

# Login Checklist

RQ-2021-05-03-30

Login Station ID: #5

Shipping Method: RedEx | UPS | HD | Greyhound

Date/Time of Receipt: 5/12/21 @ 9:30

| *Cooler Temperature | Samples Frozen? | * All Samples in Cooler Preserved with |          | Number of Sample Containers in Cooler | Evidence Tape |    |          |    | Waybill Tracking # |
|---------------------|-----------------|----------------------------------------|----------|---------------------------------------|---------------|----|----------|----|--------------------|
|                     |                 |                                        |          |                                       | Present?      |    | *Intact? |    |                    |
|                     | YES             | HNO <sub>3</sub>                       | Formalin |                                       | Yes           | No | Yes      | No |                    |
| 1.6                 |                 |                                        |          | 10                                    |               | ✓  |          |    | 9293 8008 6895     |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |

## COOLER CHECK

\*All samples received on ice unless otherwise noted. HNO3 and Formalin preserved samples do NOT have a temperature requirement.

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

Chain of Custody/ Field Sheet(s) Included?

Yes ✓ 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: hkh

Chlorine detected? (One container checked per Field ID)

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

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

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

\*\*Acid Preserved Samples: pH < 2.0?

Yes ✓ No \_\_\_\_\_ NA \_\_\_\_\_ Init: hkh

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

Yes \_\_\_\_\_ No \_\_\_\_\_ NA ✓ Init: hkh

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

Coolers Unpacked/Checked by: hkh

Date: 5/12/21

Event contains NCRs (Y/N)? N

Event ID: Bmap 1 SMP 2021  
NE-DIST-2021-05-12-01 (SMP)

Date Received: 12-MAY-2021 09:30

## Login Checklist

### Login Preservation Equipment

### Lot # & Exp: Date

### Additional Comments:

|                          |                             |
|--------------------------|-----------------------------|
| Infrared Thermometer ID: | IR TEMP GUN #5 EXP:10-28-21 |
| pH Test Strips 0 – 6     | Lot#213116BV Exp:5-15-21    |
| pH Paper 0 – 3           |                             |
| pH Paper 0 – 13          | Lot#210620 EXP:4-15-23      |
| Chlorine Test Strips     | Lot#0261 EXP:5-23           |

### 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

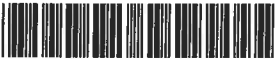
**Date:** 5/11/2021 **Collected By:** Jeremy Parrish, Brian Davis  
**Customer:** NE-DIST **Sampling Agency:** FDEP  
**RQ:** RQ-2021-05-03-30 **Project ID:** SMP

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

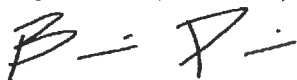
**Number of Coolers Shipped:** 1

**Delivery Method:** FedEx

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

| Site Location                               | Field ID/WIN ID                                                                                  |
|---------------------------------------------|--------------------------------------------------------------------------------------------------|
| CRAIG CR. 100m DOWN FROM FOOTBRIDGE IN PARK | <br>20030958   |
| BUTCHER PEN CR @ CONFEDERATE PT ROAD        | <br>20030082   |
| BUTCHER PEN CR AT WESCONNETT                | <br>20030760 |

RELINQUISHED BY(SIGNATURE):



DATE/TIME: 5/11/2021  
1600EST

**THIS SECTION TO BE COMPLETED BY LABORATORY**

Rec'd/Inspected By: hkh

Rec'd/Inspected Date: 5-12-21/0930

# CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly "X" this box if there are qualified data on this page.

Meter ID: YSI 5100

RQ: 2021-08-03-30

Project: BMAP SMP

- Notes: (1) Always wait for meter to stabilize before recording any readings.  
 (2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).  
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 2/15/21

| DO<br>DEP SOP<br>FT 1500 | Name         | Date    | Time<br>CT-ET | Temp<br>°C | Baro-<br>meter<br>mmHg | D.O.<br>Chart<br>mg/L | Meter<br>D.O.<br>mg/L | % DO  | Probe<br>Charge | Probe<br>Gain | Pass<br>/ Fail | Lab<br>/ Field |
|--------------------------|--------------|---------|---------------|------------|------------------------|-----------------------|-----------------------|-------|-----------------|---------------|----------------|----------------|
| Calibr.                  | Brian Davis  | 5/11/21 | 752           | 22.6       | 763.1                  | 8.7                   | —                     | 100.4 | —               | 1.02          | P/F            | L/F            |
| ICV                      |              |         | 753           | 22.4       | 763.1                  | 8.7                   | 8.72                  | 100.6 | —               | 1.02          | P/F            | L/F            |
| CCV                      | Jeremy Pansu | 5/11/21 | 1541          | 24.9       | 762                    | 8.2                   | 8.23                  | 99.5  | —               | —             | P/F            | L/F            |
| CCV                      |              |         |               |            |                        |                       |                       |       |                 |               | P/F            | L/F            |

