

RQ-2023-11-27-31

## Login Checklist

Login Station ID: 5

Shipping Method: FedEx | UPS | HD | Greyhound

Date/Time of Receipt: 12/6/23 @ 9:19

| *Cooler Temperature | Samples Frozen?<br>YES | * All Samples in Cooler Preserved with |          | Number of Sample Containers in Cooler | Evidence Tape |    |          |    | Waybill Tracking # |
|---------------------|------------------------|----------------------------------------|----------|---------------------------------------|---------------|----|----------|----|--------------------|
|                     |                        | HNO <sub>3</sub>                       | Formalin |                                       | Present?      |    | *Intact? |    |                    |
|                     |                        |                                        |          |                                       | Yes           | No | Yes      | No |                    |
| 2.4                 |                        |                                        |          | 13                                    |               | X  |          |    | 648484603879       |
|                     |                        |                                        |          |                                       |               |    |          |    |                    |
|                     |                        |                                        |          |                                       |               |    |          |    |                    |
|                     |                        |                                        |          |                                       |               |    |          |    |                    |
|                     |                        |                                        |          |                                       |               |    |          |    |                    |
|                     |                        |                                        |          |                                       |               |    |          |    |                    |

## 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 \_\_\_\_\_ No X

## CONTAINER CHECK

Evidence Tape on Bottles?

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

If Criminal, photographs taken?

Yes \_\_\_\_\_ No XContainers 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 &lt; 2.0?

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

\*\*W-1-4-DIOX (Green dot on container) preserved to pH &lt; 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: 12/6/23

Event contains NCRs (Y/N)? NEventID: SE-DIST-2023-12-06-01 (SMP)  
Date Received: 06-DEC-2023 09:19

## Login Checklist

Login Preservation Equipment

Lot # & Exp: Date

Additional Comments:

|                          |                         |
|--------------------------|-------------------------|
| Infrared Thermometer ID: | IR TEMP GUN #5 10/16/24 |
| pH Test Strips 0 – 6     | 223819av 03/15/2024     |
| pH Paper 0 – 3           | NA                      |
| pH Paper 0 – 13          | 210820 3/15/2024        |
| Chlorine Test Strips     | 0070 02/2023            |

### 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:** 12/5/2023      **Collected By:** Andrew Lueling, Jordan Skaggs  
**Customer:** SE-DIST      **Sampling Agency:** FDEP  
**RQ:** RQ-2023-11-27-31      **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                                                                                  |
|-----------------------------|--------------------------------------------------------------------------------------------------|
| LAKE CARRIE NEAR CENTER     | <br>G4SE0164   |
| LAKE CREWS NORTHERN SECTION | <br>G4SE0168   |
| LAKE FRANCIS NEAR CENTER    | <br>G4SE0165 |
| LAKE HENRY NEAR CENTER      | <br>G4SE0162 |
| BUCK LAKE NEAR CENTER       | <br>G4SE0167 |

RELINQUISHED BY(SIGNATURE):



DATE/TIME: 12/5/2023  
1600 EST

**THIS SECTION TO BE COMPLETED BY LABORATORY**

Rec'd/Inspected By: 

Rec'd/Inspected  
Date: 12-6-23



|                        |                                                                |
|------------------------|----------------------------------------------------------------|
| RQ-2023-11-27-31       | <b>Collected By:</b> Andrew Luering, Jordan Skaggs             |
| <b>Customer:</b> FDEP  | <b>Field Report Prepared by:</b> Andrew Luering, Jordan Skaggs |
| <b>Project ID:</b> SMP | <b>Sampling Agency:</b> FDEP                                   |

|                                                                                                                                               |                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <b>WIN ID/Field ID:</b> <br><b>WIN ID/Field ID:</b> G4SE0164 | <b>Comments:</b> |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------|

|                                          |
|------------------------------------------|
| <b>Location:</b> LAKE CARRIE NEAR CENTER |
|------------------------------------------|

