



# FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?  
Yes / No

WIN Station Name: Little River at Budd Park

Date: 9/30/2019

WIN/ Field ID: G1WA0094

WBID: 424

Latitude: 30.4907

County: Gadsden

ORG ID: 21FLWQA

Longitude: -84.5276

Receiving Body of Water: Lake Talquin

RQ: 2019-09-30-58

| Sampling Team Members                                                                                                        |                                                                                                               |                                                  |                  |                 | WQ Measurements                         | Sample Collection                                                                                           | Documentation                             | Preservation                             | Preservation Check | Sampling Equipment                                   |                                             |                               |  |  |
|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------------|-----------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------------------|--------------------|------------------------------------------------------|---------------------------------------------|-------------------------------|--|--|
| Blake Spencer                                                                                                                |                                                                                                               |                                                  |                  |                 |                                         | X                                                                                                           |                                           |                                          |                    | <input checked="" type="checkbox"/> Sample Container | <input type="checkbox"/> Van Dorn           | <input type="checkbox"/> Pole |  |  |
| Evelyn Becerra                                                                                                               |                                                                                                               |                                                  |                  |                 | X                                       |                                                                                                             | X                                         |                                          |                    | <input type="checkbox"/> Carboy                      | <input checked="" type="checkbox"/> Syringe |                               |  |  |
|                                                                                                                              |                                                                                                               |                                                  |                  |                 |                                         |                                                                                                             |                                           |                                          |                    | <input type="checkbox"/> Dipper                      | <input type="checkbox"/> Other              |                               |  |  |
|                                                                                                                              |                                                                                                               |                                                  |                  |                 |                                         |                                                                                                             |                                           |                                          |                    | Depth Measured with <u>Water Stick</u>               |                                             |                               |  |  |
|                                                                                                                              |                                                                                                               |                                                  |                  |                 |                                         |                                                                                                             |                                           |                                          |                    | Equipment ID                                         |                                             |                               |  |  |
|                                                                                                                              |                                                                                                               |                                                  |                  |                 |                                         |                                                                                                             |                                           |                                          |                    | Collection Method                                    |                                             |                               |  |  |
|                                                                                                                              |                                                                                                               |                                                  |                  |                 |                                         |                                                                                                             |                                           |                                          |                    | <input checked="" type="checkbox"/> Wading           | <input type="checkbox"/> Canoe/Kayak        |                               |  |  |
|                                                                                                                              |                                                                                                               |                                                  |                  |                 |                                         |                                                                                                             |                                           |                                          |                    | <input type="checkbox"/> From Shore                  | <input type="checkbox"/> Electric Motor     |                               |  |  |
|                                                                                                                              |                                                                                                               |                                                  |                  |                 |                                         |                                                                                                             |                                           |                                          |                    | <input type="checkbox"/> Other                       | <input type="checkbox"/> Gasoline Motor     |                               |  |  |
| Water Level: Dry/ Pooled/ <u>Low</u> / Normal / High / Flooded                                                               |                                                                                                               |                                                  |                  |                 | Meter ID# <u>18J104543</u>              |                                                                                                             |                                           |                                          |                    | Matrix: <u>Fresh</u> / Marine / DI                   |                                             |                               |  |  |
| Photos: Yes/ No                                                                                                              |                                                                                                               | Flow: No Flow / Intertidal / <u>Flowing</u> / NA |                  |                 | Tide: Rising/ Falling/ Slack/ <u>NA</u> |                                                                                                             |                                           | Tide Times: High <u>NA</u> Low <u>NA</u> |                    |                                                      |                                             |                               |  |  |
| Time Zone                                                                                                                    | Time                                                                                                          | Total Depth (m)                                  | Sample Depth (m) | Secchi Disk (m) | DO (mg/L)                               | DO (%SAT)                                                                                                   | pH                                        | Salinity (PPT)                           | Sp COND (µmhos/cm) | Temp. (C°)                                           |                                             |                               |  |  |
| EST                                                                                                                          | <u>1445</u>                                                                                                   | <u>0.5</u>                                       | <u>0.3</u>       | <u>0.3</u>      | <u>6.27</u>                             | <u>79.5</u>                                                                                                 | <u>6.30</u>                               | <u>0.04</u>                              | <u>90.4</u>        | <u>27.9</u>                                          |                                             |                               |  |  |
| CEN                                                                                                                          |                                                                                                               |                                                  |                  |                 |                                         |                                                                                                             |                                           |                                          |                    |                                                      |                                             |                               |  |  |
| Biological Samples Collected: <u>None</u> HA SCI RPS Algae ID LVS LVI Other:                                                 |                                                                                                               |                                                  |                  |                 |                                         |                                                                                                             |                                           |                                          |                    |                                                      |                                             |                               |  |  |