DO Acceptance criteria from Table  $\pm 0.3$  mg/L.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

Optical: DO gain range 0.85 to 1.15 (Pro DSS 0.75 to 1.50); DO charge N/A. Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

| Spec.<br>Cond.<br>FT 1200 | Name         | Date    | Time<br>CT-ET | Lot #    | Expir.<br>Date | Standard<br>$\mu$ mhos/cm | Meter<br>Reading<br>$\mu$ mhos/cm | Pass<br>/ Fail | Lab<br>/ Field |
|---------------------------|--------------|---------|---------------|----------|----------------|---------------------------|-----------------------------------|----------------|----------------|
| Calibr.                   | Brian Davis  | 5/11/21 | 755           | 201222B  | 1/22           | 1000                      | 1000                              | P/F            | L/F            |
| ICV                       | J            | J       | 758           | 201222A  | 1/22           | 100                       | 103.7                             | P/F            | L/F            |
| CCV                       | Jeremy Pansu | 5/11/21 | 1542          | 21040260 | 5/22           | 20000                     | 19935                             | P/F            | L/F            |
| CCV                       |              |         |               |          |                |                           |                                   | P/F            | L/F            |

Conductivity Acceptance criteria  $\pm 5\%$

| pH<br>DEP SOP<br>FT 1100 | Name        | Date    | Time<br>CT-ET | Lot #   | Expir.<br>Date | pH<br>Buffer<br>SU | Temp<br>°C | Meter<br>reading<br>SU | mV     | Pass<br>/ Fail | Lab<br>/ Field |
|--------------------------|-------------|---------|---------------|---------|----------------|--------------------|------------|------------------------|--------|----------------|----------------|
| Calibr.                  | Brian Davis | 5/11/21 | 803           | 2010F27 | 10/22          | 7.00               | 24.6       | 7.01                   | -21.5  | P/F            | L/F            |
| Calibr.                  |             |         | 808           | 2010C31 | 9/22           | 4.00               | 24.6       | 4.00                   | 157.4  | P/F            | L/F            |
| Calibr.                  | J           | J       | 810           | 2012797 | 5/22           | 10.01              | 24.2       | 10.01                  | -194.2 | P/F            | L/F            |
| ICV                      | J           | J       | 815           | 2010F27 | 10/22          | 7.00               | 24.4       | 7.00                   | -21.2  | P/F            | L/F            |
| CCV                      | J           | J       | 1545          | 2012797 | 5/22           | 10.00              | 25.0       | 10.06                  | -198.1 | P/F            | L/F            |
| CCV                      |             |         |               |         |                |                    |            |                        |        | P/F            | L/F            |

pH Acceptance criteria  $\pm 0.2$  SU; mV pH 7 Range  $0 \pm 50$ ; mV pH 4 Range  $+180 \pm 50$ ; mV pH 10 Range  $-180 \pm 50$ ;

If mV are recorded: slope from 7 to 10 \_\_\_\_\_, slope from 4 to 7 \_\_\_\_\_ (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: \_\_\_\_\_

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: \_\_\_\_\_; Date of last verification: \_\_\_\_\_

| Depth Sensor<br>(Daily Calibration &<br>ICV) | Name        | Date    | Time<br>CT-ET | Calibrated<br>Value (0.00 or<br>Offset), meters | ICV Value,<br>meters | Pass /<br>Fail | Lab /<br>Field |
|----------------------------------------------|-------------|---------|---------------|-------------------------------------------------|----------------------|----------------|----------------|
| Pressure mode in air                         | Brian Davis | 5/11/21 | 816           | 0.00                                            | 0.00                 | P/F            | L/F            |

Report two decimal places. Round numbers  $\leq 4$  down,  $\geq 5$  up. ICV acceptance criteria  $\pm 5\%$  or  $\pm 0.05$ m, whichever is greater.

COMMENTS:



# FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End  
of Day CCV  
Yes / No

WIN Station Name: BUTCHER PEN CR @ CONFEDERATE PT ROAD

Date: 5/11/2021

WIN/Field ID: 20030082

WBID: 2322

ENR: -

Latitude: 30.2646

County: DUVAL

Org ID: 21FLA

Longitude: -81.73

Receiving Body of Water: Lower St. Johns

RQ: 2021-05-03-30

| Sampling Team Members               |                | WQ Measurements | Sample Collection | Documentation | Preservation | Preservation Check |
|-------------------------------------|----------------|-----------------|-------------------|---------------|--------------|--------------------|
| <input checked="" type="checkbox"/> | Jeremy Parrish |                 | x                 |               | x            | x                  |
| <input checked="" type="checkbox"/> | Brian Davis    |                 | x                 | x             |              |                    |
| <input type="checkbox"/>            |                |                 |                   |               |              |                    |
| <input type="checkbox"/>            |                |                 |                   |               |              |                    |