|               |                                                                                         |
|---------------|-----------------------------------------------------------------------------------------|
| Matrix: Fresh | (Check One) <input checked="" type="checkbox"/> Grab <input type="checkbox"/> 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) |
|---------------------|-----------|-----------|----------|------|------------------|--------------|-----------------|---------------------|-----------------|
| 12/5/2023<br>1230   | 8.31      | 96.8      | 23       | 7.11 | 0.3              | 1.3          | 1.93            | 120.2               | 0.06            |

| 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 #                                                                        |                               | SA3193140                                |      | Exp:         | 07/31/2024  |          |           |       |                       |              |   |           |
| 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-BODUNIN                                                                   |                               |                                          |      |              |             | Ice      |           |       |                       |              |   |           |
| Chlorophyll (BP-1L)                | X                                 | CHLSUITE-W                                                                   |                               |                                          |      |              | X           | Ice      |           |       |                       |              |   |           |
| Physical/Aggregate (Fresh) (P-1L)  | X                                 | Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W- TDS |                               |                                          |      |              | X           | 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) |                                   | E Coli                                                                       |                               | F Coli                                   |      |              | Enterococci |          | Ice       |       |                       |              |   |           |
|                                    |                                   | 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 (BP-1L)              |                                   | DTY-QN-C                                                                     |                               | PKD-QN-BV                                |      |              | Ice         |          |           |       |                       |              |   |           |
| DOC (P-500ML)                      |                                   | W-DOC                                                                        | Field Filtered 0.45 um Filter |                                          |      | Ice          |             | H2SO 4*  |           | <2    |                       |              |   |           |
|                                    | Acid Preservative Expiration Date |                                                                              |                               |                                          |      |              |             |          |           |       |                       |              |   |           |
|                                    | Acid Preservative Lot Number      |                                                                              |                               |                                          |      |              |             |          |           |       |                       |              |   |           |



RQ-2023-11-27-31

Collected By: Andrew Luering, Jordan Skaggs

Customer: FDEP

Field Report Prepared by: Andrew Luering,  
Jordan Skaggs

Project ID: SMP

Sampling Agency: FDEP

Comments:

WIN ID/Field ID:



WIN ID/Field ID: G4SE0168

Location: LAKE CREWS NORTHERN SECTION

Matrix: Fresh

(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 (PPT) |
|---------------------|-----------|-----------|----------|------|------------------|--------------|-----------------|--------------------|----------------|
| 12/5/2023<br>1240   | 8.62      | 99.6      | 22.6     | 5.86 | 0.3              | 1.3          | 1.77            | 71.1               | 0.03           |

  

| 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 #                                                                     | SA3193140 |                                          | Exp: 07/31/2024 |             |                       |              |
| Metals (P-500ML)                   | X                 | W-ICPMS                                                                   | X         | W-ICP                                    | X               | X           | X                     | HNO3*        |
|                                    |                   | Lot #                                                                     | NA193130  |                                          | Exp: 07/27/2024 | X <2        | 1                     | B            |
| Filtered Nutrients (P125ML)        |                   | W-PO4-F                                                                   |           | Field Filtered 0.45 µm Filter            |                 |             |                       |              |
|                                    |                   | 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-CHC / 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 Coli                                   |                 | Enterococci |                       |              |
|                                    |                   | Contract Lab                                                              |           |                                          | Ice             |             |                       |              |
| 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-PSNP-TQ   |                       |              |
|                                    |                   | 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 (BP-1L)              |                   | DTY-QN-C                                                                  |           | PKD-QN-BV                                |                 | Ice         |                       |              |
| DOC (P-500ML)                      |                   | W-DOC                                                                     |           | Field Filtered 0.45 µm Filter            |                 | Ice         |                       | H2SO4*       |
|                                    |                   |                                                                           |           | Acid Preservative Expiration Date        |                 |             | <2                    |              |
|                                    |                   |                                                                           |           | Acid Preservative Lot Number             |                 |             |                       |              |



RQ-2023-11-27-31

Customer: FDEP

Project ID: SMP

Collected By: Andrew Luering, Jordan Skaggs

Field Report Prepared by: Andrew Luering,  
Jordan Skaggs

Sampling Agency: FDEP

WIN ID/Field ID:   
WIN ID/Field ID: G4SE0165

Comments:

Location: LAKE FRANCIS NEAR CENTER

Matrix: Fresh

(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 (PPT) |
|---------------------|-----------|-----------|----------|------|------------------|--------------|-----------------|--------------------|----------------|
| 12/5/2023<br>1315   | 8.69      | 101.9     | 23.4     | 7.12 | 0.3              | 1.1          | 1.29            | 182.9              | 0.09           |

  

| 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 #                                                                       | SA3193140                                |                               |              | Exp:          | 07/31/2024 |        |                       |              |   |    |  |  |
| 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 # |            |        |                       |              |   |    |  |  |
| BOD (BP-1L)                        |                                   | OV-BODUNIN                                                                  |                                          |                               |              |               | 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) |                                   | E Coli                                                                      |                                          | F Coli                        |              | Enterococci   |            | Ice    |                       |              |   |    |  |  |
|                                    |                                   | 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 (BP-1L)              |                                   | DTY-QN-C                                                                    |                                          | PKD-QN-BV                     |              |               | Ice        |        |                       |              |   |    |  |  |
| DOC (P-500ML)                      |                                   | W-DOC                                                                       | Field Filtered 0.45 µm Filter            |                               |              | Ice           |            | H2SO4* |                       | <2           |   |    |  |  |
|                                    | Acid Preservative Expiration Date |                                                                             |                                          |                               |              |               |            |        |                       |              |   |    |  |  |
|                                    | Acid Preservative Lot Number      |                                                                             |                                          |                               |              |               |            |        |                       |              |   |    |  |  |

WIN ID/Field ID:   
WIN ID/Field ID: G4SE0167

Matrix: Fresh

| 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 (PPT <sub>h</sub> ) |                       |              |    |    |   |     |   |
|------------------------------------|-----------|--------------------------------------|------------------------------------------------------------------------------|------------------------------------------|-------------------------------|--------------|-----------------|---------------------|------------------------------|-----------------------|--------------|----|----|---|-----|---|
| 12/5/2023 1400                     | 8.17      | 95.9                                 | 23.3                                                                         | 7.18                                     | 0.3                           | 4.92         | 4.92            | 299.2               | 0.14                         |                       |              |    |    |   |     |   |
| 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 #                                |                                                                              | SA34193140                               |                               | Exp:         |                 | 07/31/2024          |                              |                       |              |    |    |   |     |   |
| 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 #                            |                               |              |                 |                     |                              |                       |              |    |    |   |     |   |
| BOD (BP-1L)                        |           | OV-BODUNIN                           |                                                                              |                                          |                               |              |                 | 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) |           | E Coli                               |                                                                              |                                          | F Coli                        |              |                 | Enterococci         |                              |                       |              |    |    |   | Ice |   |
|                                    |           | 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 (BP-1L)              |           | DTY-QN-C                             |                                                                              | PKD-QN-BV                                |                               |              | Ice             |                     |                              |                       |              |    |    |   |     |   |
| DOC (P-500ML)                      |           | W-DOC                                |                                                                              | Field Filtered 0.45 µm Filter            |                               |              | Ice             |                     | H2SO 4*                      |                       | <2           |    |    |   |     |   |
|                                    |           |                                      |                                                                              | Acid Preservative Expiration Date        |                               |              |                 |                     |                              |                       |              |    |    |   |     |   |
|                                    |           |                                      |                                                                              | Acid Preservative Lot Number             |                               |              |                 |                     |                              |                       |              |    |    |   |     |   |



RQ-2023-11-27-31

Customer: FDEP

Project ID: SMP

Collected By: Andrew Lueling, Jordan Skaggs

Field Report Prepared by: Andrew Lueling,  
Jordan Skaggs

Sampling Agency: FDEP

Comments:

 WIN ID/Field ID:   
 WIN ID/Field ID: G4SE0162

Location: LAKE HENRY NEAR CENTER

Matrix: Fresh

(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 (PPT) |
|---------------------|-----------|-----------|----------|------|------------------|--------------|-----------------|--------------------|----------------|
| 12/5/2023<br>1340   | 8.9       | 104.5     | 23.4     | 7.44 | 0.3              | 1.1          | 1.23            | 178.2              | 0.08           |

  

| 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 #                                                                       |                                          | SA3193140                     | Exp:         | 07/31/2024 |           |           |                       |              |   |   |
| 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 #                 |              |            |           |           |                       |              |   |   |
| BOD (BP-1L)                        |                   | OV-BODUNIN                                                                  |                                          |                               | 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) |                   | E Coli                                                                      | F Coli                                   | Enterococci                   |              | Ice        |           |           |                       |              |   |   |
|                                    |                   | 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 (BP-1L)              |                   | DTY-QN-C                                                                    | PKD-QN-BV                                |                               |              | Ice        |           |           |                       |              |   |   |
| DOC (P-500ML)                      |                   | W-DOC                                                                       | Field Filtered 0.45 µm Filter            |                               |              | Ice        | H2SO4*    |           | <2                    |              |   |   |
|                                    |                   |                                                                             | Acid Preservative Expiration Date        |                               |              |            |           |           |                       |              |   |   |
|                                    |                   |                                                                             | Acid Preservative Lot Number             |                               |              |            |           |           |                       |              |   |   |

Date of Request: 30-OCT-2023  
 Created By: SKAGGS\_J On: 30-OCT-2023  
 Modified By: JASROTIA\_P On: 08-NOV-2023  
 Customer: SE-DIST  
 Project: SMP  
 Division: Division of Environmental Assessment and Restoration  
 District: Southeast District  
 Event Description: SMP - Highlands Canoe South

**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: AYRES\_J On: 08-NOV-2023  
 Biology Request Reviewed By: JASROTIA\_P On: 08-NOV-2023  
 Sampling Kit Required: YES Ship on: 17-NOV-2023  
 Sampling Kit Shipped: YES On: 16-NOV-2023  
 Sampling Kit Packed By: LEBRUN\_T  
 Preservatives Needed: NO  
 Date to Receive Samples: 06-DEC-2023  
 Logged In By:

**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  
 G4SE0165-Nutrients  
 G4SE0162-Nutrients  
 G4SE0167-Nutrients  
 G4SE0164-Nutrients

B  
 G4SE0168- Nutrients, Metals

**Bottle Group A (Water) With 4 Samples:**

|                                   |                      |                                                                                                         |
|-----------------------------------|----------------------|---------------------------------------------------------------------------------------------------------|
| Bottle Type: P-1L                 | Number of Bottles: 4 | 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-SO <sub>4</sub> -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: 4 | Preserved With: ICE                                                                                     |
| CHLSUITE-W                        | Template: DEFAULT    | (SM 10150 B) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry   |
| Bottle Type: P-500ML              | Number of Bottles: 4 | Preserved With: ICE And H <sub>2</sub> SO <sub>4</sub>                                                  |
| W-NH <sub>3</sub>                 | Template: DEFAULT    | (EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L                                              |
| W-NO <sub>2</sub> NO <sub>3</sub> | Template: DEFAULT    | (EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L                                      |

**Bottle Group A (Water) With 4 Samples:**

|                      |                      |                                                                     |
|----------------------|----------------------|---------------------------------------------------------------------|
| Bottle Type: P-500ML | Number of Bottles: 4 | Preserved With: ICE And H2SO4                                       |
| 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-2014) 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-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: DEFAULT    | (EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects |

Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Boron  
Cadmium  
Calcium  
Chromium  
Cobalt  
Copper  
Iron  
Lead  
Magnesium  
Manganese  
Molybdenum  
Nickel  
Potassium  
Selenium  
Silver  
Sodium  
Strontium  
Thallium  
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

**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 |

Chromium  
Cobalt  
Copper  
Lead  
Manganese  
Molybdenum  
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-2014) Nonpurgeable Organic Carbon in aqueous matrices    |

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

