



# FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

June 2016

PAGE 1 OF

Data Qualified?

Yes / No

STORET Station Name: Lake Lafayette Drain At Chaires Cross Rd

Date: 07/27/2016

(mm/dd/yyyy)

STORET Station ID: G1WA0013

WBID: 7561

Latitude: 30.4318

(Decimal Degrees)

County: Leon

RQ - 2016-07-25-47

ORG ID: 21FLWQA

Longitude: -84.1188

(Decimal Degrees)

Receiving Body of Water: Lake Lafayette

Field ID: G1WA0013

| Sampling Team Members                                                                          |      |                                                                                                                               |                 | WQ Measurements             | Sample Collection | Documentation                                                                                                                                             | Preservation   | Preservation Check          | Sampling Equipment                                     |                                             |                                          |  |
|------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------------|--------------------------------------------------------|---------------------------------------------|------------------------------------------|--|
| Curtis Musson                                                                                  |      |                                                                                                                               |                 |                             |                   |                                                                                                                                                           |                |                             | <input checked="" type="checkbox"/> Sample Container   | <input type="checkbox"/> Van Dorn           | <input checked="" type="checkbox"/> Pole |  |
| Robert Wiwi                                                                                    |      |                                                                                                                               |                 |                             |                   |                                                                                                                                                           |                |                             | <input type="checkbox"/> Carboy                        | <input checked="" type="checkbox"/> Syringe |                                          |  |
|                                                                                                |      |                                                                                                                               |                 |                             |                   |                                                                                                                                                           |                |                             | <input type="checkbox"/> Dipper                        | <input type="checkbox"/> Other              |                                          |  |
|                                                                                                |      |                                                                                                                               |                 |                             |                   |                                                                                                                                                           |                |                             | Equipment ID                                           |                                             |                                          |  |
|                                                                                                |      |                                                                                                                               |                 |                             |                   |                                                                                                                                                           |                |                             | Collection Method                                      |                                             |                                          |  |
|                                                                                                |      |                                                                                                                               |                 |                             |                   |                                                                                                                                                           |                |                             | <input type="checkbox"/> Wading                        | Via Boat                                    |                                          |  |
|                                                                                                |      |                                                                                                                               |                 |                             |                   |                                                                                                                                                           |                |                             | <input checked="" type="checkbox"/> From Shore         | <input type="checkbox"/> Canoe/Kayak        |                                          |  |
|                                                                                                |      |                                                                                                                               |                 |                             |                   |                                                                                                                                                           |                |                             | <input checked="" type="checkbox"/> Other (note below) | <input type="checkbox"/> Electric Motor     |                                          |  |
|                                                                                                |      |                                                                                                                               |                 |                             |                   |                                                                                                                                                           |                |                             | Gasoline Motor                                         |                                             |                                          |  |
|                                                                                                |      |                                                                                                                               |                 |                             |                   |                                                                                                                                                           |                |                             | From bridge RW                                         |                                             |                                          |  |
| Water Level: Dry / Low / Normal / High / Flooded                                               |      |                                                                                                                               |                 | Matrix: Fresh / Marine / DI |                   |                                                                                                                                                           |                | Tide Falling: Yes / No / NA |                                                        |                                             |                                          |  |
| Meter ID# Biology 2                                                                            |      |                                                                                                                               |                 | Photos: Yes / No            |                   |                                                                                                                                                           |                |                             |                                                        |                                             |                                          |  |
| Time Zone                                                                                      | Time | Sample Depth (m)                                                                                                              | Total Depth (m) | DO (mg/L)                   | DO (%SAT)         | pH                                                                                                                                                        | Salinity (ppt) | Secchi Disk (m)             | Sp COND (µmhos/cm)                                     | Temp. (C°)                                  |                                          |  |
| EST                                                                                            | 8:40 | 0.3                                                                                                                           | 0.9             | 2.51                        | 30.3              | 5.61                                                                                                                                                      | 0.01           | 0.8                         | 29                                                     | 24.92                                       |                                          |  |
| CEN                                                                                            |      |                                                                                                                               |                 |                             |                   |                                                                                                                                                           |                |                             |                                                        |                                             |                                          |  |
| Biological Samples Collected: None HA SCI LVS RPS LVI Other                                    |      |                                                                                                                               |                 |                             |                   |                                                                                                                                                           |                |                             |                                                        |                                             |                                          |  |
| Parameter Suite                                                                                |      | Parameter Methods                                                                                                             |                 |                             |                   | Preservation                                                                                                                                              |                | Acid Lot#                   |                                                        | Expiration                                  | pH Check                                 |  |
| Preserved Nutrients                                                                            |      | <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                                                                         |                | SA-6133010                  |                                                        | 5/12/17                                     | <input checked="" type="checkbox"/> <2   |  |
| Metals                                                                                         |      | <input type="checkbox"/> W-ICPMS <input type="checkbox"/> W-ICP                                                               |                 |                             |                   | <input type="checkbox"/> Ice <input type="checkbox"/> HNO2                                                                                                |                |                             |                                                        |                                             | <input type="checkbox"/> <2              |  |
| Filtered Nutrients                                                                             |      | <input checked="" type="checkbox"/> W-P04-F <input checked="" type="checkbox"/> Field Filtered 0.45 µm Filter                 |                 |                             |                   | <input checked="" type="checkbox"/> Ice                                                                                                                   |                |                             |                                                        |                                             |                                          |  |
| Chlorophyll                                                                                    |      | <input checked="" type="checkbox"/> CHLSUITE-W                                                                                |                 |                             |                   | <input checked="" type="checkbox"/> Ice                                                                                                                   |                |                             |                                                        |                                             |                                          |  |
| Physical/Aggregate (Fresh)                                                                     |      | <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                                                                                                                   |                |                             |                                                        |                                             |                                          |  |
| Physical/Aggregate (Marine)                                                                    |      | <input type="checkbox"/> Alkalinity / W-F / W-TSS / TURBIDITY                                                                 |                 |                             |                   | <input type="checkbox"/> Ice                                                                                                                              |                |                             |                                                        |                                             |                                          |  |
| Macroinvertebrates                                                                             |      | <input type="checkbox"/> MI-FW-QLDC                                                                                           |                 |                             |                   | <input type="checkbox"/> Formalin                                                                                                                         |                |                             |                                                        |                                             |                                          |  |
| Microbiology                                                                                   |      | <input type="checkbox"/> E Coli <input type="checkbox"/> F Coli <input type="checkbox"/> Entero <input type="checkbox"/> QPCR |                 |                             |                   | <input type="checkbox"/> Ice                                                                                                                              |                |                             |                                                        |                                             |                                          |  |
| Periphyton                                                                                     |      | <input type="checkbox"/> ALGAE-ID                                                                                             |                 |                             |                   | <input type="checkbox"/> Ice                                                                                                                              |                |                             |                                                        |                                             |                                          |  |
| Pesticides                                                                                     |      | <input type="checkbox"/> W-PSNP-TQ <input type="checkbox"/> W-AHERB-AA <input type="checkbox"/> W-PYR-AA-R                    |                 |                             |                   | <input type="checkbox"/> Ice                                                                                                                              |                |                             |                                                        |                                             |                                          |  |
|                                                                                                |      | <input type="checkbox"/> W-PC-AA-SF <input type="checkbox"/> W-UHERB-AA <input type="checkbox"/> W-GLYPH                      |                 |                             |                   | <input type="checkbox"/> Other                                                                                                                            |                |                             |                                                        |                                             |                                          |  |
| Notes:                                                                                         |      |                                                                                                                               |                 |                             |                   |                                                                                                                                                           |                |                             |                                                        |                                             |                                          |  |
|                                                                                                |      |                                                                                                                               |                 |                             |                   | <br>G1WA0013 27 July 2016<br>Lake Lafayette Drain At Chaires Cross Rd |                |                             |                                                        |                                             |                                          |  |
| Signature:  |      |                                                                                                                               |                 |                             |                   | Date: 7/27/16                                                                                                                                             |                |                             |                                                        |                                             |                                          |  |