| SBIO ID Numbers:                                                                                                             |                                                                                                               | SBIO-ID:                                         |                  | HA-ID:          |                                         | RPS-ID:                                                                                                     |                                           | Macrophyte-ID:                           |                    | LIMS#:                                               |                                             |                               |  |  |
| Parameter Suite                                                                                                              | Parameter Methods                                                                                             |                                                  |                  |                 |                                         | Preservation                                                                                                |                                           | 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 | <u>SAG129100</u>                         | <u>05/09/20</u>    | <input checked="" type="checkbox"/> <2               |                                             |                               |  |  |
| Metals                                                                                                                       | <input type="checkbox"/> W-ICPMS <input type="checkbox"/> W-ICP                                               |                                                  |                  |                 |                                         | <input type="checkbox"/> Ice                                                                                | <input type="checkbox"/> HNO3             |                                          |                    | <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                                                                     |                                           |                                          |                    |                                                      |                                             |                               |  |  |
| Chlorophyll                                                                                                                  | <input checked="" type="checkbox"/> CHLSUITE-W                                                                |                                                  |                  |                 |                                         | <input checked="" type="checkbox"/> Ice                                                                     |                                           |                                          |                    |                                                      |                                             |                               |  |  |
| Physical/Aggregate (Fresh)                                                                                                   | <input type="checkbox"/> Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W-TDS          |                                                  |                  |                 |                                         | <input type="checkbox"/> Ice                                                                                |                                           |                                          |                    |                                                      |                                             |                               |  |  |
| Physical/Aggregate (Marine)                                                                                                  | <input type="checkbox"/> Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY                                       |                                                  |                  |                 |                                         | <input type="checkbox"/> Ice                                                                                |                                           |                                          |                    |                                                      |                                             |                               |  |  |
| Macroinvertebrates                                                                                                           | <input type="checkbox"/> MI-FW-QLDC                                                                           |                                                  |                  |                 |                                         | <input type="checkbox"/> Formalin                                                                           |                                           |                                          |                    |                                                      |                                             |                               |  |  |
| Periphyton                                                                                                                   | <input type="checkbox"/> ALGAE-ID                                                                             |                                                  |                  |                 |                                         | <input type="checkbox"/> Ice                                                                                |                                           |                                          |                    |                                                      |                                             |                               |  |  |
| Microbiology                                                                                                                 | <input type="checkbox"/> E Coli <input type="checkbox"/> F Coli <input type="checkbox"/> Enterococci          |                                                  |                  |                 |                                         | <input type="checkbox"/> Ice                                                                                |                                           |                                          |                    |                                                      |                                             |                               |  |  |
| Molecular                                                                                                                    | <input type="checkbox"/> PCR-FILTER <input type="checkbox"/> PCR-BacR <input type="checkbox"/> PCR-GULL2      |                                                  |                  |                 |                                         | <input type="checkbox"/> Ice                                                                                |                                           |                                          |                    |                                                      |                                             |                               |  |  |
|                                                                                                                              | <input type="checkbox"/> PCR-HF183 <input type="checkbox"/> PCR-DG3 <input type="checkbox"/> PCR-GFD          |                                                  |                  |                 |                                         | <input type="checkbox"/> Ice                                                                                |                                           |                                          |                    |                                                      |                                             |                               |  |  |
| Tracers                                                                                                                      | <input type="checkbox"/> W-E8321-DI <input type="checkbox"/> W-E8321-MS                                       |                                                  |                  |                 |                                         | <input type="checkbox"/> Ice                                                                                |                                           |                                          |                    |                                                      |                                             |                               |  |  |
| Pesticides                                                                                                                   | <input type="checkbox"/> W-PSNP-TQ <input type="checkbox"/> W-CT-CL-R <input type="checkbox"/> W-E8321-DI     |                                                  |                  |                 |                                         | <input type="checkbox"/> Ice                                                                                |                                           |                                          |                    |                                                      |                                             |                               |  |  |
|                                                                                                                              | <input type="checkbox"/> W-PCL-SQ-R <input type="checkbox"/> WE8321-MS <input type="checkbox"/> W-CARB-AA     |                                                  |                  |                 |                                         | <input type="checkbox"/> Ice                                                                                |                                           |                                          |                    |                                                      |                                             |                               |  |  |
| Phytoplankton                                                                                                                | <input type="checkbox"/> DTY-QN-C <input type="checkbox"/> PKD-QN-C                                           |                                                  |                  |                 |                                         | <input type="checkbox"/> Ice                                                                                |                                           |                                          |                    |                                                      |                                             |                               |  |  |
| <b>Notes:</b><br>Nutrients<br>Metals<br><u>E. Coli Limited Nutrients</u><br>AGP<br><u>10/10/19 Ann AGP/Lim Mtl cancelled</u> |                                                                                                               |                                                  |                  |                 |                                         |                                                                                                             |                                           |                                          |                    |                                                      |                                             |                               |  |  |
| Signature: <u>[Signature]</u>                                                                                                |                                                                                                               |                                                  |                  |                 |                                         | WIN ID / FILED ID → <u>G1WA0094</u><br>Location: <u>Little River Near Budd Park</u><br>Date: <u>9/30/19</u> |                                           |                                          |                    |                                                      |                                             |                               |  |  |

