |                  |              |                 |                       |                |
| 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-BR-IC / 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          | 2               | 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              |              |                 |                       |                |
|                                    | W-PCL-TQ-R                                                                  | W-CARB-AA ( 5 ml of MCAA** Buffer Solution) |                               | W-CT-CL-R   |                  |              |                 |                       |                |
| Phytoplankton                      | DTY-QN-C                                                                    |                                             | PKD-QN-BV                     |             | Ice              |              |                 |                       |                |

Date of Request: 18-AUG-2021  
 Created By: SKAGGS\_J On: 18-AUG-2021  
 Modified By: JASROTIA\_P On: 19-AUG-2021  
 Customer: SE-DIST  
 Project: SMP  
 Division: Division of Environmental Assessment and Restoration  
 District: Southeast District  
 Event Description: SMP - 3208B deploy, 3208C nutrients

**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: S  
 Criminal Investigation: NO  
 Chemistry Request Reviewed By: WATTS\_J On: 18-AUG-2021  
 Biology Request Reviewed By: JASROTIA\_P On: 19-AUG-2021  
 Sampling Kit Required: YES Ship on: 27-AUG-2021  
 Sampling Kit Shipped: YES On: 23-AUG-2021  
 Sampling Kit Packed By: REYNOLDS\_T  
 Preservatives Needed: NO  
 Date to Receive Samples: 10-SEP-2021  
 Logged In By:

**Send Final Report To:**

FL Dept. of Environmental Protection  
 2199 South Rock Road  
 Fort Pierce, FL 34945  
 Attn: Drew Liddick  
 Report Notification EMail:  
 drew.liddick@FloridaDEP.gov;jordan.skaggs@floridadep.gov;and  
 rew.luering@floridadep.gov

**Comments:**

Deploy Day  
 Group B -  
 3208B - G2SE0034 (entero)

Group C - 3m nut  
 3208C - G2SE0063

Pickup Day  
 Group A -  
 3208B - G2SE0034 (3m nut, entero, metals, PCR, tracers, CT-CL-R)

**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-F                         | Template: DEFAULT    | (SM 4500 F-C-2011) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)                                        |
| W-TSS                       | Template: DEFAULT    | (SM 2540 D-2011) Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample                                               |
| Bottle Type: BP-1L          | Number of Bottles: 1 | Preserved With: ICE                                                                                                                           |
| CHLSUITE-W                  | Template: DEFAULT    | (SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry                                  |
| Bottle Type: 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: QPCR-P-500ML   | Number of Bottles: 1 | Preserved With: ICE                                                                                                                           |
| PCR-BACR                    | Template: DEFAULT    | (SOP-PCR-1.4) Detection and quantification of Ruminant specific Bacteroidetes BacR genetic marker with quantitative polymerase chain reaction |

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

|                               |                      |                                                                                                                                                |
|-------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: QPCR-P-500ML     | Number of Bottles: 1 | Preserved With: ICE                                                                                                                            |
| PCR-DG3                       | Template: DEFAULT    | (SOP-PCR-1.5) Detection and quantification of canine-specific DG3 Bacteroides genetic marker with quantitative polymerase chain reaction       |
| PCR-HF183                     | Template: DEFAULT    | (SOP-PCR-1.0) Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction      |
| Bottle Type: BG-500ML FILL TO | Number of Bottles: 4 | Preserved With: ICE                                                                                                                            |
| W-CT-CI-R                     | Template: DEFAULT    | (EPA 8276) Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization                                              |
| Bottle Type: BG-500ML         | Number of Bottles: 1 | Preserved With: ICE                                                                                                                            |
| W-E8321-DI                    | Template: DEFAULT    | (EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS                                                        |
| W-E8321-MS                    | Template: DEFAULT    | (EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS                                                        |
| Bottle Type: P-500ML          | Number of Bottles: 1 | Preserved With: HNO3                                                                                                                           |
| W-ICP                         | Template:            | (EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects |
| Calcium                       |                      |                                                                                                                                                |
| Iron                          |                      |                                                                                                                                                |
| Magnesium                     |                      |                                                                                                                                                |
| Manganese                     |                      |                                                                                                                                                |
| Zinc                          |                      |                                                                                                                                                |
| W-ICPMS                       | Template:            | (EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects                    |
| Aluminum                      |                      |                                                                                                                                                |
| Antimony                      |                      |                                                                                                                                                |
| Arsenic                       |                      |                                                                                                                                                |
| Beryllium                     |                      |                                                                                                                                                |
| Cadmium                       |                      |                                                                                                                                                |
| Chromium                      |                      |                                                                                                                                                |
| Copper                        |                      |                                                                                                                                                |
| Lead                          |                      |                                                                                                                                                |
| Nickel                        |                      |                                                                                                                                                |
| 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 Type: P-125ML | Number of Bottles: 1 | Preserved With: FILTER-ICE                                                               |
| W-PO4-F              | Template: DEFAULT    | (EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L |

**Bottle Group B (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 C (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-F                  | Template: DEFAULT    | (SM 4500 F-C-2011) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)       |
| W-TSS                | Template: DEFAULT    | (SM 2540 D-2011) Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample              |
| Bottle Type: BP-1L   | Number of Bottles: 1 | Preserved With: ICE                                                                                          |
| CHLSUITE-W           | Template: DEFAULT    | (SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry |
| Bottle Type: 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                                             |

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

Bottle Type: P-125ML

Number of Bottles: 1

Preserved With: FILTER-ICE

W-PO4-F

Template: DEFAULT

(EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

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

