

RQ-2020-10-19-23

## Login Checklist

Login Station ID: #4

Shipping Method: FedEx | UPS | HD | GreyhoundDate/Time of Receipt: 12/11/2020 @ 09:35

| *Cooler Temperature | Samples Frozen? | * All Samples in Cooler Preserved with |          | Number of Sample Containers in Cooler | Evidence Tape |    |          |    | Waybill Tracking # |
|---------------------|-----------------|----------------------------------------|----------|---------------------------------------|---------------|----|----------|----|--------------------|
|                     |                 |                                        |          |                                       | Present?      |    | *Intact? |    |                    |
|                     | YES             | HNO <sub>3</sub>                       | Formalin |                                       | Yes           | No | Yes      | No |                    |
| -0.2°               |                 |                                        |          | 12                                    |               | X  |          |    | 9293 8006 8083     |
| -0.4°               |                 |                                        |          | 10                                    |               | X  |          |    | 9293 8006 8072     |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |

## 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 ☒

## 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 ☒ Init: Tyler

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 ☒ No ☐ NA ☐ Init: Tyler

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

Yes ☐ No ☐ NA ☒ Init: Tyler

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

Coolers Unpacked/Checked by: Tyler Date: 12/11/2020 Event contains NCRs (Y/N)? None

Event ID:

SMP- Miami 2020 3rd Trip  
SE-DIST-2020-12-11-01 (SMP)

Date Received: 11-DEC-2020 09:35

# 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          | 231019 EXP:11/01/2022      |
| Chlorine Test Strips     | 8261 EXP:07/2021           |

## 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:** 12/10/2020  
**Customer:** \_\_\_\_\_  
**RQ:** RQ-2020-10-19-23

**Collected By:** Drew Liddick,  
**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:** 2

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

| Site Location           | Field ID/WIN ID                                                                                   |
|-------------------------|---------------------------------------------------------------------------------------------------|
| Hazel Street East Key A | <br>G4SE0135    |
| Pelican Cay Key A       | <br>G4SE0134    |
| FB                      | <br>FB_121020 |
| C-111 West              | <br>G4SE0127  |

