

# Login Checklist

RQ- **2022 - 07 - 25 - 45**

Login Station ID: **# 3**

Shipping Method: FedEx | UPS | HD | Greyhound

Date/Time of Receipt: **07/29/2022 / 09:30**

| *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 |                    |
| 1.5C                |                 |                                        |          | 10                                    |               | X  |          |    | 5225 5548 9997     |
| 2.5C                |                 |                                        |          | 9                                     |               | x  |          |    | 5225 5549 0008     |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |

## COOLER CHECK

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

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

Chain of Custody/ Field Sheet(s) Included?

Yes **X** No         
**ABS**

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

Yes **X** No ~~///~~

## CONTAINER CHECK

Evidence Tape on Bottles?

Yes        No        NA **X**

Evidence Tape intact? Yes        No       

If Criminal, photographs taken?

Yes        No       

Containers intact? Yes **X** No       

Caps on tight?

Yes **X** No       

Sufficient Sample Volume:

Yes **X** No       

If **NO** is checked above, generate an NCR listing affected sample IDs in its appropriate category. **NCR#** \_\_\_\_\_

**CHLORINE CHECK REQUIRED?** (Blue dot on container)

Yes **X** No        Init: **ABS /**

Chlorine detected? (One container checked per Field ID)

Yes        No **X** Init: **ABS /**

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

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

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

Yes **X** No        NA        Init: **ABS /**

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

Yes        No        NA **X** Init: **ABS /**

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

Coolers Unpacked/Checked by: **ABS /**

Date: **07/29/2022**

Event contains NCRs (Y/N)? **N**

Event ID:

**NW - DIST - 2022 - 07 - 29 - 0**

## Login Checklist

Login Preservation Equipment

Lot # & Exp: Date

Additional Comments:

|                          |                                         |
|--------------------------|-----------------------------------------|
| Infrared Thermometer ID: | IRTG # 3 EXP:10/19/2022                 |
| pH Test Strips 0 – 6     | LOT#223819AV EXP:8/30/2023              |
| pH Paper 0 – 3           | N/A                                     |
| pH Paper 0 – 13          | LOT 207621 EXP:3/15/2024                |
| Chlorine Test Strips     | 0264/11/2023/05 abs<br>0070 / 2023 / 02 |

### ENCORE SAMPLES

**S-VOC-MS samples in Encores must be frozen within 48 hours of collection.**

Were Encore samples received? Yes \_\_\_\_\_ Init: ABS

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:** 7/28/2022      **Collected By:** Lauren McNally, Brook Olin  
**Customer:** NW-DIST      **Sampling Agency:** FDEP  
**RQ:** RQ-2022-07-25-45      **Project ID:** SMP

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

**Number of Coolers Shipped:** 2

**Delivery Method:** FedEx

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

| Site Location          | Field ID/WIN ID                                                                                  |
|------------------------|--------------------------------------------------------------------------------------------------|
| Twin Lake south lobe   | <br>G3NW0448   |
| Twin Lake              | <br>G3NW0215   |
| Kell-Aire Lake         | <br>G3NW0217 |
| Coleman Lake           | <br>G3NW0216 |
| Twin Lake eastern lake | <br>G3NW0449 |

RELINQUISHED BY(SIGNATURE):

*L. McNally*

DATE/TIME: 7/28/2022

1630 CEN

**THIS SECTION TO BE COMPLETED BY LABORATORY**

**Rec'd/Inspected By:** A.SHAIK

**Rec'd/Inspected**

**Date:** 07/29/2022



|                                                                                                                                 |                                                      |
|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| RQ-2022-07-25-45                                                                                                                | Collected By: Lauren McNally, Brook Olin             |
| Customer: FDEP                                                                                                                  | Field Report Prepared by: Lauren McNally, Brook Olin |
| Project ID: SMP                                                                                                                 | Sampling Agency: FDEP                                |
| WIN ID/Field ID: <br>WIN ID/Field ID: G3NW0448 | Comments:                                            |