| Sampling Equipment                                   |                                          |
|------------------------------------------------------|------------------------------------------|
| <input checked="" type="checkbox"/> Sample Container | <input type="checkbox"/> Carboy          |
| <input type="checkbox"/> Dipper                      | <input type="checkbox"/> Van Dorn        |
| <input type="checkbox"/> Syringe                     | <input checked="" type="checkbox"/> Pole |
| Depth measured with: Meter                           |                                          |
| Secchi Equipment ID:                                 |                                          |
| Collection Method                                    |                                          |
| <input type="checkbox"/> Wading                      | <input type="checkbox"/> Canoe/Kayak     |
| <input checked="" type="checkbox"/> From Shore       | <input type="checkbox"/> Electric Motor  |
| <input type="checkbox"/> Other                       | <input type="checkbox"/> Gasoline Motor  |

|                                                                                                                                                                                                                                                                 |            |                  |                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------|-----------------------------|
| Water Level: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Low <input type="checkbox"/> High <input type="checkbox"/> Dry <input type="checkbox"/> Pooled <input type="checkbox"/> Flooded                                                |            | Meter ID# STITCH |                             |
| Photos: YES                                                                                                                                                                                                                                                     | Flow: FLOW | Tide: FALLING    | Tide Times: High: 1130 Low: |
| Biological Samples Collected: <input checked="" type="checkbox"/> None <input type="checkbox"/> HA <input type="checkbox"/> SCI <input type="checkbox"/> RPS <input type="checkbox"/> Algae ID <input type="checkbox"/> LVS <input type="checkbox"/> LVI Other: |            |                  |                             |
| SBIO ID Numbers:                                                                                                                                                                                                                                                |            |                  |                             |
| Notes:                                                                                                                                                                                                                                                          |            |                  |                             |

## Duplicate Sample

|                      |       |               |              |
|----------------------|-------|---------------|--------------|
| Time Zone: EST       | Time: | Field ID: N/A | (WIN ID_DUP) |
| WIN DMT Activity ID: |       |               |              |

## Blank

|                         |                    |           |                       |
|-------------------------|--------------------|-----------|-----------------------|
| Time Zone:              | Time:              | Field ID: | (Blank Type_DDMMYYYY) |
| DI Source:              | Location:          |           |                       |
| DI Type:                | Equipment ID:      |           |                       |
| DI Container (Name/ID): | DI Container Type: |           |                       |

|                                                        |                                              |                     |
|--------------------------------------------------------|----------------------------------------------|---------------------|
| LIMS EVENT ID:                                         | WIN Import ID:                               |                     |
| Enter Field Parameters, Verify Station ID In LIMS DMT: | QC Station ID, Field Parameters In LIMS DMT: |                     |
| (Initials/Date)                                        | (Initials/Date)                              |                     |
| Scan/Save Field Sheets BD 5/11/21                      | Migrate Data to WIN:                         | Verify Data In WIN: |
| (Initials/Date)                                        | (Initials/Date)                              | (Initials/Date)     |