RELINQUISHED BY(SIGNATURE): *Drew Liddick*

DATE/TIME: 12/10/2020  
1700

**THIS SECTION TO BE COMPLETED BY LABORATORY**

Rec'd/Inspected By: *Tyler Ruppel*

Rec'd/Inspected Date: *12/11/2020*



RQ-2020-10-19-23

Customer: WQAP

Project ID: SMP

Collected By: Drew Liddick

Field Report Prepared By: Drew Liddick

Sampling Agency: FDEP

| Place Label Here                                                                                               |             |                                                                                                                                                                                                                                                          |           |                                |      | Comments:                                                                               |                                                    |                                        |                       |                 |
|----------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------|------|-----------------------------------------------------------------------------------------|----------------------------------------------------|----------------------------------------|-----------------------|-----------------|
| WIN ID/Field ID: <br>G4SE0135 |             |                                                                                                                                                                                                                                                          |           |                                |      |                                                                                         |                                                    |                                        |                       |                 |
| Location: Hazel Street East Key A                                                                              |             |                                                                                                                                                                                                                                                          |           |                                |      |                                                                                         |                                                    |                                        |                       |                 |
| Matrix: Marine                                                                                                 |             |                                                                                                                                                                                                                                                          |           |                                |      | (Check one) <input checked="" type="checkbox"/> GRAB <input type="checkbox"/> COMPOSITE |                                                    |                                        |                       |                 |
| Date                                                                                                           | Time        | DO (mg/L)                                                                                                                                                                                                                                                | DO (%SAT) | Temp. (C°)                     | pH   | Sample Depth (m)                                                                        | Secchi Disk (m)                                    | Total Depth (m)                        | Sp COND (µmhos/cm)    | Salinity (PPTH) |
| 12/10/2020                                                                                                     | 1130<br>EST | 8.53                                                                                                                                                                                                                                                     | 101.4     | 18.8                           | 8    | 0.3                                                                                     | 1.1<br><input checked="" type="checkbox"/> VOB (S) | 1.1                                    | 28381                 | 17.54           |
| Central Lab please use top row for login purposes                                                              |             |                                                                                                                                                                                                                                                          |           |                                |      |                                                                                         |                                                    |                                        |                       |                 |
|                                                                                                                | EST         |                                                                                                                                                                                                                                                          |           |                                |      |                                                                                         |                                                    |                                        |                       |                 |
| Parameter Suite                                                                                                |             | Parameter Methods                                                                                                                                                                                                                                        |           |                                |      | Preservation                                                                            |                                                    | pH Check                               | # Bottles sent to Lab | Bottle Group    |
| Preserved Nutrients (P-500ML)                                                                                  |             | <input checked="" type="checkbox"/> W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                                                                                                                                                          |           |                                |      | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> H2SO4*      |                                                    | <input checked="" type="checkbox"/> <2 | 1                     | B               |
|                                                                                                                |             | Lot #                                                                                                                                                                                                                                                    | SA9354050 |                                | Exp: | 12/20/20                                                                                |                                                    |                                        |                       |                 |
| Metals (P-500ML)                                                                                               |             | <input checked="" type="checkbox"/> W-ICPMS <input checked="" type="checkbox"/> W-ICP <input checked="" type="checkbox"/> W-HARD                                                                                                                         |           |                                |      | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> HNO3*       |                                                    | <input checked="" type="checkbox"/> <2 | 1                     | B               |
|                                                                                                                |             | Lot #                                                                                                                                                                                                                                                    | NA9354060 |                                | Exp: | 12/20/20                                                                                |                                                    |                                        |                       |                 |
| Filtered Nutrients (P125ML)                                                                                    |             | <input checked="" type="checkbox"/> W-PO4-F <input checked="" type="checkbox"/> Field Filtered 0.45 µm Filter                                                                                                                                            |           |                                |      | <input checked="" type="checkbox"/> Ice                                                 |                                                    |                                        | 1                     | B               |
|                                                                                                                |             | Filter Lot #                                                                                                                                                                                                                                             |           |                                |      |                                                                                         |                                                    |                                        |                       |                 |
|                                                                                                                |             | Syringe Lot #                                                                                                                                                                                                                                            | 9303354   |                                |      |                                                                                         |                                                    |                                        |                       |                 |
| Chlorophyll (BP-1L)                                                                                            |             | <input checked="" type="checkbox"/> CHLSUITE-W                                                                                                                                                                                                           |           |                                |      | <input checked="" type="checkbox"/> Ice                                                 |                                                    |                                        | 1                     | B               |
| Physical/Aggregate (Fresh) (P-1L)                                                                              |             | <input type="checkbox"/> Alkalinity / W-F / W-TSS / TURBIDITY / W-CHIC / W-COLOR / W-SO4-IC / W-TDS                                                                                                                                                      |           |                                |      | <input type="checkbox"/> Ice                                                            |                                                    |                                        |                       |                 |
| Physical/Aggregate (Marine) (P-1L)                                                                             |             | <input checked="" type="checkbox"/> Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY                                                                                                                                                                       |           |                                |      | <input checked="" type="checkbox"/> Ice                                                 |                                                    |                                        | 1                     | B               |
| Macroinvertebrates (PJ-2L)                                                                                     |             | <input type="checkbox"/> MI-FW-QLDC                                                                                                                                                                                                                      |           |                                |      | <input type="checkbox"/> Formalin                                                       |                                                    |                                        |                       |                 |
| Periphyton (PT-50ML)                                                                                           |             | <input type="checkbox"/> ALGAE-ID                                                                                                                                                                                                                        |           |                                |      | <input type="checkbox"/> Ice                                                            |                                                    |                                        |                       |                 |
| Microbiology (Contract Lab Bottle)                                                                             |             | <input type="checkbox"/> E Coli <input type="checkbox"/> F Coli <input checked="" type="checkbox"/> Enterococci<br><input type="checkbox"/> Contract Lab                                                                                                 |           |                                |      | <input checked="" type="checkbox"/> Ice                                                 |                                                    |                                        | 1                     | B               |
| Molecular (QPCR-P-500ML)                                                                                       |             | <input type="checkbox"/> PCR-HF183 <input type="checkbox"/> PCR-BacR <input type="checkbox"/> PCR-DG3<br><input type="checkbox"/> PCR-GULL2 <input type="checkbox"/> PCR-GFD <input type="checkbox"/>                                                    |           |                                |      | <input type="checkbox"/> Ice                                                            |                                                    |                                        |                       |                 |
| Tracers (BG-500ML)                                                                                             |             | <input type="checkbox"/> W-E8321-DI <input type="checkbox"/> W-E8321-MS                                                                                                                                                                                  |           |                                |      | <input type="checkbox"/> Ice                                                            |                                                    |                                        |                       |                 |
| Pesticides (BG-500ML) (BG-1L)                                                                                  |             | <input type="checkbox"/> W-E8321-DI <input type="checkbox"/> W-E8321-MS <input type="checkbox"/> W-PSNP-TQ <input type="checkbox"/> W-CT-CL-R<br><input type="checkbox"/> W-PCL-SQ-R <input type="checkbox"/> W-CARB-AA (5 ml of MCAA** Buffer Solution) |           |                                |      | <input type="checkbox"/> Ice                                                            |                                                    |                                        |                       |                 |
|                                                                                                                |             |                                                                                                                                                                                                                                                          |           |                                |      | <input type="checkbox"/> Ice                                                            |                                                    |                                        |                       |                 |
| Name: Drew Liddick                                                                                             |             |                                                                                                                                                                                                                                                          |           | Signature: <i>Drew Liddick</i> |      |                                                                                         |                                                    |                                        | Date: 12/10/2020      |                 |