**Location:**  
Location: Twin Lake south lobe

Matrix: Fresh (Check One) ☒ Grab ☐ Composite

| Date and Time {CEN}                | DO (mg/L) | DO (%SAT)                                                                    | Temp. © | pH                                       | Sample Depth (m) | Secchi Depth | Total Depth (m) | Sp COND (µmhos /cm) | Salinity (PPT <sub>h</sub> ) |                       |              |   |   |   |   |
|------------------------------------|-----------|------------------------------------------------------------------------------|---------|------------------------------------------|------------------|--------------|-----------------|---------------------|------------------------------|-----------------------|--------------|---|---|---|---|
| 7/28/2022 1020                     | 3.7       | 49.3                                                                         | 30.6    | 6.1                                      | 0.3              | 0.5          | 1.6             | 231                 | 0.11                         |                       |              |   |   |   |   |
| Parameter Suite                    |           | Parameter Methods                                                            |         |                                          |                  | Preservation |                 | pH Check            |                              | # Bottles sent to Lab | Bottle Group |   |   |   |   |
| Preserved Nutrients (P-500ML)      | X         | W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                  |         |                                          |                  | X            | Ice             | X                   | H2SO4*                       | X                     | <2           | 1 | B |   |   |
|                                    |           | Lot #                                                                        |         | 1308030                                  |                  | Exp:         |                 | 12/1/22             |                              |                       |              |   |   |   |   |
| Metals (P-500ML)                   |           | W-ICPMS                                                                      |         | W-ICP                                    |                  | W-HARD       |                 | Ice                 | HNO3*                        |                       | <2           |   |   |   |   |
|                                    |           | Lot #                                                                        |         |                                          |                  | Exp:         |                 |                     |                              |                       |              |   |   |   |   |
| Filtered Nutrients (P125ML)        |           | W-PO4-F                                                                      |         | Field Filtered 0.45 µm Filter            |                  |              |                 | Ice                 |                              |                       |              |   |   |   |   |
|                                    |           | Filter Lot #                                                                 |         | Syringe Lot #                            |                  |              |                 |                     |                              |                       |              |   |   |   |   |
| BOD (BP-1L)                        |           | OV-BODUNIN                                                                   |         |                                          |                  |              | Ice             |                     |                              |                       |              |   |   |   |   |
| Chlorophyll (BP-1L)                | X         | CHLSUITE-W                                                                   |         |                                          |                  | X            | Ice             |                     |                              |                       |              |   |   | 1 | B |
| Physical/Aggregate (Fresh) (P-1L)  | X         | Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W- TDS |         |                                          |                  | X            | Ice             |                     |                              |                       |              |   |   | 1 | B |
| Physical/Aggregate (Marine) (P-1L) |           | Alkalinity / W-F / W-TSS / TURBIDITY                                         |         |                                          |                  |              | Ice             |                     |                              |                       |              |   |   |   |   |
| Macroinvertebrates (PJ-2L)         |           | MI-FW-QLDC                                                                   |         | Formalin Lot #                           |                  |              |                 | Formalin            |                              |                       |              |   |   |   |   |
| Periphyton (PT-50ML)               |           | ALGAE-ID                                                                     |         |                                          |                  |              | Ice             |                     |                              |                       |              |   |   |   |   |
| Microbiology (Contract Lab Bottle) |           | E Coli                                                                       |         | F Coli                                   |                  | Enterococci  |                 | Ice                 |                              |                       |              |   |   |   |   |
|                                    |           | Contract Lab                                                                 |         |                                          |                  |              |                 |                     |                              |                       |              |   |   |   |   |
| Molecular (QPCR-P-500ML)           |           | PCR-HF1B3                                                                    |         | PCR-BacR                                 |                  | PCR-DG3      |                 | Ice                 |                              |                       |              |   |   |   |   |
|                                    |           | PCR-GULL2                                                                    |         | PCR-GFD                                  |                  |              |                 |                     |                              |                       |              |   |   |   |   |
| Tracers (BG-500ML)                 |           | W-E8321-DI                                                                   |         | W-E8321-MS                               |                  |              |                 | Ice                 |                              |                       |              |   |   |   |   |
| Pesticides (BG-500ML) (BG-1L)      |           | W-E8321-DI                                                                   |         | W-E8321-MS                               |                  | W-PSNP-TQ    |                 | Ice                 | MCAA Exp.                    | MCAA Lot#             |              |   |   |   |   |
|                                    |           | W-PCL-TQ-R                                                                   |         | W-CARB-AA (5 ml of MCAA Buffer Solution) |                  | W-CT-CL-R    |                 |                     |                              |                       |              |   |   |   |   |
|                                    |           | W-TR-SQ-R                                                                    |         | W-PCB-TQ-R                               |                  |              |                 |                     |                              |                       |              |   |   |   |   |
| Phytoplankton                      |           | DTY-QN-C                                                                     |         | PKD-QN-BV                                |                  |              |                 | Ice                 |                              |                       |              |   |   |   |   |



|                                                                                                                                 |                                                      |
|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| RQ-2022-07-25-45                                                                                                                | Collected By: Lauren McNally, Brook Olin             |
| Customer: FDEP                                                                                                                  | Field Report Prepared by: Lauren McNally, Brook Olin |
| Project ID: SMP                                                                                                                 | Sampling Agency: FDEP                                |
| WIN ID/Field ID: <br>WIN ID/Field ID: G3NW0215 | Comments:                                            |

Location:  
Location: Twin Lake

Matrix: Fresh

(Check One)