Field Parameters Entered into LIMS: CM 7-28-16  
(Initials/Date)

Field Parameters QC in LIMS: (Initials/Date)

Date Migrated to STORET: (Initials/Date)

Field Sheets Scanned/Saved: (Initials/Date)



# QA/QC Sample Information

Duplicate

| Time Zone: <b>EST</b> CEN   |                                                                                                                                                                                                                        | Sample Depth (m): <u>0.055</u>                                                                  |                                                                                                                                                                                                                                                                                                                                                                                           | Field ID: G1WA0014D |                                        |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------------------|
| Time: <u>9:25</u>           |                                                                                                                                                                                                                        | Total Depth (m): <u>0.11</u>                                                                    |                                                                                                                                                                                                                                                                                                                                                                                           |                     |                                        |
| Parameter Suite             | Parameter Methods                                                                                                                                                                                                      | Preservation                                                                                    | Acid Lot#                                                                                                                                                                                                                                                                                                                                                                                 | Expiration          | pH Check                               |
| Preserved Nutrients         | <input type="checkbox"/> W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                                                                                                                                   | <input checked="" type="checkbox"/> Ice <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> | SA-6133010                                                                                                                                                                                                                                                                                                                                                                                | 5/12/17             | <input checked="" type="checkbox"/> <2 |
| Metals                      | <input checked="" type="checkbox"/> W-ICPMS <input checked="" type="checkbox"/> W-ICP                                                                                                                                  | <input checked="" type="checkbox"/> Ice <input type="checkbox"/> HNO <sub>3</sub>               | NA-5259030                                                                                                                                                                                                                                                                                                                                                                                | 9/16/16             | <input checked="" type="checkbox"/> <2 |
| Filtered Nutrients          | <input checked="" type="checkbox"/> W-PO4-F <input checked="" type="checkbox"/> Field Filtered 0.45 µm Filter                                                                                                          | <input checked="" type="checkbox"/> Ice                                                         | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <b>Contains 1:1 Sulfuric Acid SA-6133010 EXP: 05/12/17 Warning! See SDS</b> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <b>Contains 1:1 Nitric Acid NA-5259030 EXP: 09/16/16 Warning! See MSDS</b> </div> </div> |                     |                                        |
| Chlorophyll                 | <input checked="" type="checkbox"/> CHLSUITE-W                                                                                                                                                                         | <input checked="" type="checkbox"/> Ice                                                         |                                                                                                                                                                                                                                                                                                                                                                                           |                     |                                        |
| Physical/Aggregate (Fresh)  | <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                                                         |                                                                                                                                                                                                                                                                                                                                                                                           |                     |                                        |
| Physical/Aggregate (Marine) | <input type="checkbox"/> Alkalinity / W-F / W-TSS / TURBIDITY                                                                                                                                                          | <input type="checkbox"/> Ice                                                                    |                                                                                                                                                                                                                                                                                                                                                                                           |                     |                                        |
| Microbiology                | <input type="checkbox"/> E Coli <input type="checkbox"/> F Coli <input type="checkbox"/> Enteroc <input type="checkbox"/> QPCR                                                                                         | <input type="checkbox"/> Ice                                                                    |                                                                                                                                                                                                                                                                                                                                                                                           |                     |                                        |
| Pesticides                  | <input type="checkbox"/> W-PSNP-TQ <input type="checkbox"/> W-AHERB-AA <input type="checkbox"/> W-PYR-AA-R<br><input type="checkbox"/> W-PC-AA-SF <input type="checkbox"/> W-UHERB-AA <input type="checkbox"/> W-GLYPH | <input type="checkbox"/> Ice<br><input type="checkbox"/> Other                                  |                                                                                                                                                                                                                                                                                                                                                                                           |                     |                                        |