\*2.0 ml of Preservative used unless noted otherwise.

\*\*MCAA: Monochloroacetic acid buffer solution



RQ- 2020-10-19-23

Customer: WQAP

Project ID: SMP

Collected By: Drew Liddick,

Field Report Prepared By: Drew Liddick,

Sampling Agency: FDEP

BLANK



Field ID: FB 121020

Comments:

Matrix: FB

(Check one) ☐ COMPOSITE ☒ GRAB

Date

Time

DI Source: UFIFAS

12/10/2020

1607619600000

1215

EST

| Parameter Suite                    | Parameter Methods                                                                                                                                                                                                                                        | Preservation                                                                      | pH Check                               | # Bottles sent to Lab | Bottle Group |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------|-----------------------|--------------|
| Preserved Nutrients (P-500ML)      | <input checked="" type="checkbox"/> W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP<br>Lot # SA9354050 Exp: 12/20/20                                                                                                                                         | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> H2SO4 | <input checked="" type="checkbox"/> <2 | 1                     | C            |
| Metals (P-500ML)                   | <input checked="" type="checkbox"/> W-ICPMS <input checked="" type="checkbox"/> W-ICP<br>Lot # NA9354060 Exp: 12/20/20                                                                                                                                   | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> H2SO4 | <input checked="" type="checkbox"/> <2 | 1                     | C            |
| Filtered Nutrients (P125ML)        | <input type="checkbox"/> W-P04-F Filter <input type="checkbox"/> Field Filtered 0.45 µm<br>Filter Lot #<br>Syringe Lot # 9303354                                                                                                                         | <input type="checkbox"/> Ice                                                      |                                        | 1                     | C            |
| Physical/Aggregate (Fresh) (P-1L)  | <input type="checkbox"/> Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-S04-IC / W-IC / TDS                                                                                                                                                | <input type="checkbox"/> Ice                                                      |                                        |                       |              |
| Physical/Aggregate (Marine) (P-1L) | <input checked="" type="checkbox"/> Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY                                                                                                                                                                       | <input checked="" type="checkbox"/> Ice                                           |                                        | 1                     | C            |
| Tracers (BG-500ML)                 | <input type="checkbox"/> W-E8321-DI <input type="checkbox"/> W-E8321-MS                                                                                                                                                                                  | <input type="checkbox"/> Ice                                                      |                                        |                       |              |
| Pesticides (BG-500ML) (BG-1L)      | <input type="checkbox"/> W-E8321-DI <input type="checkbox"/> W-E8321-MS <input type="checkbox"/> W-PSNP-TQ <input type="checkbox"/> W-CT-CL-R<br><input type="checkbox"/> W-PCL-SQ-R <input type="checkbox"/> W-CARB-AA (5 ml of MCAA** Buffer Solution) | <input type="checkbox"/> Ice                                                      |                                        |                       |              |
| Name: Drew Liddick                 |                                                                                                                                                                                                                                                          | Signature: Drew Liddick                                                           |                                        | Date: 12/10/2020      |              |

\*2.0 ml of Preservative used unless noted otherwise.