☒ Grab☐ Composite

| Date and Time {CEN} | DO (mg/L) | DO (%SAT) | Temp. °C | pH   | Sample Depth (m) | Secchi Depth | Total Depth (m) | Sp COND (µmhos /cm) | Salinity (PPT) |
|---------------------|-----------|-----------|----------|------|------------------|--------------|-----------------|---------------------|----------------|
| 7/28/2022 945       | 0.51      | 5.7       | 28.2     | 5.96 | 0.2              | 0.4          | 0.4             | 252                 | 0.12           |

| Parameter Suite                    | Parameter Methods |                                                                             |                                          |             | Preservation |          | pH Check  | # Bottles sent to Lab | Bottle Group |
|------------------------------------|-------------------|-----------------------------------------------------------------------------|------------------------------------------|-------------|--------------|----------|-----------|-----------------------|--------------|
| Preserved Nutrients (P-500ML)      | X                 | W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                 |                                          |             | X            | Ice      | X         | H2SO4*                |              |
|                                    |                   | Lot #                                                                       | 1308030                                  |             | Exp:         | 12/1/22  |           | X                     | <2           |
| Metals (P-500ML)                   |                   | W-ICPMS                                                                     |                                          | W-ICP       | W-HARD       | Ice      | HNO3*     |                       | <2           |
|                                    |                   | Lot #                                                                       |                                          |             | Exp:         |          |           |                       |              |
| Filtered Nutrients (P125ML)        |                   | W-PO4-F                                                                     | Field Filtered 0.45 µm Filter            |             |              |          |           |                       |              |
|                                    |                   | Filter Lot #                                                                | Syringe Lot #                            |             |              | Ice      |           |                       |              |
| BOD (BP-1L)                        |                   | OV-BODUNIN                                                                  |                                          |             |              |          | Ice       |                       |              |
| Chlorophyll (BP-1L)                | X                 | CHLSUITE-W                                                                  |                                          |             |              | X        | Ice       | 1                     | A            |
| Physical/Aggregate (Fresh) (P-1L)  | X                 | Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W-TDS |                                          |             |              | X        | Ice       | 1                     | A            |
| Physical/Aggregate (Marine) (P-1L) |                   | Alkalinity / W-F / W-TSS / TURBIDITY                                        |                                          |             |              |          | Ice       |                       |              |
| Macroinvertebrates (PJ-2L)         |                   | MI-FW-QLDC                                                                  | Formalin Lot #                           |             |              | Formalin |           |                       |              |
| Periphyton (PT-50ML)               |                   | ALGAE-ID                                                                    |                                          |             |              |          | Ice       |                       |              |
| Microbiology (Contract Lab Bottle) |                   | E Coli                                                                      | F Coli                                   | Enterococci |              |          | Ice       |                       |              |
|                                    |                   | Contract Lab                                                                |                                          |             |              |          |           |                       |              |
| Molecular (QPCR-P-500ML)           |                   | PCR-HF183                                                                   |                                          | PCR-BacR    | PCR-DG3      |          | Ice       |                       |              |
|                                    |                   | PCR-GULL2                                                                   |                                          | PCR-GFD     |              |          |           |                       |              |
| Tracers (BG-500ML)                 | X                 | W-E8321-DI                                                                  | X                                        | W-E8321-MS  |              | X        | Ice       | 1                     | A            |
| Pesticides (BG-500ML) (BG-1L)      |                   | W-E8321-DI                                                                  | W-E8321-MS                               | W-PSNP-TQ   |              |          | MCAA Exp. | MCAA Lot#             |              |
|                                    |                   | W-PCL-TQ-R                                                                  | W-CARB-AA (5 ml of MCAA Buffer Solution) |             | W-CT-CL-R    |          | Ice       |                       |              |
|                                    |                   | W-TR-SQ-R                                                                   | W-PCB-TQ-R                               |             |              |          |           |                       |              |
| Phytoplankton                      |                   | DTY-QN-C                                                                    |                                          | PKD-QN-BV   |              |          | Ice       |                       |              |



RQ-2022-07-25-45

Collected By: Lauren McNally, Brook Olin

Customer: FDEP

Field Report Prepared by: Lauren McNally, Brook Olin

Project ID: SMP

Sampling Agency: FDEP

WIN ID/Field ID:



WIN ID/Field ID: G3NW0217

Comments:

Location:

Location: Kell-Aire Lake

Matrix: Fresh

(Check One)

☒ Grab☐ Composite

| Date and Time {CEN} | DO (mg/L) | DO (%SAT) | Temp. °C | pH   | Sample Depth (m) | Secchi Depth | Total Depth (m) | Sp COND (µmhos /cm) | Salinity (PPT) |
|---------------------|-----------|-----------|----------|------|------------------|--------------|-----------------|---------------------|----------------|
| 7/28/2022 1115      | 11.11     | 144       | 31.5     | 8.82 | 0.3              | 0.3          | 1.8             | 198                 | 0.09           |