Blank

| Time Zone: <b>EST</b> CEN                                                                                                                       |                                                                                                                                                                                                                        | Time: <u>08:25</u>                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                           | Field ID: G1WA0014B |                                        | Location: <u>at Chair Creek Rd</u> |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------------------|------------------------------------|--|
| <input checked="" type="checkbox"/> Field Blank <input type="checkbox"/> Equipment Blank <input type="checkbox"/> Field Cleaned Equipment Blank |                                                                                                                                                                                                                        | Equipment ID: _____                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                           |                     |                                        |                                    |  |
| Parameter Suite                                                                                                                                 | Parameter Methods                                                                                                                                                                                                      | Preservation                                                                                               | Acid Lot#                                                                                                                                                                                                                                                                                                                                                                                 | Expiration          | pH Check                               |                                    |  |
| Preserved Nutrients                                                                                                                             | <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"/> H <sub>2</sub> SO <sub>4</sub> | SA-6133010                                                                                                                                                                                                                                                                                                                                                                                | 5/12/17             | <input checked="" type="checkbox"/> <2 |                                    |  |
| Metals                                                                                                                                          | <input checked="" type="checkbox"/> W-ICPMS <input checked="" type="checkbox"/> W-ICP                                                                                                                                  | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> HNO <sub>3</sub>               | NA-5259030                                                                                                                                                                                                                                                                                                                                                                                | 9/16/16             | <input type="checkbox"/> <2            |                                    |  |
| Filtered Nutrients                                                                                                                              | <input checked="" type="checkbox"/> W-PO4-F <input checked="" type="checkbox"/> Field Filtered 0.45 µm Filter                                                                                                          | <input checked="" type="checkbox"/> Ice                                                                    | <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <b>Contains 1:1 Sulfuric Acid SA-6133010 EXP: 05/12/17 Warning! See SDS</b> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <b>Contains 1:1 Nitric Acid NA-5259030 EXP: 09/16/16 Warning! See MSDS</b> </div> </div> |                     |                                        |                                    |  |
| Chlorophyll                                                                                                                                     | <input checked="" type="checkbox"/> CHLSUITE-W                                                                                                                                                                         | <input checked="" type="checkbox"/> Ice                                                                    |                                                                                                                                                                                                                                                                                                                                                                                           |                     |                                        |                                    |  |
| Physical/Aggregate (Fresh)                                                                                                                      | <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                                                                    |                                                                                                                                                                                                                                                                                                                                                                                           |                     |                                        |                                    |  |
| Physical/Aggregate (Marine)                                                                                                                     | <input type="checkbox"/> Alkalinity / W-F / W-TSS / TURBIDITY                                                                                                                                                          | <input type="checkbox"/> Ice                                                                               |                                                                                                                                                                                                                                                                                                                                                                                           |                     |                                        |                                    |  |
| Microbiology                                                                                                                                    | <input type="checkbox"/> E Coli <input type="checkbox"/> F Coli <input type="checkbox"/> Enteroc <input type="checkbox"/> QPCR                                                                                         | <input type="checkbox"/> Ice                                                                               |                                                                                                                                                                                                                                                                                                                                                                                           |                     |                                        |                                    |  |
| Pesticides                                                                                                                                      | <input type="checkbox"/> W-PSNP-TQ <input type="checkbox"/> W-AHERB-AA <input type="checkbox"/> W-PYR-AA-R<br><input type="checkbox"/> W-PC-AA-SF <input type="checkbox"/> W-UHERB-AA <input type="checkbox"/> W-GLYPH | <input type="checkbox"/> Ice<br><input type="checkbox"/> Other                                             |                                                                                                                                                                                                                                                                                                                                                                                           |                     |                                        |                                    |  |

|                               |  |                                                                                                                                                 |  |
|-------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Notes:                        |  | <br>G1WA0014 27 July 2016<br>Caney Creek Upstream of US 90 |  |
| Signature: <u>[Signature]</u> |  | Date: <u>7/27/16</u>                                                                                                                            |  |

Field Parameters Entered into LIMS: CM 7-28-2016 (Initials/Date) Field Parameters QC in LIMS: \_\_\_\_\_ (Initials/Date)

Date Migrated to STORET: \_\_\_\_\_ (Initials/Date) Field Sheets Scanned/Saved: \_\_\_\_\_ (Initials/Date)



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

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

Meter Biology 2

RQ- 2016-07-25-47

Project SMP

- Notes: (1) Numbers  $\leq 4$ , are rounded down; numbers  $\geq 5$  are rounded up (e.g., 5.15 becomes 5.2).  
 (2) Always wait for meter to stabilize before recording any readings.  
 (3) For Calibrations, record calibrated meter reading before calibration.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 06/03/2016

| DO DEP SOP FT 1500 | Name                 | Date           | Time CT-ET     | Temp         | D.O. Chart mg/L | Meter D.O. mg/L | % DO         | Probe Charge | Probe Gain | Pass / Fail | Lab / Field |
|--------------------|----------------------|----------------|----------------|--------------|-----------------|-----------------|--------------|--------------|------------|-------------|-------------|
| Calibr.            | <u>Curtis Mussey</u> | <u>7/27</u>    | <u>0714</u>    | <u>22.67</u> | <u>8.627</u>    | <u>8.64</u>     | <u>100.1</u> | <u>43.1</u>  | <u>-</u>   | <u>P</u>    | <u>L</u>    |
| ICV                | <u>Curtis Mussey</u> | <u>7/27/16</u> | <u>716</u>     | <u>22.7</u>  | <u>8.61</u>     | <u>8.65</u>     | <u>100.1</u> | <u>43.1</u>  | <u>-</u>   | <u>P</u>    | <u>L</u>    |
| CCV                | <u>Curtis Mussey</u> | <u>7/27/16</u> | <u>718</u>     | <u>22.6</u>  | <u>8.64</u>     | <u>8.84</u>     | <u>102.4</u> | <u>42.0</u>  | <u>-</u>   | <u>P</u>    | <u>L</u>    |
| CCV                | <u>Curtis Mussey</u> | <u>1502</u>    | <u>7/27/16</u> | <u>25.3</u>  | <u>8.22</u>     | <u>9.02</u>     | <u>109.8</u> | <u>39.0</u>  | <u>-</u>   | <u>Fail</u> | <u>L</u>    |

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

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; DO charge N/A.

Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

| Spec. Cond. FT 1200 | Name                 | Date           | Time CT-ET  | Lot #          | Expir. Date    | Standard $\mu\text{mhos/cm}$ | Meter Reading $\mu\text{mhos/cm}$ | Pass / Fail | Lab / Field |
|---------------------|----------------------|----------------|-------------|----------------|----------------|------------------------------|-----------------------------------|-------------|-------------|
| Calibr.             | <u>Curtis Mussey</u> | <u>7/27/16</u> | <u>721</u>  | <u>160330D</u> | <u>04/2017</u> | <u>1000</u>                  | <u>1000</u>                       | <u>P</u>    | <u>L</u>    |
| ICV                 | <u>Curtis Mussey</u> | <u>7/27/16</u> | <u>722</u>  | <u>160330D</u> | <u>04/2017</u> | <u>1000</u>                  | <u>1000</u>                       | <u>P</u>    | <u>L</u>    |
| CCV                 | <u>Curtis Mussey</u> | <u>7/27/16</u> | <u>1505</u> | <u>2601533</u> | <u>12/2017</u> | <u>100</u>                   | <u>102</u>                        | <u>P</u>    | <u>L</u>    |
| CCV                 |                      |                |             |                |                |                              |                                   |             |             |

Report specific conductance as a whole number with no decimal figure.