\*\*MCAA: Monochloroacetic acid buffer solution



RQ-2020-10-19-23

Customer: WQAP

Project ID: SMP

Collected By: Drew Liddick

Field Report Prepared By: Drew Liddick

Sampling Agency: FDEP

Place Label Here

WIN ID/Field ID:



G4SE0134

Location: Pelican Cay Key A

Comments:

Matrix: Marine

(Check one)

☒ GRAB☐ COMPOSITE

| Date       | Time        | DO<br>(mg/L) | DO<br>(%SAT) | Temp. (C°) | pH   | Sample<br>Depth (m) | Secchi Disk<br>(m)                                 | Total Depth<br>(m) | Sp COND<br>(µmhos/cm) | Salinity<br>(PPT) |
|------------|-------------|--------------|--------------|------------|------|---------------------|----------------------------------------------------|--------------------|-----------------------|-------------------|
| 12/10/2020 | 1200<br>EST | 8.32         | 98.2         | 18.4       | 8.12 | 0.3                 | 1.4<br><input checked="" type="checkbox"/> VOB (S) | 1.4                | 28141                 | 17.38             |

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|  |     |  |  |  |  |  |  |  |  |  |
|--|-----|--|--|--|--|--|--|--|--|--|
|  | EST |  |  |  |  |  |  |  |  |  |
|--|-----|--|--|--|--|--|--|--|--|--|

| Parameter Suite                       | Parameter Methods                                                                                                                                                                                                                                         | Preservation                                                                       | pH Check                               | # Bottles<br>sent to Lab | Bottle<br>Group |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------|--------------------------|-----------------|
| Preserved Nutrients<br>(P-500ML)      | <input checked="" type="checkbox"/> W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP<br>Lot # SA9354050 Exp: 12/20/20                                                                                                                                          | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> H2SO4* | <input checked="" type="checkbox"/> <2 | 1                        | B               |
| Metals<br>(P-500ML)                   | <input checked="" type="checkbox"/> W-ICPMS <input checked="" type="checkbox"/> W-ICP <input checked="" type="checkbox"/> W-HARD<br>Lot # NA9354060 Exp: 12/20/20                                                                                         | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> HNO3*  | <input checked="" type="checkbox"/> <2 | 1                        | B               |
| Filtered Nutrients<br>(P125ML)        | <input checked="" type="checkbox"/> W-PO4-F <input checked="" type="checkbox"/> Field Filtered 0.45 µm Filter<br>Filter Lot #<br>Syringe Lot # 9303354                                                                                                    | <input checked="" type="checkbox"/> Ice                                            |                                        | 1                        | B               |
| Chlorophyll<br>(BP-1L)                | <input checked="" type="checkbox"/> CHLSUITE-W                                                                                                                                                                                                            | <input checked="" type="checkbox"/> Ice                                            |                                        | 1                        | B               |
| Physical/Aggregate (Fresh)<br>(P-1L)  | <input type="checkbox"/> Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W-TDS                                                                                                                                                      | <input type="checkbox"/> Ice                                                       |                                        |                          |                 |
| Physical/Aggregate (Marine)<br>(P-1L) | <input checked="" type="checkbox"/> Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY                                                                                                                                                                        | <input checked="" type="checkbox"/> Ice                                            |                                        | 1                        | B               |
| Macroinvertebrates<br>(PJ-2L)         | <input type="checkbox"/> MI-FW-QLDC                                                                                                                                                                                                                       | <input type="checkbox"/> Formalin                                                  |                                        |                          |                 |
| Periphyton<br>(PT-50ML)               | <input type="checkbox"/> ALGAE-ID                                                                                                                                                                                                                         | <input type="checkbox"/> Ice                                                       |                                        |                          |                 |
| Microbiology<br>(Contract Lab Bottle) | <input type="checkbox"/> E Coli <input type="checkbox"/> F Coli <input checked="" type="checkbox"/> Enterococci<br><input type="checkbox"/> Contract Lab                                                                                                  | <input checked="" type="checkbox"/> Ice                                            |                                        | 1                        | B               |
| Molecular<br>(QPCR-P-500ML)           | <input type="checkbox"/> PCR-HF183 <input type="checkbox"/> PCR-BacR <input type="checkbox"/> PCR-DG3<br><input type="checkbox"/> PCR-GULL2 <input type="checkbox"/> PCR-GFD                                                                              | <input type="checkbox"/> Ice                                                       |                                        |                          |                 |
| Tracers<br>(BG-500ML)                 | <input type="checkbox"/> W-E8321-DI <input type="checkbox"/> W-E8321-MS                                                                                                                                                                                   | <input type="checkbox"/> Ice                                                       |                                        |                          |                 |
| Pesticides<br>(BG-500ML) (BG-1L)      | <input type="checkbox"/> W-E8321-DI <input type="checkbox"/> W-E8321-MS <input type="checkbox"/> W-PSNP-TQ <input type="checkbox"/> W-CT-CL-R<br><input type="checkbox"/> W-PCL-SQ-R <input type="checkbox"/> W-CARB-AA ( 5 ml of MCAA** Buffer Solution) | <input type="checkbox"/> Ice                                                       |                                        |                          |                 |
|                                       |                                                                                                                                                                                                                                                           | <input type="checkbox"/> Ice                                                       |                                        |                          |                 |