  

| Parameter Suite                    | Parameter Methods |                                                                            |         |                                          | Preservation   | pH Check    | # Bottles sent to Lab | Bottle Group |           |           |
|------------------------------------|-------------------|----------------------------------------------------------------------------|---------|------------------------------------------|----------------|-------------|-----------------------|--------------|-----------|-----------|
| Preserved Nutrients (P-500ML)      | X                 | W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                |         |                                          | X Ice X H2SO4* | X <2        | 1                     | D            |           |           |
|                                    |                   | Lot #                                                                      | 1308030 | Exp:                                     | 12/1/22        |             |                       |              |           |           |
| Metals (P-500ML)                   | X                 | W-ICPMS                                                                    | X       | W-ICP                                    | X              | W-HARD      | X Ice X HNO3*         | X <2         | 1         | D         |
|                                    |                   | Lot #                                                                      | 1105100 | Exp:                                     | 6/7/23         |             |                       |              |           |           |
| Filtered Nutrients (P125ML)        |                   | W-PO4-F                                                                    |         | Field Filtered 0.45 µm Filter            |                |             | Ice                   |              |           |           |
|                                    |                   | Filter Lot #                                                               |         | Syringe Lot #                            |                |             |                       |              |           |           |
| BOD (BP-1L)                        |                   | OV-BODUNIN                                                                 |         |                                          |                |             |                       |              |           |           |
| Chlorophyll (BP-1L)                | X                 | CHLSUITE-W                                                                 |         |                                          |                | X           |                       | Ice          | 1         | D         |
| Physical/Aggregate (Fresh) (P-1L)  | X                 | Alkalinity / W-F / W-TSS / TURBIDITY / W-CH-C / W-COLOR / W-SO4-IC / W-TDS |         |                                          |                | X           |                       | Ice          | 1         | D         |
| Physical/Aggregate (Marine) (P-1L) |                   | Alkalinity / W-F / W-TSS / TURBIDITY                                       |         |                                          |                |             |                       | Ice          |           |           |
| Macroinvertebrates (PJ-2L)         |                   | MI-FW-QLDC                                                                 |         | Formalin Lot #                           |                |             |                       | Formalin     |           |           |
| Periphyton (PT-50ML)               |                   | ALGAE-ID                                                                   |         |                                          |                |             |                       | Ice          |           |           |
| Microbiology (Contract Lab Bottle) |                   | E Coli                                                                     |         | F Coli                                   |                | Enterococci |                       |              |           |           |
|                                    |                   | Contract Lab                                                               |         |                                          |                |             |                       | Ice          |           |           |
| Molecular (QPCR-P-500ML)           |                   | PCR-HF183                                                                  |         | PCR-BacR                                 |                | PCR-DG3     |                       |              |           |           |
|                                    |                   | PCR-GULL2                                                                  |         | PCR-GFD                                  |                |             |                       |              |           |           |
| Tracers (BG-500ML)                 |                   | W-E8321-DI                                                                 |         | W-E8321-MS                               |                |             |                       | Ice          |           |           |
| Pesticides (BG-500ML) (BG-1L)      |                   | W-E8321-DI                                                                 |         | W-E8321-MS                               |                | W-PSNP-TQ   |                       | Ice          | MCAA Exp. | MCAA Lot# |
|                                    |                   | W-PCL-TQ-R                                                                 |         | W-CARB-AA (5 ml of MCAA Buffer Solution) |                | W-CT-CL-R   |                       |              |           |           |
|                                    |                   | W-TR-SQ-R                                                                  |         | W-PCB-TQ-R                               |                |             |                       |              |           |           |
| Phytoplankton                      |                   | DTY-QN-C                                                                   |         | PKD-QN-BV                                |                |             | Ice                   |              |           |           |



|                                                                                                                                 |                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| RQ-2022-07-25-45                                                                                                                | Collected By: Lauren McNally, Brook Olin                           |
| Customer: FDEP                                                                                                                  | Field Report Prepared by: Lauren McNally, Brook Olin               |
| Project ID: SMP                                                                                                                 | Sampling Agency: FDEP                                              |
| WIN ID/Field ID: <br>WIN ID/Field ID: G3NW0216 | Comments: Microbiology sample(s) submitted to contract laboratory. |

Location:  
Location: Coleman Lake

Matrix: Fresh

(Check One) ☒ Grab ☐ Composite

| Date and Time {CEN} | DO (mg/L) | DO (%SAT) | Temp. °C | pH   | Sample Depth (m) | Secchi Depth | Total Depth (m) | Sp COND (µmhos /cm) | Salinity (PPT) |
|---------------------|-----------|-----------|----------|------|------------------|--------------|-----------------|---------------------|----------------|
| 7/28/2022 1145      | 6.46      | 83.5      | 29       | 6.67 | 0.3              | 0.6          | 1.28            | 197                 | 0.09           |