RQ-2021-05-03-30

Customer: WQAP

Project ID: SMP

Collected By: Jeremy Parrish, Brian Davis

Field Report Prepared By: Jeremy Parrish

Sampling Agency: FDEP

| Place Label Here                                                                                               |             |                                                                                                                                                                              |           |            |      | Comments:                                                                                      |                                                    |                                        |                       |                |
|----------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|------|------------------------------------------------------------------------------------------------|----------------------------------------------------|----------------------------------------|-----------------------|----------------|
| WIN ID/Field ID: <br>20030082 |             |                                                                                                                                                                              |           |            |      |                                                                                                |                                                    |                                        |                       |                |
| Location: BUTCHER PEN CR @ CONFEDERATE PT ROAD                                                                 |             |                                                                                                                                                                              |           |            |      |                                                                                                |                                                    |                                        |                       |                |
| Matrix: Fresh                                                                                                  |             |                                                                                                                                                                              |           |            |      | (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 (PPT) |
| 5/11/2021                                                                                                      | 1430<br>EST | 8.79                                                                                                                                                                         | 111.9     | 27.4       | 7.74 | 0.2                                                                                            | 0.4<br><input checked="" type="checkbox"/> VOB (S) | 0.4                                    | 2592                  | 1.33           |
|                                                                                                                |             |                                                                                                                                                                              |           |            |      |                                                                                                | 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<br>Lot # SA0353110 Exp: 01/11/22                                                             |           |            |      | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> H2SO4*             |                                                    | <input checked="" type="checkbox"/> <2 | 1                     | B              |
| Metals (P-500ML)                                                                                               |             | <input type="checkbox"/> W-ICPMS <input type="checkbox"/> W-ICP <input type="checkbox"/> W-HARD<br>Lot # Exp:                                                                |           |            |      | <input type="checkbox"/> Ice <input type="checkbox"/> HNO3*                                    |                                                    | <input type="checkbox"/> <2            |                       |                |
| Filtered Nutrients (P125ML)                                                                                    |             | <input checked="" type="checkbox"/> W-PO4-F <input checked="" type="checkbox"/> Field Filtered 0.45 µm Filter<br>Filter Lot # R0NB35407<br>Syringe Lot #                     |           |            |      | <input checked="" type="checkbox"/> Ice                                                        |                                                    |                                        | 1                     | B              |
| Chlorophyll (BP-1L)                                                                                            |             | <input checked="" type="checkbox"/> CHLSUITE-W                                                                                                                               |           |            |      | <input checked="" type="checkbox"/> Ice                                                        |                                                    |                                        | 1                     | B              |
| 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                     | B              |
| 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 type="checkbox"/> E Coli <input type="checkbox"/> F Coli <input type="checkbox"/> Enterococci<br><input type="checkbox"/> Contract Lab                                |           |            |      | <input type="checkbox"/> Ice                                                                   |                                                    |                                        |                       |                |
| 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"/> 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)                                                                                  |             | W-E8321-DI WE8321-MS W-PSNP-TQ W-CT-CL-R<br>W-PCL-SQ-R W-CARB-AA (5 ml of MCAA** Buffer Solution) W-DIELDRIN                                                                 |           |            |      | <input type="checkbox"/> Ice                                                                   |                                                    |                                        |                       |                |
| Phytoplankton/Periphyton                                                                                       |             | DTM-QL-C PEN-QL-C DTY-QN-C PKD-QN-C<br>DTM-QN-C PRN-QN-C                                                                                                                     |           |            |      | <input type="checkbox"/> Ice                                                                   |                                                    |                                        |                       |                |
| Name: Jeremy Parrish<br>Brian Davis                                                                            |             |                                                                                                                                                                              |           |            |      | Signature:  |                                                    |                                        | Date: 5/11/21         |                |

\*2.0 ml of Preservative used unless noted otherwise.

\*\*MCAA: Monochloroacetic acid buffer solution



# FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End  
of Day CCV  
Yes / No

WIN Station Name: BUTCHER PEN CR AT WESCONNETT

Date: 5/11/2021

WIN/Field ID: 20030760

WBID: 2322

ENR: -

Latitude: 30.2598

County: DUVAL

Org ID: 21FLA

Longitude: -81.74

Receiving Body of Water: Lower St. Johns

RQ- 2021-05-03-30

| Sampling Team Members               |                | WQ Measurements | Sample Collection | Documentation | Preservation | Preservation Check |
|-------------------------------------|----------------|-----------------|-------------------|---------------|--------------|--------------------|
| <input checked="" type="checkbox"/> | Jeremy Parrish |                 | x                 |               | x            | x                  |
| <input checked="" type="checkbox"/> | Brian Davis    |                 | x                 |               | x            |                    |
| <input type="checkbox"/>            |                |                 |                   |               |              |                    |
| <input type="checkbox"/>            |                |                 |                   |               |              |                    |

| Sampling Equipment                                   |                                          |
|------------------------------------------------------|------------------------------------------|
| <input checked="" type="checkbox"/> Sample Container | <input type="checkbox"/> Carboy          |
| <input type="checkbox"/> Dipper                      | <input type="checkbox"/> Van Dorn        |
| <input type="checkbox"/> Syringe                     | <input checked="" type="checkbox"/> Pole |
| Depth measured with: Meter                           |                                          |
| Secchi Equipment ID:                                 |                                          |
| Collection Method                                    |                                          |
| <input type="checkbox"/> Wading                      | <input type="checkbox"/> Canoe/Kayak     |
| <input checked="" type="checkbox"/> From Shore       | <input type="checkbox"/> Electric Motor  |
| <input type="checkbox"/> Other                       | <input type="checkbox"/> Gasoline Motor  |

|                                                                                                                                                                                                                  |  |                                          |                             |                              |                              |                                   |                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------|-----------------------------|------------------------------|------------------------------|-----------------------------------|------------------------------------------------------------------|
| Water Level: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Low <input type="checkbox"/> High <input type="checkbox"/> Dry <input type="checkbox"/> Pooled <input type="checkbox"/> Flooded |  |                                          |                             |                              |                              | Meter ID# STITCH                  |                                                                  |
| Photos: YES                                                                                                                                                                                                      |  | Flow: FLOW                               |                             | Tide: SLACK                  |                              | Tide Times: High: 1130 Low:       |                                                                  |
| Biological Samples Collected:                                                                                                                                                                                    |  | <input checked="" type="checkbox"/> None | <input type="checkbox"/> HA | <input type="checkbox"/> SCI | <input type="checkbox"/> RPS | <input type="checkbox"/> Algae ID | <input type="checkbox"/> LVS <input type="checkbox"/> LVI Other: |
| SBIO ID Numbers:                                                                                                                                                                                                 |  |                                          |                             |                              |                              |                                   |                                                                  |
| Notes:                                                                                                                                                                                                           |  |                                          |                             |                              |                              |                                   |                                                                  |