Name:

Drew Liddick

Signature:

Drew Liddick

Date:

12/10/202012

\*2.0 ml of Preservative used unless noted otherwise.

\*\*MCAA: Monochloroacetic acid buffer solution



RQ-2020-10-19-23

Customer: WQAP

Project ID: SMP

Collected By: Drew Liddick

Field Report Prepared By: Drew Liddick

Sampling Agency: FDEP

Place Label Here

WIN ID/Field ID:



G4SE0127

Location: C-111 West

Comments:

Matrix: Fresh

(Check one)

☒ GRAB☐ COMPOSITE

| Date       | Time                        | DO (mg/L) | DO (%SAT) | Temp. (C°) | pH  | Sample Depth (m) | Secchi Disk (m)                         | Total Depth (m) | Sp COND (µmhos/cm) | Salinity (PPT) |
|------------|-----------------------------|-----------|-----------|------------|-----|------------------|-----------------------------------------|-----------------|--------------------|----------------|
| 12/10/2020 | <del>1320</del><br>EST 1330 | 1.88      | 21.9      | 23         | 7.8 | 0.3              | 0.9<br><input type="checkbox"/> VOB (S) | 3.2             | 472.7              | 0.23           |

Central Lab please use top row for login purposes

|  |                  |      |      |      |     |     |  |  |            |      |
|--|------------------|------|------|------|-----|-----|--|--|------------|------|
|  | ↑<br>1329<br>EST | 1.93 | 22.5 | 22.9 | 7.9 | 2.8 |  |  | ↑<br>473.3 | 0.23 |
|--|------------------|------|------|------|-----|-----|--|--|------------|------|