| Parameter Suite                    | Parameter Methods |                                                                              |                |                                          | Preservation |             | pH Check |           | # Bottles sent to Lab | Bottle Group |       |   |    |   |   |
|------------------------------------|-------------------|------------------------------------------------------------------------------|----------------|------------------------------------------|--------------|-------------|----------|-----------|-----------------------|--------------|-------|---|----|---|---|
| Preserved Nutrients (P-500ML)      | X                 | W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                  |                |                                          | X            | Ice         | X        | H2SO4*    | X                     | <2           | 1     | C |    |   |   |
|                                    |                   | Lot #                                                                        |                | 1308030                                  | Exp:         | 12/1/22     |          |           |                       |              |       |   |    |   |   |
| Metals (P-500ML)                   | X                 | W-ICPMS                                                                      |                | X                                        | W-ICP        | X           | W-HARD   | X         | Ice                   | X            | HNO3* | X | <2 | 1 | C |
|                                    |                   | Lot #                                                                        |                | 1105100                                  | Exp:         | 6/7/23      |          |           |                       |              |       |   |    |   |   |
| Filtered Nutrients (P125ML)        |                   | W-PO4-F                                                                      |                | Field Filtered 0.45 µm Filter            |              |             |          | Ice       |                       |              |       |   |    |   |   |
|                                    |                   | Filter Lot #                                                                 |                | Syringe Lot #                            |              |             |          |           |                       |              |       |   |    |   |   |
| BOD (BP-1L)                        |                   | OV-BODUNIN                                                                   |                |                                          |              |             | Ice      |           |                       |              |       |   |    |   |   |
| Chlorophyll (BP-1L)                | X                 | CHLSUITE-W                                                                   |                |                                          |              | X           | Ice      |           | 1                     | C            |       |   |    |   |   |
| Physical/Aggregate (Fresh) (P-1L)  | X                 | Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W- TDS |                |                                          |              | X           | Ice      |           | 1                     | C            |       |   |    |   |   |
| Physical/Aggregate (Marine) (P-1L) |                   | Alkalinity / W-F / W-TSS / TURBIDITY                                         |                |                                          |              |             | Ice      |           |                       |              |       |   |    |   |   |
| Macroinvertebrates (PJ-2L)         |                   | MI-FW-QLDC                                                                   | Formalin Lot # |                                          |              |             | Formalin |           |                       |              |       |   |    |   |   |
| Periphyton (PT-50ML)               |                   | ALGAE-ID                                                                     |                |                                          |              |             | Ice      |           |                       |              |       |   |    |   |   |
| Microbiology (Contract Lab Bottle) | X                 | E Coli                                                                       |                | F Coli                                   |              | Enterococci | X        | Ice       |                       | 1            | C     |   |    |   |   |
|                                    | X                 | Contract Lab                                                                 |                |                                          |              |             |          |           |                       |              |       |   |    |   |   |
| Molecular (QPCR-P-500ML)           |                   | PCR-HF183                                                                    |                |                                          | PCR-BacR     |             | PCR-DG3  |           | Ice                   |              |       |   |    |   |   |
|                                    |                   | PCR-GULL2                                                                    |                |                                          | PCR-GFD      |             |          |           |                       |              |       |   |    |   |   |
| Tracers (BG-500ML)                 |                   | W-E8321-DI                                                                   |                |                                          | W-E8321-MS   |             |          | Ice       |                       |              |       |   |    |   |   |
| Pesticides (BG-500ML) (BG-1L)      |                   | W-E8321-DI                                                                   |                | W-E8321-MS                               |              | W-PSNP-TQ   |          | MCAA Exp. | MCAA Lot#             |              |       |   |    |   |   |
|                                    |                   | W-PCL-TQ-R                                                                   |                | W-CARB-AA (5 ml of MCAA Buffer Solution) |              | W-CT-CL-R   |          |           |                       |              |       |   |    |   |   |
|                                    |                   | W-TR-SQ-R                                                                    |                | W-PCB-TQ-R                               |              |             |          |           |                       |              |       |   |    |   |   |
| Phytoplankton                      |                   | DTY-QN-C                                                                     |                | PKD-QN-BV                                |              |             |          | Ice       |                       |              |       |   |    |   |   |



RQ-2022-07-25-45

Collected By: Lauren McNally, Brook Olin

Customer: FDEP

Field Report Prepared by: Lauren McNally, Brook Olin

Project ID: SMP

Sampling Agency: FDEP

WIN ID/Field ID:



WIN ID/Field ID: G3NW0449

Comments:

Location:

Location: Twin Lake eastern lake

Matrix: Fresh

(Check One)

✓ Grab

□ Composite

| Date and Time {CEN} | DO (mg/L) | DO (%SAT) | Temp. °C | pH  | Sample Depth (m) | Secchi Depth | Total Depth (m) | Sp COND (µmhos /cm) | Salinity (PPT) |
|---------------------|-----------|-----------|----------|-----|------------------|--------------|-----------------|---------------------|----------------|
| 7/28/2022 1040      | 6.12      | 78.1      | 30       | 6.4 | 0.3              | 0.5          | 1.6             | 167.6               | 0.08           |