Conductivity Acceptance criteria  $\pm 5\%$

| pH DEP SOP FT 1100 | Name                 | Date           | Time CT-ET  | Lot #          | Expir. Date    | pH Buffer SU | Meter reading SU | mV            | Pass / Fail | Lab / Field |
|--------------------|----------------------|----------------|-------------|----------------|----------------|--------------|------------------|---------------|-------------|-------------|
| Calibr.            | <u>Curtis Mussey</u> | <u>7/27/16</u> | <u>724</u>  | <u>160330B</u> | <u>10/2017</u> | <u>7.000</u> | <u>7.00</u>      | <u>-19.4</u>  | <u>P</u>    | <u>L</u>    |
| Calibr.            | <u>Curtis Mussey</u> | <u>7/27/16</u> | <u>727</u>  | <u>160330A</u> | <u>04/2017</u> | <u>4.01</u>  | <u>4.01</u>      | <u>159.0</u>  | <u>P</u>    | <u>L</u>    |
| Calibr.            | <u>Curtis Mussey</u> | <u>7/27/16</u> | <u>730</u>  | <u>160330C</u> | <u>10/2017</u> | <u>10.01</u> | <u>9.98</u>      | <u>-189.8</u> | <u>P</u>    | <u>L</u>    |
| ICV                | <u>Curtis Mussey</u> | <u>7/27/16</u> | <u>732</u>  | <u>160330A</u> | <u>4/2017</u>  | <u>4.01</u>  | <u>3.99</u>      | <u>158.4</u>  | <u>P</u>    | <u>L</u>    |
| CCV                | <u>Curtis Mussey</u> | <u>7/27/16</u> | <u>1508</u> | <u>160330C</u> | <u>10/2017</u> | <u>10.01</u> | <u>9.97</u>      | <u>-189.2</u> | <u>P</u>    | <u>L</u>    |
| CCV                |                      |                |             |                |                |              |                  |               |             |             |

Report pH with one decimal place; pH Acceptance criteria  $\pm 0.2$  SU;

mV pH7 Range  $0 \pm 50$ ;

mV pH 4 Range  $+180 \pm 50$ ;

mV pH 10 Range  $-180 \pm 50$ ;

Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly)

Date of Last Depth Verification

| Depth Sensor (Daily) | Name | Date | Time CT-ET | Zero the Sensor | ICV Value | Pass / Fail | Lab / Field |
|----------------------|------|------|------------|-----------------|-----------|-------------|-------------|
| Pressure mode in air |      |      |            | 0.000           |           |             |             |

ICV acceptance criteria  $\pm 5\%$  or  $\pm 0.05\text{m}$ , whichever is greater

**Florida Department of Environmental Protection**  
**Central Laboratory Submittal Form**

Caney Branch, Ward Creek, Lake Lafayette Drain and Little River

last revised Apr 7, 2016

Customer: WQAP

Requester: Benjamin Ralys

Field Report Prepared By:

Robert Wiwi

Project ID: SMP

Collected By:

Curtis Musson, Robert Wiwi

Sampling Agency:

FDEP

|                                                                                                   |                                                                                                     |                                                                           |                                                                            |                                                                                 |                                        |                                           |
|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------|-------------------------------------------|
| Location<br><b>Lake Lafayette Drain At Chaires Cross Rd</b>                                       |                                                                                                     | <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab | Collection (comp begin or grab)<br>Date <b>7/27/16</b> Time <b>8:40</b>    | <input checked="" type="checkbox"/> Eastern<br><input type="checkbox"/> Central | Composite end<br>Date _____ Time _____ | Bottle Group(s)<br>(See pg 2)<br><b>B</b> |
| Field ID<br><b>GLWA0013-07272016</b>                                                              | Matrix (type, e.g., Salt, Fresh, etc)<br><b>Fresh</b>                                               | Diss. Oxygen<br><b>2.51</b>                                               | <input checked="" type="checkbox"/> mg/L<br><input type="checkbox"/> % sat | Total Res. Chlorine<br>(mg/L) <b>—</b>                                          |                                        |                                           |
| STORET #<br><b>GLWA0013</b>                                                                       | Temp (C) <b>24.92</b>                                                                               | pH <b>5.61</b>                                                            | Sample Depth <b>0.3</b>                                                    | <input type="checkbox"/> ft<br><input checked="" type="checkbox"/> m            | Sp. Conductance (umho/cm) <b>29</b>    |                                           |
| Latitude <b>30.4318</b><br><input checked="" type="checkbox"/> dd<br><input type="checkbox"/> dms | Longitude <b>-84.1188</b><br><input checked="" type="checkbox"/> dd<br><input type="checkbox"/> dms | Salinity (ppt) <b>0.01</b>                                                | Comments                                                                   |                                                                                 |                                        |                                           |
| Location<br><b>Caney Creek Upstream of US 90</b>                                                  |                                                                                                     | <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab | Collection (comp begin or grab)<br>Date <b>7/27/16</b> Time <b>9:25</b>    | <input checked="" type="checkbox"/> Eastern<br><input type="checkbox"/> Central | Composite end<br>Date _____ Time _____ | Bottle Group(s)<br><b>A, C</b>            |
| Field ID<br><b>GLWA0014-07272016</b>                                                              | Matrix (type, e.g., Salt, Fresh, etc)<br><b>Fresh</b>                                               | Diss. Oxygen<br><b>9.24</b>                                               | <input checked="" type="checkbox"/> mg/L<br><input type="checkbox"/> % sat | Total Res. Chlorine<br>(mg/L) <b>—</b>                                          |                                        |                                           |
| STORET #<br><b>GLWA0014</b>                                                                       | Temp (C) <b>24.60</b>                                                                               | pH <b>7.18</b>                                                            | Sample Depth <b>0.055</b>                                                  | <input type="checkbox"/> ft<br><input checked="" type="checkbox"/> m            | Sp. Conductance (umho/cm) <b>83</b>    |                                           |
| Latitude <b>30.5325</b><br><input checked="" type="checkbox"/> dd<br><input type="checkbox"/> dms | Longitude <b>-83.9501</b><br><input checked="" type="checkbox"/> dd<br><input type="checkbox"/> dms | Salinity (ppt) <b>0.04</b>                                                | Comments                                                                   |                                                                                 |                                        |                                           |
| Location<br><b>Caney Creek Upstream of US 90</b>                                                  |                                                                                                     | <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab | Collection (comp begin or grab)<br>Date <b>7/27/16</b> Time <b>9:25</b>    | <input checked="" type="checkbox"/> Eastern<br><input type="checkbox"/> Central | Composite end<br>Date _____ Time _____ | Bottle Group(s)<br><b>E</b>               |
| Field ID<br><b>GLWA0014D-07272016</b>                                                             | Matrix (type, e.g., Salt, Fresh, etc)<br><b>Fresh</b>                                               | Diss. Oxygen<br><b>9.24</b>                                               | <input checked="" type="checkbox"/> mg/L<br><input type="checkbox"/> % sat | Total Res. Chlorine<br>(mg/L) <b>—</b>                                          |                                        |                                           |
| STORET #<br><b>GLWA0014</b>                                                                       | Temp (C) <b>24.60</b>                                                                               | pH <b>7.18</b>                                                            | Sample Depth <b>0.055</b>                                                  | <input type="checkbox"/> ft<br><input checked="" type="checkbox"/> m            | Sp. Conductance (umho/cm) <b>83</b>    |                                           |
| Latitude <b>30.5325</b><br><input checked="" type="checkbox"/> dd<br><input type="checkbox"/> dms | Longitude <b>-83.9501</b><br><input checked="" type="checkbox"/> dd<br><input type="checkbox"/> dms | Salinity (ppt) <b>0.04</b>                                                | Comments <b>Duplicate</b>                                                  |                                                                                 |                                        |                                           |
| Location<br><b>Caney Creek Upstream of US 90</b>                                                  |                                                                                                     | <input type="checkbox"/> Comp<br><input type="checkbox"/> Grab            | Collection (comp begin or grab)<br>Date <b>7/27/16</b> Time <b>8:25</b>    | <input checked="" type="checkbox"/> Eastern<br><input type="checkbox"/> Central | Composite end<br>Date _____ Time _____ | Bottle Group(s)<br><b>F</b>               |
| Field ID<br><b>GLWA0014B-07272016</b>                                                             | Matrix (type, e.g., Salt, Fresh, etc)<br><b>DI Water</b>                                            | Diss. Oxygen                                                              | <input type="checkbox"/> mg/L<br><input type="checkbox"/> % sat            | Total Res. Chlorine<br>(mg/L)                                                   |                                        |                                           |
| STORET #                                                                                          | Temp (C)                                                                                            | pH                                                                        | Sample Depth                                                               | <input type="checkbox"/> ft<br><input type="checkbox"/> m                       | Sp. Conductance (umho/cm)              |                                           |
| Latitude                                                                                          | Longitude                                                                                           | Salinity (ppt)                                                            | Comments <b>Field Blank</b>                                                |                                                                                 |                                        |                                           |