| Parameter Suite                    | Parameter Methods                                                                                                                                                                                                                                        | Preservation                                                                            | pH Check                               | # Bottles sent to Lab | Bottle Group |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------|-----------------------|--------------|
| Preserved Nutrients (P-500ML)      | <input checked="" type="checkbox"/> W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                                                                                                                                                          | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> H2SO4*      | <input checked="" type="checkbox"/> <2 | 1                     | A            |
|                                    | Lot # _____ Exp: _____                                                                                                                                                                                                                                   |                                                                                         |                                        |                       |              |
| Metals (P-500ML)                   | <input type="checkbox"/> W-ICPMS <input type="checkbox"/> W-ICP <input type="checkbox"/> W-HARD                                                                                                                                                          | <input type="checkbox"/> Ice <input type="checkbox"/> HNO3* <input type="checkbox"/> <2 |                                        |                       |              |
|                                    | Lot # _____ Exp: _____                                                                                                                                                                                                                                   |                                                                                         |                                        |                       |              |
| Filtered Nutrients (P125ML)        | <input checked="" type="checkbox"/> W-PO4-F <input checked="" type="checkbox"/> Field Filtered 0.45 µm Filter                                                                                                                                            | <input checked="" type="checkbox"/> Ice                                                 |                                        | 1                     | A            |
|                                    | Filter Lot # _____<br>Syringe Lot # _____                                                                                                                                                                                                                |                                                                                         |                                        |                       |              |
| Chlorophyll (BP-1L)                | <input checked="" type="checkbox"/> CHLSUITE-W                                                                                                                                                                                                           | <input checked="" type="checkbox"/> Ice                                                 |                                        | 1                     | A            |
| Physical/Aggregate (Fresh) (P-1L)  | <input checked="" type="checkbox"/> Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W-TDS                                                                                                                                          | <input checked="" type="checkbox"/> Ice                                                 |                                        | 1                     | A            |
| Physical/Aggregate (Marine) (P-1L) | <input type="checkbox"/> Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY                                                                                                                                                                                  | <input type="checkbox"/> Ice                                                            |                                        |                       |              |
| Macroinvertebrates (PJ-2L)         | <input type="checkbox"/> MI-FW-QLDC                                                                                                                                                                                                                      | <input type="checkbox"/> Formalin                                                       |                                        |                       |              |
| Periphyton (PT-50ML)               | <input type="checkbox"/> ALGAE-ID                                                                                                                                                                                                                        | <input type="checkbox"/> Ice                                                            |                                        |                       |              |
| Microbiology (Contract Lab Bottle) | <input checked="" type="checkbox"/> E Coli <input type="checkbox"/> F Coli <input type="checkbox"/> Enterococci<br><input type="checkbox"/> Contract Lab                                                                                                 | <input checked="" type="checkbox"/> Ice                                                 |                                        | 1                     | A            |
| Molecular (QPCR-P-500ML)           | <input type="checkbox"/> PCR-HF183 <input type="checkbox"/> PCR-BacR <input type="checkbox"/> PCR-DG3<br><input type="checkbox"/> PCR-GULL2 <input type="checkbox"/> PCR-GFD <input type="checkbox"/>                                                    | <input type="checkbox"/> Ice                                                            |                                        |                       |              |
| Tracers (BG-500ML)                 | <input type="checkbox"/> W-E8321-DI <input type="checkbox"/> W-E8321-MS                                                                                                                                                                                  | <input type="checkbox"/> Ice                                                            |                                        |                       |              |
| Pesticides (BG-500ML) (BG-1L)      | <input type="checkbox"/> W-E8321-DI <input type="checkbox"/> W-E8321-MS <input type="checkbox"/> W-PSNP-TQ <input type="checkbox"/> W-CT-CL-R<br><input type="checkbox"/> W-PCL-SQ-R <input type="checkbox"/> W-CARB-AA (5 ml of MCAA** Buffer Solution) | <input type="checkbox"/> Ice                                                            |                                        |                       |              |
|                                    |                                                                                                                                                                                                                                                          | <input type="checkbox"/> Ice                                                            |                                        |                       |              |

Name:  
Drew Liddick

Signature:

Drew Liddick

Date:

12/10/2020

\*2.0 ml of Preservative used unless noted otherwise.

\*\*MCAA: Monochloroacetic acid buffer solution



Date of Request: 21-SEP-2020  
 Created By: SKAGGS\_J On: 21-SEP-2020  
 Modified By: JASROTIA\_P On: 29-SEP-2020  
 Customer: SE-DIST  
 Project: SMP  
 Division: Division of Environmental Assessment and Restoration  
 District: Southeast District  
 Event Description: SMP- Miami 2020 3rd Trip

**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: 29-SEP-2020  
 Biology Request Reviewed By: JASROTIA\_P On: 29-SEP-2020  
 Sampling Kit Required: YES Ship on: 09-OCT-2020  
 Sampling Kit Shipped: YES On: 05-OCT-2020  
 Sampling Kit Packed By: SHAIK\_A  
 Preservatives Needed: NO  
 Date to Receive Samples: 21-OCT-2020  
 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:  
 Jordan.Skaggs@FloridaDEP.gov; Drew.Liddick@floridadep.gov

**Comments:**

Sampler Comments:  
 3301-Group A-G4SE0127  
 6002A-Group B-site x1, site x2  
 6002A-Group C-Field Blank @ site x1