  

| Parameter Suite                    | Parameter Methods |                                                                             |                |                                          | Preservation  |             | pH Check |        | # Bottles sent to Lab | Bottle Group |   |   |
|------------------------------------|-------------------|-----------------------------------------------------------------------------|----------------|------------------------------------------|---------------|-------------|----------|--------|-----------------------|--------------|---|---|
| Preserved Nutrients (P-500ML)      | X                 | W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                 |                |                                          | X             | Ice         | X        | H2SO4* | X                     | <2           | 1 | B |
|                                    |                   | Lot #                                                                       | 1308030        | Exp:                                     | 12/1/22       |             |          |        |                       |              |   |   |
| Metals (P-500ML)                   |                   | W-ICPMS                                                                     |                | W-ICP                                    | W-HARD        |             | Ice      | HNO3*  |                       | <2           |   |   |
|                                    |                   | Lot #                                                                       |                |                                          | Exp:          |             |          |        |                       |              |   |   |
| Filtered Nutrients (P125ML)        |                   | W-PO4-F                                                                     |                | Field Filtered 0.45 µm Filter            |               |             | Ice      |        |                       |              |   |   |
|                                    |                   | Filter Lot #                                                                |                |                                          | Syringe Lot # |             |          |        |                       |              |   |   |
| BOD (BP-1L)                        |                   | OV-BODUNIN                                                                  |                |                                          |               |             | Ice      |        |                       |              |   |   |
| Chlorophyll (BP-1L)                | X                 | CHLSUITE-W                                                                  |                |                                          |               | X           | Ice      |        |                       | 1            | B |   |
| Physical/Aggregate (Fresh) (P-1L)  | X                 | Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS |                |                                          |               | X           | Ice      |        |                       | 1            | B |   |
| Physical/Aggregate (Marine) (P-1L) |                   | Alkalinity / W-F / W-TSS / TURBIDITY                                        |                |                                          |               |             | Ice      |        |                       |              |   |   |
| Macroinvertebrates (PJ-2L)         |                   | MI-FW-QLDC                                                                  | Formalin Lot # |                                          |               |             | Formalin |        |                       |              |   |   |
| Periphyton (PT-50ML)               |                   | ALGAE-ID                                                                    |                |                                          |               |             | Ice      |        |                       |              |   |   |
| Microbiology (Contract Lab Bottle) |                   | E Coli                                                                      |                | F Coli                                   |               | Enterococci |          | Ice    |                       |              |   |   |
|                                    |                   | Contract Lab                                                                |                |                                          |               |             |          |        |                       |              |   |   |
| Molecular (QPCR-P-500ML)           |                   | PCR-HF183                                                                   |                | PCR-BacR                                 |               | PCR-DG3     |          | Ice    |                       |              |   |   |
|                                    |                   | PCR-GULL2                                                                   |                | PCR-GFD                                  |               |             |          |        |                       |              |   |   |
| Tracers (BG-500ML)                 |                   | W-E8321-DI                                                                  |                | W-E8321-MS                               |               |             | Ice      |        |                       |              |   |   |
| Pesticides (BG-500ML) (BG-1L)      |                   | W-E8321-DI                                                                  |                | W-E8321-MS                               |               | W-PSNP-TQ   |          | Ice    | MCAA Exp.             | MCAA Lot#    |   |   |
|                                    |                   | W-PCL-TQ-R                                                                  |                | W-CARB-AA (5 ml of MCAA Buffer Solution) |               | W-CT-CL-R   |          |        |                       |              |   |   |
|                                    |                   | W-TR-SQ-R                                                                   |                | W-PCB-TQ-R                               |               |             |          |        |                       |              |   |   |
| Phytoplankton                      |                   | DTY-QN-C                                                                    |                | PKD-QN-BV                                |               |             | Ice      |        |                       |              |   |   |





Date of Request: 06-JUL-2022  
 Created By: SLADE\_C On: 06-JUL-2022  
 Modified By: JASROTIA\_P On: 07-JUL-2022  
 Customer: NW-DIST  
 Project: SMP  
 Division: Division of Environmental Assessment and Restoration  
 District: Northwest District  
 Event Description: Twin Lakes Continuous Monitoring

**Send Coolers To:**

Phone: 850-595-0567  
 160 W Government Street  
 Suite 208  
 Pensacola, FL 32502-5794  
 Attn: Stopher Slade  
 Cooler Ship EMail: christopher.slade@dep.state.fl.us

Priority: 3  
 Event Status: R  
 Criminal Investigation: NO  
 Chemistry Request Reviewed By: AYRES\_J On: 07-JUL-2022  
 Biology Request Reviewed By: JASROTIA\_P On: 07-JUL-2022  
 Sampling Kit Required: YES Ship on: 18-JUL-2022  
 Sampling Kit Shipped: YES On: 18-JUL-2022  
 Sampling Kit Packed By: SHAIK\_A  
 Preservatives Needed: NO  
 Date to Receive Samples: 25-JUL-2022  
 Logged In By: SHAIK\_A On: 29-JUL-2022

**Send Final Report To:**

160 W Government Street  
 Suite 208  
 Pensacola, FL 32502-5794  
 Attn: Myranda Butler  
 Report Notification EMail:  
 christopher.slade@floridadep.gov;Myranda.k.butler@floridadep.gov;