## Duplicate Sample

|                      |       |               |              |
|----------------------|-------|---------------|--------------|
| Time Zone: EST       | Time: | Field ID: N/A | (WIN ID_DUP) |
| WIN DMT Activity ID: |       |               |              |

## Blank

|                         |               |                    |                       |
|-------------------------|---------------|--------------------|-----------------------|
| Time Zone:              | Time:         | Field ID:          | (Blank Type_DDMMYYYY) |
| DI Source:              | Location:     |                    |                       |
| DI Type:                | Equipment ID: |                    |                       |
| DI Container (Name/ID): |               | DI Container Type: |                       |

LIMS EVENT ID: WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT: (Initials/Date) QC Station ID, Field Parameters In LIMS DMT: (Initials/Date)

Scan/Save Field Sheets BD 5/11/21 Migrate Data to WIN: (Initials/Date) Verify Data In WIN: (Initials/Date)



RQ-2021-05-03-30

Customer: WQAP

Project ID: SMP

Collected By: Jeremy Parrish, Brian Davis

Field Report Prepared By: Jeremy Parrish

Sampling Agency: FDEP

| Place Label Here                                                                                               |             |                                                                                                                                                                                                       |           |            |      | Comments:                                                                                      |                                                   |                                        |                       |                |
|----------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|------|------------------------------------------------------------------------------------------------|---------------------------------------------------|----------------------------------------|-----------------------|----------------|
| WIN ID/Field ID: <br>20030760 |             |                                                                                                                                                                                                       |           |            |      |                                                                                                |                                                   |                                        |                       |                |
| Location: BUTCHER PEN CR AT WESCONNETT                                                                         |             |                                                                                                                                                                                                       |           |            |      |                                                                                                |                                                   |                                        |                       |                |
| Matrix: Fresh                                                                                                  |             |                                                                                                                                                                                                       |           |            |      | (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 (PPT) |
| 5/11/2021                                                                                                      | 1455<br>EST | 0.86                                                                                                                                                                                                  | 9.9       | 22.4       | 7.31 | 0.3                                                                                            | 0.7<br><input type="checkbox"/> VOB (S)           | 0.9                                    | 354.5                 | 0.17           |
|                                                                                                                | EST         |                                                                                                                                                                                                       |           |            |      |                                                                                                | Central Lab please use top row for login purposes |                                        |                       |                |
| Parameter Suite                                                                                                |             | Parameter Methods                                                                                                                                                                                     |           |            |      | Preservation                                                                                   |                                                   | pH Check                               | # Bottles sent to Lab | Bottle Group   |
| Preserved Nutrients (P-500ML)                                                                                  |             | <input type="checkbox"/> W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                                                                                                                  |           |            |      | <input type="checkbox"/> Ice <input type="checkbox"/> H2SO4*                                   |                                                   | <input type="checkbox"/> <2            |                       |                |
|                                                                                                                |             | Lot #                                                                                                                                                                                                 |           |            | Exp: |                                                                                                |                                                   |                                        |                       |                |
| 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                     | C              |
|                                                                                                                |             | Lot #                                                                                                                                                                                                 | NA0344060 |            | Exp: | 01/04/22                                                                                       |                                                   |                                        |                       |                |
| Filtered Nutrients (P125ML)                                                                                    |             | <input type="checkbox"/> W-PO4-F <input type="checkbox"/> Field Filtered 0.45 µm Filter                                                                                                               |           |            |      | <input type="checkbox"/> Ice                                                                   |                                                   |                                        |                       |                |
|                                                                                                                |             | Filter Lot #                                                                                                                                                                                          |           |            |      |                                                                                                |                                                   |                                        |                       |                |
|                                                                                                                |             | Syringe Lot #                                                                                                                                                                                         |           |            |      |                                                                                                |                                                   |                                        |                       |                |
| Chlorophyll (BP-1L)                                                                                            |             | <input type="checkbox"/> CHLSUITE-W                                                                                                                                                                   |           |            |      | <input type="checkbox"/> Ice                                                                   |                                                   |                                        |                       |                |
| Physical/Aggregate (Fresh) (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) (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 type="checkbox"/> E Coli <input type="checkbox"/> F Coli <input type="checkbox"/> Enterococci<br><input type="checkbox"/> Contract Lab                                                         |           |            |      | <input type="checkbox"/> Ice                                                                   |                                                   |                                        |                       |                |
| 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)                                                                                  |             | W-E8321-DI W-E8321-MS W-PSNP-TQ W-CT-CL-R<br>W-PCL-SQ-R W-CARB-AA (5 ml of MCAA** Buffer Solution) W-DIELDRIN                                                                                         |           |            |      | <input type="checkbox"/> Ice                                                                   |                                                   |                                        |                       |                |
| Phytoplankton/Periphyton                                                                                       |             | DTM-QL-C PEN-QL-C DTY-QN-C PKD-QN-C<br>DTM-QN-C PRN-QN-C                                                                                                                                              |           |            |      | <input type="checkbox"/> Ice                                                                   |                                                   |                                        |                       |                |
| Name: Jeremy Parrish<br>Brian Davis                                                                            |             |                                                                                                                                                                                                       |           |            |      | Signature:  |                                                   |                                        | Date: 5/11/21         |                |