|                                        |                                  |                 |                                     |                           |                                    |
|----------------------------------------|----------------------------------|-----------------|-------------------------------------|---------------------------|------------------------------------|
| Relinquished By:<br><b>Robert Wiwi</b> | Date/Time<br><b>7/27/16-1440</b> | Shipping Method | Number of Coolers Shipped: <b>2</b> | Received By:<br><b>CU</b> | Date/Time<br><b>2:42pm 7/27/16</b> |
|----------------------------------------|----------------------------------|-----------------|-------------------------------------|---------------------------|------------------------------------|



Request Number: RQ-2016-07-25-47

# Florida Department of Environmental Protection Central Laboratory Submittal Form

Page 1 of 4

Caney Branch, Ward Creek, Lake Lafayette Drain and  
Little River

last revised Apr 7, 2016

Customer: WQAP

Requester: Benjamin Ralys

Field Report Prepared By:

Robert Wiini

Project ID: SMP

Collected By:

Curtis Musson, Robert Wiini

Sampling Agency:

FDEP

|                                                       |                                                                        |                                                                           |                                                                        |                                                                                 |                                                                            |                                  |
|-------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------|
| Location<br>Ward Creek At R 3 West Bridge             |                                                                        | <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab | Collection (comp begin or grab)<br>Date 7/27/16 Time 12:00             | <input checked="" type="checkbox"/> Eastern<br><input type="checkbox"/> Central | Composite end<br>Date Time                                                 | Bottle<br>Group(s)<br>(See pg 2) |
| Field ID<br>303352108354339-07272016                  |                                                                        | Matrix (type, e.g., Salt, Fresh, etc)<br>Fresh                            |                                                                        | Diss. Oxygen<br>0.74                                                            | <input checked="" type="checkbox"/> mg/L<br><input type="checkbox"/> % sat | Total Res. Chlorine<br>(mg/L) —  |
| STORET #<br>303352108354339-07272016 RW               |                                                                        | Temp<br>(C) 24.98                                                         | pH<br>5.75                                                             | Sample<br>Depth 0.3                                                             | <input type="checkbox"/> ft<br><input checked="" type="checkbox"/> m       | Sp. Conductance<br>(umho/cm) 51  |
| Latitude<br>30.564472                                 | <input checked="" type="checkbox"/> dd<br><input type="checkbox"/> dms | Longitude<br>-83.909417                                                   | <input checked="" type="checkbox"/> dd<br><input type="checkbox"/> dms | Salinity<br>(ppt) 0.02                                                          | Comments                                                                   |                                  |
| Location<br>Little River 100 meters upstream of SR 12 |                                                                        | <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab | Collection (comp begin or grab)<br>Date 7/27/16 Time 13:40             | <input checked="" type="checkbox"/> Eastern<br><input type="checkbox"/> Central | Composite end<br>Date Time                                                 | Bottle<br>Group(s)               |
| Field ID<br>GLWA0020-07272016                         |                                                                        | Matrix (type, e.g., Salt, Fresh, etc)<br>Fresh                            |                                                                        | Diss. Oxygen<br>8.43                                                            | <input checked="" type="checkbox"/> mg/L<br><input type="checkbox"/> % sat | Total Res. Chlorine<br>(mg/L) —  |
| STORET #<br>GLWA0020                                  |                                                                        | Temp<br>(C) 26.50                                                         | pH<br>6.79                                                             | Sample<br>Depth 0.3                                                             | <input type="checkbox"/> ft<br><input checked="" type="checkbox"/> m       | Sp. Conductance<br>(umho/cm) 117 |
| Latitude<br>30.5882                                   | <input checked="" type="checkbox"/> dd<br><input type="checkbox"/> dms | Longitude<br>-84.4957                                                     | <input checked="" type="checkbox"/> dd<br><input type="checkbox"/> dms | Salinity<br>(ppt) 0.05                                                          | Comments                                                                   |                                  |
| Location                                              |                                                                        | <input type="checkbox"/> Comp<br><input type="checkbox"/> Grab            | Collection (comp begin or grab)<br>Date Time                           | <input type="checkbox"/> Eastern<br><input type="checkbox"/> Central            | Composite end<br>Date Time                                                 | Bottle<br>Group(s)               |
| Field ID                                              |                                                                        | Matrix (type, e.g., Salt, Fresh, etc)                                     |                                                                        | Diss. Oxygen                                                                    | <input type="checkbox"/> mg/L<br><input type="checkbox"/> % sat            | Total Res. Chlorine<br>(mg/L)    |
| STORET #                                              |                                                                        | Temp<br>(C)                                                               | pH                                                                     | Sample<br>Depth                                                                 | <input type="checkbox"/> ft<br><input type="checkbox"/> m                  | Sp. Conductance<br>(umho/cm)     |
| Latitude                                              | <input type="checkbox"/> dd<br><input type="checkbox"/> dms            | Longitude                                                                 | <input type="checkbox"/> dd<br><input type="checkbox"/> dms            | Salinity<br>(ppt)                                                               | Comments                                                                   |                                  |
| Location                                              |                                                                        | <input type="checkbox"/> Comp<br><input type="checkbox"/> Grab            | Collection (comp begin or grab)<br>Date Time                           | <input type="checkbox"/> Eastern<br><input type="checkbox"/> Central            | Composite end<br>Date Time                                                 | Bottle<br>Group(s)               |
| Field ID                                              |                                                                        | Matrix (type, e.g., Salt, Fresh, etc)                                     |                                                                        | Diss. Oxygen                                                                    | <input type="checkbox"/> mg/L<br><input type="checkbox"/> % sat            | Total Res. Chlorine<br>(mg/L)    |
| STORET #                                              |                                                                        | Temp<br>(C)                                                               | pH                                                                     | Sample<br>Depth                                                                 | <input type="checkbox"/> ft<br><input type="checkbox"/> m                  | Sp. Conductance<br>(umho/cm)     |
| Latitude                                              | <input type="checkbox"/> dd<br><input type="checkbox"/> dms            | Longitude                                                                 | <input type="checkbox"/> dd<br><input type="checkbox"/> dms            | Salinity<br>(ppt)                                                               | Comments                                                                   |                                  |