Comments: Group A: (WBID 906A) Freshwater Nutrients, Tracers  
 Group B (WBID 906A) Freshwater Nutrients  
 Group C (WBID 906B) Freshwater Nutrients, Metals, Tracers, Contract Lab Bacteria  
 Group D (WBID 906B) Freshwater Nutrients, Metals

Packing notes;

FedEx return packing slips

**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-CL-IC               | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Chloride in aqueous matrices                                                            |
| W-COLOR               | Template: DEFAULT    | (DEP SOP: NU-094-1) True Color measured at 450 nm (not valid for NPDES monitoring)                           |
| Color (true)          |                      |                                                                                                              |
| W-F                   | Template: DEFAULT    | (SM 4500-F- C-2011) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)      |
| W-SO4-IC              | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Sulfate in aqueous matrices                                                             |
| W-TDS                 | Template: DEFAULT    | (SM 2540 C-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: BG-500ML | Number of Bottles: 1 | Preserved With: ICE                                                                                          |
| W-E8321-DI            | Template: DEFAULT    | (EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS                      |
| W-E8321-MS            | Template: SMP        | (EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS                      |
| Bottle Type: P-500ML  | Number of Bottles: 1 | Preserved With: ICE And H <sub>2</sub> SO <sub>4</sub>                                                       |

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

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

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

|                   |                      |                                                                                                         |
|-------------------|----------------------|---------------------------------------------------------------------------------------------------------|
| Bottle Type: P-1L | Number of Bottles: 2 | Preserved With: ICE                                                                                     |
| ALKALINITY        | Template: DEFAULT    | (SM 2320 B-2011) Alkalinity in aqueous matrices as mg CaCO3/L                                           |
| TURBIDITY         | Template: DEFAULT    | (EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices                                                      |
| W-CL-IC           | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Chloride in aqueous matrices                                                       |
| W-COLOR           | Template: DEFAULT    | (DEP SOP: NU-094-1) True Color measured at 450 nm (not valid for NPDES monitoring)                      |
| Color (true)      |                      |                                                                                                         |
| W-F               | Template: DEFAULT    | (SM 4500-F- C-2011) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring) |
| W-SO4-IC          | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Sulfate in aqueous matrices                                                        |
| W-TDS             | Template: DEFAULT    | (SM 2540 C-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: 2 | 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: 2 | Preserved With: ICE And H2SO4                                       |
| W-NH3                | Template: DEFAULT    | (EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L          |
| W-NO2NO3             | Template: DEFAULT    | (EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L  |
| W-S-A-TP             | Template: DEFAULT    | (EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L |
| W-TKN                | Template: DEFAULT    | (EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices    |
| W-TOC                | Template: DEFAULT    | (SM 5310 B-2011) Nonpurgeable Organic Carbon in aqueous matrices    |

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

|                          |                      |                                                                                                                                                |
|--------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: TEST HAS NO | Number of Bottles: 1 | Preserved With: ICE                                                                                                                            |
| NW-UWF-ECQ               | Template: DEFAULT    | (SM 9223 B Quanti-Tray) E. coli by Colilert-18/QT by UWF in Pensacola                                                                          |
| Bottle Type: BG-500ML    | Number of Bottles: 1 | Preserved With: ICE                                                                                                                            |
| W-E8321-DI               | Template: DEFAULT    | (EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS                                                        |
| W-E8321-MS               | Template: SMP        | (EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS                                                        |
| Bottle Type: P-500ML     | Number of Bottles: 1 | Preserved With: HNO3                                                                                                                           |
| W-HARD                   | Template: DEFAULT    | (SM 2340 B-2011) Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3                                                          |
| Hardness                 |                      |                                                                                                                                                |
| W-ICP                    | Template: SMP-FRESH  | (EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects |
| Calcium                  |                      |                                                                                                                                                |
| Iron                     |                      |                                                                                                                                                |
| Magnesium                |                      |                                                                                                                                                |
| Potassium                |                      |                                                                                                                                                |
| Sodium                   |                      |                                                                                                                                                |
| Strontium                |                      |                                                                                                                                                |
| Tin                      |                      |                                                                                                                                                |
| Titanium                 |                      |                                                                                                                                                |
| Vanadium                 |                      |                                                                                                                                                |
| Zinc                     |                      |                                                                                                                                                |
| W-ICPMS                  | Template: DEFAULT    | (EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects                    |
| Aluminum                 |                      |                                                                                                                                                |
| Antimony                 |                      |                                                                                                                                                |
| Arsenic                  |                      |                                                                                                                                                |
| Barium                   |                      |                                                                                                                                                |
| Beryllium                |                      |                                                                                                                                                |
| Boron                    |                      |                                                                                                                                                |
| Cadmium                  |                      |                                                                                                                                                |
| Chromium                 |                      |                                                                                                                                                |
| Cobalt                   |                      |                                                                                                                                                |