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

|                             |                      |                                                                                                              |
|-----------------------------|----------------------|--------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-1L           | Number of Bottles: 1 | Preserved With: ICE                                                                                          |
| ALKALINITY                  | Template: DEFAULT    | (SM 2320 B-2011) Alkalinity in aqueous matrices as mg CaCO3/L                                                |
| TURBIDITY                   | Template: DEFAULT    | (EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices                                                           |
| W-CL-IC                     | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Chloride in aqueous matrices                                                            |
| W-COLOR                     | Template: DEFAULT    | (SM 2120 B-2011) 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-2011) Total Dissolved Solids in aqueous matrices                                                  |
| 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                                                                                          |
| ECOLI-18QT                  | Template: DEFAULT    | (SM 9223 Quanti-Tray) Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems     |
| Bottle Type: P-500ML        | Number of Bottles: 1 | Preserved With: ICE And H2SO4                                                                                |
| W-NH3                       | Template: DEFAULT    | (EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L                                                   |
| W-NO2NO3                    | Template: DEFAULT    | (EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L                                           |
| W-S-A-TP                    | Template: DEFAULT    | (EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L                                          |
| W-TKN                       | Template: DEFAULT    | (EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices                                             |
| W-TOC                       | Template: DEFAULT    | (SM 5310 B-2011) Nonpurgeable Organic Carbon in aqueous matrices                                             |
| Bottle Type: P-125ML        | Number of Bottles: 1 | Preserved With: FILTER-ICE                                                                                   |

**Bottle Group A (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 |

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

|                             |                      |                                                                                                                                                |
|-----------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-500ML        | Number of Bottles: 2 | Preserved With: ICE And H2SO4                                                                                                                  |
| W-NH3                       | Template: DEFAULT    | (EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L                                                                                     |
| W-NO2NO3                    | Template: DEFAULT    | (EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L                                                                             |
| W-S-A-TP                    | Template: DEFAULT    | (EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L                                                                            |
| W-TKN                       | Template: DEFAULT    | (EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices                                                                               |
| W-TOC                       | Template: DEFAULT    | (SM 5310 B-2011) Nonpurgeable Organic Carbon in aqueous matrices                                                                               |
| Bottle Type: P-125ML        | Number of Bottles: 2 | Preserved With: FILTER-ICE                                                                                                                     |
| W-PO4-F                     | Template: DEFAULT    | (EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L                                                       |
| Bottle Type: P-1L           | Number of Bottles: 2 | Preserved With: ICE                                                                                                                            |
| ALKALINITY                  | Template: DEFAULT    | (SM 2320 B-2011) Alkalinity in aqueous matrices as mg CaCO3/L                                                                                  |
| TURBIDITY                   | Template: DEFAULT    | (EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices                                                                                             |
| W-BR-IC                     | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Bromide 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: 2 | 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: 2 | Preserved With: ICE                                                                                                                            |
| ENT-24-QT                   | Template: DEFAULT    | (Enterolert/QT) Enterococci by Enterolert Quanti-Tray method - non-chlorinated water systems                                                   |
| Bottle Type: P-500ML        | Number of Bottles: 2 | Preserved With: HNO3                                                                                                                           |
| W-ICP                       | Template: S-METALS   | (EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects |
| Iron                        |                      |                                                                                                                                                |
| 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                     |                      |                                                                                                                                                |
| Cadmium                     |                      |                                                                                                                                                |
| Chromium                    |                      |                                                                                                                                                |
| Copper                      |                      |                                                                                                                                                |
| Lead                        |                      |                                                                                                                                                |
| Nickel                      |                      |                                                                                                                                                |
| Selenium                    |                      |                                                                                                                                                |
| Silver                      |                      |                                                                                                                                                |
| Thallium                    |                      |                                                                                                                                                |

**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-BR-IC              | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Bromide 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: HNO3                                                                                                                           |
| W-ICP                | Template: S-METALS   | (EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects |
| Iron                 |                      |                                                                                                                                                |
| Manganese            |                      |                                                                                                                                                |
| Zinc                 |                      |                                                                                                                                                |

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

|                      |                      |                                                                                                                             |
|----------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-500ML | Number of Bottles: 1 | Preserved With: HNO3                                                                                                        |
| 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  
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 |