|                                  |                            |                 |                                 |                   |                             |
|----------------------------------|----------------------------|-----------------|---------------------------------|-------------------|-----------------------------|
| Relinquished By:<br>Robert Wiini | Date/Time<br>7/27/16-14:40 | Shipping Method | Number of Coolers Shipped:<br>2 | Received By:<br>W | Date/Time<br>7/27/16 2:42pm |
|----------------------------------|----------------------------|-----------------|---------------------------------|-------------------|-----------------------------|

|          |              |         |                 |               |               |                                     |   |
|----------|--------------|---------|-----------------|---------------|---------------|-------------------------------------|---|
| Group: A | Bottle Type: | P-1L    | # of Bottles: 1 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 1 |
|          | ALKALINITY   |         |                 |               |               |                                     |   |
|          | TURBIDITY    |         |                 |               |               |                                     |   |
|          | W-CL-IC      |         |                 |               |               |                                     |   |
|          | W-COLOR      |         |                 |               |               |                                     |   |
|          | W-F          |         |                 |               |               |                                     |   |
|          | W-TDS        |         |                 |               |               |                                     |   |
|          | W-TSS        |         |                 |               |               |                                     |   |
| Group: A | Bottle Type: | BP-1L   | # of Bottles: 1 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 1 |
|          | CHLSUITE-W   |         |                 |               |               |                                     |   |
| Group: A | Bottle Type: | P-500ML | # of Bottles: 1 | Preservative: | HNO3          | Enter Number of Bottles Sent to Lab | 1 |
|          | W-ICP        |         |                 |               |               |                                     |   |
|          | W-ICPMS      |         |                 |               |               |                                     |   |
| Group: A | Bottle Type: | P-500ML | # of Bottles: 1 | Preservative: | ICE And H2SO4 | Enter Number of Bottles Sent to Lab | 1 |
|          | W-NH3        |         |                 |               |               |                                     |   |
|          | W-NO2NO3     |         |                 |               |               |                                     |   |
|          | W-S-A-TP     |         |                 |               |               |                                     |   |
|          | W-TKN        |         |                 |               |               |                                     |   |
|          | W-TOC        |         |                 |               |               |                                     |   |
| Group: A | Bottle Type: | P-125ML | # of Bottles: 1 | Preservative: | ICE-FLTR      | Enter Number of Bottles Sent to Lab | 1 |
|          | W-PO4-F      |         |                 |               |               |                                     |   |
| Group: B | Bottle Type: | P-1L    | # of Bottles: 3 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 3 |
|          | ALKALINITY   |         |                 |               |               |                                     |   |
|          | TURBIDITY    |         |                 |               |               |                                     |   |
|          | W-CL-IC      |         |                 |               |               |                                     |   |
|          | W-COLOR      |         |                 |               |               |                                     |   |
|          | W-F          |         |                 |               |               |                                     |   |
|          | W-TDS        |         |                 |               |               |                                     |   |
|          | W-TSS        |         |                 |               |               |                                     |   |
| Group: B | Bottle Type: | BP-1L   | # of Bottles: 3 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 3 |
|          | CHLSUITE-W   |         |                 |               |               |                                     |   |
| Group: B | Bottle Type: | P-500ML | # of Bottles: 3 | Preservative: | ICE And H2SO4 | Enter Number of Bottles Sent to Lab | 3 |
|          | W-NH3        |         |                 |               |               |                                     |   |