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

|                      |                      |                                                                                                                             |
|----------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-500ML | Number of Bottles: 1 | Preserved With: HNO3                                                                                                        |
| W-ICPMS              | Template: DEFAULT    | (EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects |
| Copper               |                      |                                                                                                                             |
| Lead                 |                      |                                                                                                                             |
| Manganese            |                      |                                                                                                                             |
| Molybdenum           |                      |                                                                                                                             |
| Nickel               |                      |                                                                                                                             |
| Selenium             |                      |                                                                                                                             |
| Silver               |                      |                                                                                                                             |
| Thallium             |                      |                                                                                                                             |
| Bottle Type: P-500ML | Number of Bottles: 1 | Preserved With: ICE And H2SO4                                                                                               |
| W-NH3                | Template: DEFAULT    | (EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L                                                                  |
| W-NO2NO3             | Template: DEFAULT    | (EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L                                                          |
| W-S-A-TP             | Template: DEFAULT    | (EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L                                                         |
| W-TKN                | Template: DEFAULT    | (EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices                                                            |
| W-TOC                | Template: DEFAULT    | (SM 5310 B-2011) Nonpurgeable Organic Carbon in aqueous matrices                                                            |
| Bottle Type: P-1L    | Number of Bottles: 1 | Preserved With: ICE                                                                                                         |
| ALKALINITY           | Template: DEFAULT    | (SM 2320 B-2011) Alkalinity in aqueous matrices as mg CaCO3/L                                                               |
| TURBIDITY            | Template: DEFAULT    | (EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices                                                                          |
| W-CL-IC              | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Chloride in aqueous matrices                                                                           |
| W-COLOR              | Template: DEFAULT    | (DEP SOP: NU-094-1) True Color measured at 450 nm (not valid for NPDES monitoring)                                          |
| Color (true)         |                      |                                                                                                                             |
| W-F                  | Template: DEFAULT    | (SM 4500-F- C-2011) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)                     |
| W-SO4-IC             | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Sulfate in aqueous matrices                                                                            |
| W-TDS                | Template: DEFAULT    | (SM 2540 C-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 Group D (Water) With 1 Samples:**

|                      |                      |                                                                                                                                                |
|----------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-1L    | Number of Bottles: 1 | Preserved With: ICE                                                                                                                            |
| ALKALINITY           | Template: DEFAULT    | (SM 2320 B-2011) Alkalinity in aqueous matrices as mg CaCO3/L                                                                                  |
| TURBIDITY            | Template: DEFAULT    | (EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices                                                                                             |
| W-CL-IC              | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Chloride in aqueous matrices                                                                                              |
| W-COLOR              | Template: DEFAULT    | (DEP SOP: NU-094-1) True Color measured at 450 nm (not valid for NPDES monitoring)                                                             |
| Color (true)         |                      |                                                                                                                                                |
| W-F                  | Template: DEFAULT    | (SM 4500-F- C-2011) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)                                        |
| W-SO4-IC             | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Sulfate in aqueous matrices                                                                                               |
| W-TDS                | Template: DEFAULT    | (SM 2540 C-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: HNO3                                                                                                                           |
| W-HARD               | Template: DEFAULT    | (SM 2340 B-2011) Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3                                                          |
| Hardness             |                      |                                                                                                                                                |
| W-ICP                | Template: SMP-FRESH  | (EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects |
| Calcium              |                      |                                                                                                                                                |
| Iron                 |                      |                                                                                                                                                |
| Magnesium            |                      |                                                                                                                                                |
| Potassium            |                      |                                                                                                                                                |
| Sodium               |                      |                                                                                                                                                |
| Strontium            |                      |                                                                                                                                                |
| Tin                  |                      |                                                                                                                                                |
| Titanium             |                      |                                                                                                                                                |

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

|                      |                      |                                                                                                                                                |
|----------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-500ML | Number of Bottles: 1 | Preserved With: HNO3                                                                                                                           |
| W-ICP                | Template: SMP-FRESH  | (EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects |
| Vanadium             |                      |                                                                                                                                                |
| Zinc                 |                      |                                                                                                                                                |
| W-ICPMS              | Template: DEFAULT    | (EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects                    |
| Aluminum             |                      |                                                                                                                                                |
| Antimony             |                      |                                                                                                                                                |
| Arsenic              |                      |                                                                                                                                                |
| Barium               |                      |                                                                                                                                                |
| Beryllium            |                      |                                                                                                                                                |
| Boron                |                      |                                                                                                                                                |
| Cadmium              |                      |                                                                                                                                                |
| Chromium             |                      |                                                                                                                                                |
| Cobalt               |                      |                                                                                                                                                |
| Copper               |                      |                                                                                                                                                |
| Lead                 |                      |                                                                                                                                                |
| Manganese            |                      |                                                                                                                                                |
| Molybdenum           |                      |                                                                                                                                                |
| Nickel               |                      |                                                                                                                                                |
| 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                                                                               |