\*2.0 ml of Preservative used unless noted otherwise.

\*\*MCAA: Monochloroacetic acid buffer solution



# FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End  
of Day CCV  
Yes / No

WIN Station Name: CRAIG CR. 100m DOWN FROM FOOTBRIDGE IN PARK

Date: 5/11/2021

WIN/Field ID: 20030958

WBID: 2297B

ENR: nonENR

Latitude: 30.2952

County: DUVAL

Org ID: 21FLA

Longitude: -81.65

Receiving Body of Water: Lower St. Johns

RQ: 2021-05-03-30

| Sampling Team Members               |                | WQ Measurements | Sample Collection | Documentation | Preservation | Preservation Check |
|-------------------------------------|----------------|-----------------|-------------------|---------------|--------------|--------------------|
| <input checked="" type="checkbox"/> | Jeremy Parrish |                 | x                 |               | x            | x                  |
| <input checked="" type="checkbox"/> | Brian Davis    |                 | x                 |               | x            |                    |
| <input type="checkbox"/>            |                |                 |                   |               |              |                    |
| <input type="checkbox"/>            |                |                 |                   |               |              |                    |

| Sampling Equipment                                   |                                          |
|------------------------------------------------------|------------------------------------------|
| <input checked="" type="checkbox"/> Sample Container | <input type="checkbox"/> Carboy          |
| <input type="checkbox"/> Dipper                      | <input type="checkbox"/> Van Dorn        |
| <input type="checkbox"/> Syringe                     | <input checked="" type="checkbox"/> Pole |
| Depth measured with: Meter                           |                                          |
| Secchi Equipment ID:                                 |                                          |
| Collection Method                                    |                                          |
| <input type="checkbox"/> Wading                      | <input type="checkbox"/> Canoe/Kayak     |
| <input checked="" type="checkbox"/> From Shore       | <input type="checkbox"/> Electric Motor  |
| <input type="checkbox"/> Other                       | <input type="checkbox"/> Gasoline Motor  |

|                                                                                                                                                                                                                                                                 |            |                  |                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------|-----------------------------|
| Water Level: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Low <input type="checkbox"/> High <input type="checkbox"/> Dry <input type="checkbox"/> Pooled <input type="checkbox"/> Flooded                                                |            | Meter ID# STITCH |                             |
| Photos: No                                                                                                                                                                                                                                                      | Flow: FLOW | Tide: FALLING    | Tide Times: High: 1130 Low: |
| Biological Samples Collected: <input checked="" type="checkbox"/> None <input type="checkbox"/> HA <input type="checkbox"/> SCI <input type="checkbox"/> RPS <input type="checkbox"/> Algae ID <input type="checkbox"/> LVS <input type="checkbox"/> LVI Other: |            |                  |                             |
| SBIO ID Numbers:                                                                                                                                                                                                                                                |            |                  |                             |
| Notes:                                                                                                                                                                                                                                                          |            |                  |                             |

## Duplicate Sample

|                      |       |               |              |
|----------------------|-------|---------------|--------------|
| Time Zone: EST       | Time: | Field ID: N/A | (WIN ID_DUP) |
| WIN DMT Activity ID: |       |               |              |

## Blank

|                         |                    |           |                        |
|-------------------------|--------------------|-----------|------------------------|
| Time Zone:              | Time:              | Field ID: | (Blank Type_DDDMMYYYY) |
| DI Source:              | Location:          |           |                        |
| DI Type:                | Equipment ID:      |           |                        |
| DI Container (Name/ID): | DI Container Type: |           |                        |

LIMS EVENT ID: WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT: QC Station ID, Field Parameters In LIMS DMT:

Scan/Save Field Sheets BD 5/11/21 Migrate Data to WIN: Verify Data In WIN:



RQ-2021-05-03-30

Customer: WQAP

Project ID: SMP

Collected By: Jeremy Parrish, Brian Davis

Field Report Prepared By: Jeremy Parrish

Sampling Agency: FDEP

| Place Label Here                                                                                               |             |                                                                                                                                                                                                       |           |            |      | Comments:                                                                                      |                                                   |                                        |                       |                |
|----------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|------|------------------------------------------------------------------------------------------------|---------------------------------------------------|----------------------------------------|-----------------------|----------------|
| WIN ID/Field ID: <br>20030958 |             |                                                                                                                                                                                                       |           |            |      |                                                                                                |                                                   |                                        |                       |                |
| Location: CRAIG CR. 100m DOWN FROM FOOTBRIDGE IN PARK                                                          |             |                                                                                                                                                                                                       |           |            |      |                                                                                                |                                                   |                                        |                       |                |
| Matrix: Fresh                                                                                                  |             |                                                                                                                                                                                                       |           |            |      | (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 (PPT) |
| 5/11/2021                                                                                                      | 1350<br>EST | 2.19                                                                                                                                                                                                  | 26.4      | 25.1       | 7.25 | 0.3                                                                                            | 0.7<br><input type="checkbox"/> VOB (S)           | 0.8                                    | 3904                  | 2.06           |
|                                                                                                                |             |                                                                                                                                                                                                       |           |            |      |                                                                                                | 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                     | A              |
|                                                                                                                |             | Lot #                                                                                                                                                                                                 | SA0293040 |            | Exp: | 10/19/21                                                                                       |                                                   |                                        |                       |                |
| 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                     | A              |
|                                                                                                                |             | Lot #                                                                                                                                                                                                 | NA0344060 |            | Exp: | 01/04/22                                                                                       |                                                   |                                        |                       |                |
| 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 #                                                                                                                                                                                          | RON835407 |            |      |                                                                                                |                                                   |                                        |                       |                |
|                                                                                                                |             | Syringe Lot #                                                                                                                                                                                         |           |            |      |                                                                                                |                                                   |                                        |                       |                |
| Chlorophyll (BP-1L)                                                                                            |             | <input checked="" type="checkbox"/> CHLSUITE-W                                                                                                                                                        |           |            |      | <input checked="" type="checkbox"/> Ice                                                        |                                                   |                                        | 1                     | A              |
| Physical/Aggregate (Fresh) (P-1L)                                                                              |             | <input type="checkbox"/> Alkalinity / W-F / W-TSS / TURBIDITY / W-CH-IC / 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                     | A              |
| 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 type="checkbox"/> Enterococci<br><input type="checkbox"/> Contract Lab                                                         |           |            |      | <input type="checkbox"/> Ice                                                                   |                                                   |                                        |                       |                |
| 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)                                                                                  |             | W-E8321-DI W-E8321-MS W-PSNP-TQ W-CT-CL-R<br>W-PCL-SQ-R W-CAR8-AA (5 ml of MCAA** Buffer Solution) W-DIELDIN                                                                                          |           |            |      | <input type="checkbox"/> Ice                                                                   |                                                   |                                        |                       |                |
| Phytoplankton/Periphyton                                                                                       |             | DTM-QL-C PEN-QL-C DTY-QN-C PKD-QN-C<br>DTM-QN-C PRN-QN-C                                                                                                                                              |           |            |      | <input type="checkbox"/> Ice                                                                   |                                                   |                                        |                       |                |
| Name: Jeremy Parrish<br>Brian Davis                                                                            |             |                                                                                                                                                                                                       |           |            |      | Signature:  |                                                   |                                        | Date: 5/11/21         |                |

\*2.0 ml of Preservative used unless noted otherwise.

\*\*MCAA: Monochloroacetic acid buffer solution

Date of Request: 06-APR-2021  
 Created By: PARRISH\_J On: 06-APR-2021  
 Modified By: JASROTIA\_P On: 07-APR-2021  
 Customer: NE-DIST  
 Project: SMP  
 Division: Division of Environmental Assessment and Restoration  
 District: Northeast District  
 Event Description: Bmap 1 SMP 2021

**Send Coolers To:**

Phone: 904-807-3300  
 8800 Baymeadows Way West  
 Suite 100  
 Jacksonville, FL 32256  
 Attn: Jeremy Parrish  
 Cooler Ship EMail: Jeremy.M.Parrish@dep.state.fl.us

Priority: 3  
 Event Status: S  
 Criminal Investigation: NO  
 Chemistry Request Reviewed By: WATTS\_J On: 06-APR-2021  
 Biology Request Reviewed By: JASROTIA\_P On: 07-APR-2021  
 Sampling Kit Required: YES Ship on: 23-APR-2021  
 Sampling Kit Shipped: YES On: 21-APR-2021  
 Sampling Kit Packed By: MCCOY\_I  
 Preservatives Needed: NO  
 Date to Receive Samples: 03-MAY-2021  
 Logged In By:

**Send Final Report To:**

8800 Baymeadows Way West  
 Suite 100  
 Jacksonville, FL 32256  
 Attn: Jeremy Parrish  
 Report Notification EMail: Jeremy.M.Parrish@dep.state.fl.us