|          |              |         |                 |                             |                                     |   |
|----------|--------------|---------|-----------------|-----------------------------|-------------------------------------|---|
| Group: B | Bottle Type: | P-500ML | # of Bottles: 3 | Preservative: ICE And H2SO4 | Enter Number of Bottles Sent to Lab | 3 |
|          | W-NO2NO3     |         |                 |                             |                                     |   |
|          | W-S-A-TP     |         |                 |                             |                                     |   |
|          | W-TKN        |         |                 |                             |                                     |   |
|          | W-TOC        |         |                 |                             |                                     |   |
| Group: B | Bottle Type: | P-125ML | # of Bottles: 3 | Preservative: ICE-FLTR      | Enter Number of Bottles Sent to Lab | 3 |
|          | W-PO4-F      |         |                 |                             |                                     |   |
| Group: C | Bottle Type: | PJ-2L   | # of Bottles: 2 | Preservative: Formalin      | Enter Number of Bottles Sent to Lab | 3 |
|          | MI-FW-QLDC   |         |                 |                             |                                     |   |
| Group: D | Bottle Type: | PT-50ML | # of Bottles: 1 | Preservative: ICE           | Enter Number of Bottles Sent to Lab | 0 |
|          | ALGAL_ID     |         |                 |                             |                                     |   |
| Group: E | Bottle Type: | P-1L    | # of Bottles: 1 | Preservative: ICE           | Enter Number of Bottles Sent to Lab | 1 |
|          | ALKALINITY   |         |                 |                             |                                     |   |
|          | TURBIDITY    |         |                 |                             |                                     |   |
|          | W-CL-IC      |         |                 |                             |                                     |   |
|          | W-COLOR      |         |                 |                             |                                     |   |
|          | W-F          |         |                 |                             |                                     |   |
|          | W-TDS        |         |                 |                             |                                     |   |
|          | W-TSS        |         |                 |                             |                                     |   |
| Group: E | Bottle Type: | BP-1L   | # of Bottles: 1 | Preservative: ICE           | Enter Number of Bottles Sent to Lab | 1 |
|          | CHLSUITE-W   |         |                 |                             |                                     |   |
| Group: E | Bottle Type: | P-500ML | # of Bottles: 1 | Preservative: HNO3          | Enter Number of Bottles Sent to Lab | 1 |
|          | W-ICP        |         |                 |                             |                                     |   |
|          | W-ICPMS      |         |                 |                             |                                     |   |
| Group: E | Bottle Type: | P-500ML | # of Bottles: 1 | Preservative: ICE And H2SO4 | Enter Number of Bottles Sent to Lab | 1 |
|          | W-NH3        |         |                 |                             |                                     |   |
|          | W-NO2NO3     |         |                 |                             |                                     |   |
|          | W-S-A-TP     |         |                 |                             |                                     |   |
|          | W-TKN        |         |                 |                             |                                     |   |
|          | W-TOC        |         |                 |                             |                                     |   |
| Group: E | Bottle Type: | P-125ML | # of Bottles: 1 | Preservative: ICE-FLTR      | Enter Number of Bottles Sent to Lab | 1 |
|          | W-PO4-F      |         |                 |                             |                                     |   |

|          |              |         |                 |               |               |                                     |   |
|----------|--------------|---------|-----------------|---------------|---------------|-------------------------------------|---|
| Group: F | Bottle Type: | P-1L    | # of Bottles: 1 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 1 |
|          | ALKALINITY   |         |                 |               |               |                                     |   |
|          | TURBIDITY    |         |                 |               |               |                                     |   |
|          | W-CL-IC      |         |                 |               |               |                                     |   |
|          | W-COLOR      |         |                 |               |               |                                     |   |
|          | W-F          |         |                 |               |               |                                     |   |
|          | W-TDS        |         |                 |               |               |                                     |   |
|          | W-TSS        |         |                 |               |               |                                     |   |
| Group: F | Bottle Type: | BP-1L   | # of Bottles: 1 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 1 |
|          | CHLSUITE-W   |         |                 |               |               |                                     |   |
| Group: F | Bottle Type: | P-500ML | # of Bottles: 1 | Preservative: | HNO3          | Enter Number of Bottles Sent to Lab | 1 |
|          | W-ICP        |         |                 |               |               |                                     |   |
|          | W-ICPMS      |         |                 |               |               |                                     |   |
| Group: F | Bottle Type: | P-500ML | # of Bottles: 1 | Preservative: | ICE And H2SO4 | Enter Number of Bottles Sent to Lab | 1 |
|          | W-NH3        |         |                 |               |               |                                     |   |
|          | W-NO2NO3     |         |                 |               |               |                                     |   |
|          | W-S-A-TP     |         |                 |               |               |                                     |   |
|          | W-TKN        |         |                 |               |               |                                     |   |
|          | W-TOC        |         |                 |               |               |                                     |   |
| Group: F | Bottle Type: | P-125ML | # of Bottles: 1 | Preservative: | ICE-FLTR      | Enter Number of Bottles Sent to Lab | 1 |
|          | W-PO4-F      |         |                 |               |               |                                     |   |



**Cooler Packing Worksheet for Request: RQ-2016-07-25-47**  
**Caney Branch, Ward Creek, Lake Lafayette Drain and Little River**

**Ship Cooler On: 7/11/2016**  
**Customer/Project: WQAP/SMP**

Requester: Benjamin Ralys  
Priority: 3

850-245-8443  
2600 Blair Stone Rd  
MS #3560  
Tallahassee, FL 32399-2400  
  
Attn: Benjamin Ralys

**Comments:**

No preservatives needed.

Bottle Group A: freshwater kits including metals  
Bottle Group B: freshwater kits no metals  
Bottle Group C: Biology SCI  
Bottle Group D: Biology Algal ID  
Bottle Group E: 1 duplicate of bottle group A  
Bottle Group F: 1 field blank of bottle group A.

4 - liters of DI water in HDPE bottles

**Requested Analyses:**

---

**Bottle Group: A**

**# of Sites: 1**

**Container ID: P-1L**

**Qty: 1      Preservation: ICE**

**Lot #** 00065181

**Description: Plastic Bottle 1L**

**Analysis**

ALKALINITY  
TURBIDITY  
W-CL-IC  
W-COLOR  
W-F  
W-TDS  
W-TSS

**Description**

Alkalinity in aqueous matrices as mg CaCO3/L  
Turbidity in aqueous matrices  
Chloride in aqueous matrices  
True Color measured at 450 nm  
Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)  
Total Dissolved Solids in aqueous matrices  
Total Suspended Solids in aqueous matrices

---

**Container ID: BP-1L**

**Qty: 1      Preservation: ICE**

**Lot #** 1170333

**Description: Brown Plastic Bottle 1L**

**Analysis**

CHLSUITE-W

**Description**

Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry

Container ID: P-500ML

Qty: 1 Preservation: HNO3

Lot # 00065372

Description: Plastic Bottle 500 mL

Affix RED nitric acid dot to container.

**Analysis**

W-ICP

W-ICPMS

**Description**

Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects

Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

Container ID: P-500ML

Qty: 1 Preservation: ICE And H2SO4

Lot # 00065372

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

**Analysis**

W-NH3

W-NO2NO3

W-S-A-TP

W-TKN

W-TOC

**Description**

Ammonia in aqueous matrices as mg N/L

Nitrite/Nitrate in aqueous matrices as mg N/L

Total Phosphorus in aqueous matrices as mg P/L

Total Kjeldahl Nitrogen in aqueous matrices

Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML

Qty: 1 Preservation: ICE-FLTR

Lot # 00065035

Description: Plastic Bottle 125 mL

**Analysis**

W-PO4-F

**Description**

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

**Bottle Group: B**

**# of Sites: 3**

Container ID: P-1L

Qty: 3 Preservation: ICE

Lot # 00065181

Description: Plastic Bottle 1L

**Analysis**

ALKALINITY

TURBIDITY

W-CL-IC

W-COLOR

W-F

W-TDS

W-TSS

**Description**

Alkalinity in aqueous matrices as mg CaCO3/L

Turbidity in aqueous matrices

Chloride in aqueous matrices

True Color measured at 450 nm

Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)

Total Dissolved Solids in aqueous matrices

Total Suspended Solids in aqueous matrices



Container ID: BP-1L

Qty: 3 Preservation: ICE

Lot # 1170333

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry

Container ID: P-500ML

Qty: 3 Preservation: ICE And H2SO4

Lot # 50065372

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis

W-NH3

W-NO2NO3

W-S-A-TP

W-TKN

W-TOC

Description

Ammonia in aqueous matrices as mg N/L

Nitrite/Nitrate in aqueous matrices as mg N/L

Total Phosphorus in aqueous matrices as mg P/L

Total Kjeldahl Nitrogen in aqueous matrices

Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML

Qty: 3 Preservation: ICE-FLTR

Lot # 00064035

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group: C

# of Sites: 1

Container ID: PJ-2L

Qty: 2 Preservation: Formalin

Lot # B70648109

Description: Plastic Jar 2 L

Analysis

MI-FW-QLDC

Description

No. Taxa of FW macroinverts, qual samp, 20 dipnets.

Bottle Group: D

# of Sites: 1

Container ID: PT-50ML

Qty: 1 Preservation: ICE

Lot # 03715003

Description: Plastic Tube 50 mL

Analysis

ALGAL\_ID

Description

Qualitative assessment of algal taxa present without counts

**Bottle Group: E****# of Sites: 1****Container ID: P-1L****Qty: 1    Preservation: ICE****Lot #** 00065181**Description: Plastic Bottle 1L****Analysis**

ALKALINITY

TURBIDITY

W-CL-IC

W-COLOR

W-F

W-TDS

W-TSS

**Description**Alkalinity in aqueous matrices as mg CaCO<sub>3</sub>/L

Turbidity in aqueous matrices

Chloride in aqueous matrices

True Color measured at 450 nm

Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)

Total Dissolved Solids in aqueous matrices

Total Suspended Solids in aqueous matrices

**Container ID: BP-1L****Qty: 1    Preservation: ICE****Lot #** 1170333**Description: Brown Plastic Bottle 1L****Analysis**

CHLSUITE-W

**Description**

Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry

**Container ID: P-500ML****Qty: 1    Preservation: HNO<sub>3</sub>****Lot #** 00065372**Description: Plastic Bottle 500 mL**

Affix RED nitric acid dot to container.

**Analysis**

W-ICP

W-ICPMS

**Description**

Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects

Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

**Container ID: P-500ML****Qty: 1    Preservation: ICE And H<sub>2</sub>SO<sub>4</sub>****Lot #** 00065372**Description: Plastic Bottle 500 mL**

Affix YELLOW sulfuric acid dot to container.

**Analysis**W-NH<sub>3</sub>W-NO<sub>2</sub>NO<sub>3</sub>

W-S-A-TP

W-TKN

W-TOC

**Description**

Ammonia in aqueous matrices as mg N/L

Nitrite/Nitrate in aqueous matrices as mg N/L

Total Phosphorus in aqueous matrices as mg P/L

Total Kjeldahl Nitrogen in aqueous matrices

Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML

Qty: 1 Preservation: ICE-FLTR

Lot # 00064035

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

---

Bottle Group: F

# of Sites: 1

Container ID: P-1L

Qty: 1 Preservation: ICE

Lot # 00065181

Description: Plastic Bottle 1L

Analysis

ALKALINITY

TURBIDITY

W-CL-IC

W-COLOR

W-F

W-TDS

W-TSS

Description

Alkalinity in aqueous matrices as mg CaCO3/L

Turbidity in aqueous matrices

Chloride in aqueous matrices

True Color measured at 450 nm

Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)

Total Dissolved Solids in aqueous matrices

Total Suspended Solids in aqueous matrices

---

Container ID: BP-1L

Qty: 1 Preservation: ICE

Lot # 470333

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry

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Container ID: P-500ML

Qty: 1 Preservation: HNO3

Lot # 00065372

Description: Plastic Bottle 500 mL

Affix RED nitric acid dot to container.

Analysis

W-ICP

W-ICPMS

Description

Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects

Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

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Container ID: P-500ML

Qty: 1 Preservation: ICE And H2SO4

Lot # 00065372

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis

Description



|          |                                                 |
|----------|-------------------------------------------------|
| W-NH3    | Ammonia in aqueous matrices as mg N/L           |
| W-NO2NO3 | Nitrite/Nitrate in aqueous matrices as mg N/L   |
| W-S-A-TP | Total Phosphorus in aqueous matrices as mg P/L  |
| W-TKN    | Total Kjeldahl Nitrogen in aqueous matrices     |
| W-TOC    | Nonpurgeable Organic Carbon in aqueous matrices |

Container ID: P-125ML

Qty: 1 Preservation: ICE-FLTR

Lot # 0064035

Description: Plastic Bottle 125 mL

**Analysis**

W-PO4-F

**Description**

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Cooler Packed By: ATB Date: 7-20-16

DEP Cooler ID #(s): \_\_\_\_\_

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle (1 per cooler)
- ☐ FedEx Bills, if applicable (1 per cooler)
- ☒ Plastic Bags
- ☒ Zip Ties

If Preservation Included:

|          |             |
|----------|-------------|
| ID _____ | Lot # _____ |
| ID _____ | Lot # _____ |
| ID _____ | Lot # _____ |
| ID _____ | Lot # _____ |
| ID _____ | Lot # _____ |

**PLEASE RETURN ALL COOLERS FOR RQ-2016-07-25-47**