Comments: Group A: (Surf-Salt) Nutrients, Metals  
 Group B:(Surf-Fresh) Nutrient  
 Group C:(Surf-fresh) Metals

Packing Notes:  
 None

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

|                      |                      |                                                                                                                                                |
|----------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-1L    | Number of Bottles: 1 | Preserved With: ICE                                                                                                                            |
| ALKALINITY           | Template: DEFAULT    | (SM 2320 B-2011) Alkalinity in aqueous matrices as mg CaCO <sub>3</sub> /L                                                                     |
| TURBIDITY            | Template: DEFAULT    | (EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices                                                                                             |
| W-F                  | Template: DEFAULT    | (SM 4500 F-C-2011) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)                                         |
| W-TSS                | Template: DEFAULT    | (SM 2540 D-2011) Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample                                                |
| Bottle Type: BP-1L   | Number of Bottles: 1 | Preserved With: ICE                                                                                                                            |
| CHLSUITE-W           | Template: DEFAULT    | (SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry                                   |
| Bottle Type: P-500ML | Number of Bottles: 1 | Preserved With: HNO <sub>3</sub>                                                                                                               |
| W-ICP                | Template:            | (EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects |
| Calcium              |                      |                                                                                                                                                |
| Iron                 |                      |                                                                                                                                                |
| Magnesium            |                      |                                                                                                                                                |
| Manganese            |                      |                                                                                                                                                |
| Zinc                 |                      |                                                                                                                                                |
| W-ICPMS              | Template:            | (EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects                    |
| Aluminum             |                      |                                                                                                                                                |
| Antimony             |                      |                                                                                                                                                |
| Arsenic              |                      |                                                                                                                                                |
| Beryllium            |                      |                                                                                                                                                |
| Cadmium              |                      |                                                                                                                                                |
| Chromium             |                      |                                                                                                                                                |

**Bottle Group A (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 |
| Copper               |                      |                                                                                                                             |
| Lead                 |                      |                                                                                                                             |
| Nickel               |                      |                                                                                                                             |
| Selenium             |                      |                                                                                                                             |
| Silver               |                      |                                                                                                                             |
| Thallium             |                      |                                                                                                                             |

|                      |                      |                                                                                          |
|----------------------|----------------------|------------------------------------------------------------------------------------------|
| Bottle Type: P-500ML | Number of Bottles: 1 | Preserved With: ICE And H2SO4                                                            |
| W-NH3                | Template: DEFAULT    | (EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L                               |
| W-NO2NO3             | Template: DEFAULT    | (EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L                       |
| W-S-A-TP             | Template: DEFAULT    | (EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L                      |
| W-TKN                | Template: DEFAULT    | (EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices                         |
| W-TOC                | Template: DEFAULT    | (SM 5310 B-2011) Nonpurgeable Organic Carbon in aqueous matrices                         |
| Bottle Type: P-125ML | Number of Bottles: 1 | Preserved With: FILTER-ICE                                                               |
| W-PO4-F              | Template: DEFAULT    | (EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L |

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

|                   |                      |                                                                                                        |
|-------------------|----------------------|--------------------------------------------------------------------------------------------------------|
| Bottle Type: P-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-500ML | Number of Bottles: 1 | Preserved With: ICE And H2SO4                                                            |
| W-NH3                | Template: DEFAULT    | (EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L                               |
| W-NO2NO3             | Template: DEFAULT    | (EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L                       |
| W-S-A-TP             | Template: DEFAULT    | (EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L                      |
| W-TKN                | Template: DEFAULT    | (EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices                         |
| W-TOC                | Template: DEFAULT    | (SM 5310 B-2011) Nonpurgeable Organic Carbon in aqueous matrices                         |
| Bottle Type: P-125ML | Number of Bottles: 1 | Preserved With: FILTER-ICE                                                               |
| W-PO4-F              | Template: DEFAULT    | (EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L |

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

|                      |                      |                                                                                                                                                |
|----------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-500ML | Number of Bottles: 1 | Preserved With: HNO3                                                                                                                           |
| W-HARD               | Template: DEFAULT    | (SM 2340B) Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3                                                                |
| Hardness             |                      |                                                                                                                                                |
| W-ICP                | Template:            | (EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects |
| Barium               |                      |                                                                                                                                                |
| Calcium              |                      |                                                                                                                                                |
| Iron                 |                      |                                                                                                                                                |
| Magnesium            |                      |                                                                                                                                                |
| Manganese            |                      |                                                                                                                                                |
| Potassium            |                      |                                                                                                                                                |
| Sodium               |                      |                                                                                                                                                |
| 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                    |
| *Boron               |                      |                                                                                                                                                |
| Aluminum             |                      |                                                                                                                                                |
| Antimony             |                      |                                                                                                                                                |

**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

Arsenic

Beryllium

Cadmium

Chromium

Copper

Lead

Nickel

Selenium

Silver

Thallium

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