LIMS EVENT ID: WCAP-2019-09-30-02

WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT: 10/12/19

QC Station ID, Field Parameters In LIMS DMT: 10/10/19

Scan/Save Field Sheets (Initials/Date)

Migrate Data to WIN: (Initials/Date)

Verify Data In WIN: (Initials/Date)

Streams AGP

**Customer: WQAP**

## Project ID: SPROJECTS

**Requester:** Julie K. Espy

Field Report Prepared By:

Collected By: Blake Spencer & Evelyn Bocetta

**Sampling Agency:**

|              |                                           |  |                                                              |  |                                  |  |                               |
|--------------|-------------------------------------------|--|--------------------------------------------------------------|--|----------------------------------|--|-------------------------------|
| Location     | WIN ID / FILED ID →<br>G1WA0073           |  | Collection (comp begin or grab)<br>Date 9/30/2019 Time 9:34  |  | Composite end<br>Date mg/L % sat |  | Bottle Group(s)<br>(See pg 2) |
| Field ID     | Little River 100 meters upstream of US 90 |  | Matrix (type, e.g., Salt, Fresh, etc)<br>Fresh               |  | Total Res. Chlorine (mg/L)       |  | A                             |
| WIN/STORET # | Location                                  |  | Temp (C) 24.4 pH 6.71                                        |  | Sample Depth 0.3                 |  |                               |
| Latitude     | dd dms Longitude dd dms                   |  | Salinity (ppt) 0.04                                          |  | Sp. Conductance (umho/cm) 87.0   |  |                               |
| Location     | WIN ID / FILED ID →<br>G1WA0086           |  | Collection (comp begin or grab)<br>Date 9/30/2019 Time 12:01 |  | Composite end<br>Date mg/L % sat |  | Bottle Group(s)               |
| Field ID     | Little River at Highbridge Road           |  | Matrix (type, e.g., Salt, Fresh, etc)<br>Fresh               |  | Total Res. Chlorine (mg/L)       |  | A                             |
| WIN/STORET # | Location                                  |  | Temp (C) 25.4 pH 6.47                                        |  | Sample Depth 0.3                 |  |                               |
| Latitude     | dd dms Longitude dd dms                   |  | Salinity (ppt) 0.04                                          |  | Sp. Conductance (umho/cm) 87.7   |  |                               |
| Location     | WIN ID / FILED ID →<br>G1WA0094           |  | Collection (comp begin or grab)<br>Date 9/30/2019 Time 14:45 |  | Composite end<br>Date mg/L % sat |  | Bottle Group(s)               |
| Field ID     | Little River Near Budd Park               |  | Matrix (type, e.g., Salt, Fresh, etc)<br>Fresh               |  | Total Res. Chlorine (mg/L)       |  | A                             |
| WIN/STORET # | Location                                  |  | Temp (C) 27.9 pH 6.30                                        |  | Sample Depth 0.3                 |  |                               |
| Latitude     | dd dms Longitude dd dms                   |  | Salinity (ppt) 0.04                                          |  | Sp. Conductance (umho/cm) 90.4   |  |                               |
| Location     | WIN ID / FILED ID →<br>G1WA0093           |  | Collection (comp begin or grab)<br>Date 9/30/2019 Time 11:01 |  | Composite end<br>Date mg/L % sat |  | Bottle Group(s)               |
| Field ID     | Richlander Creek at CR 65B                |  | Matrix (type, e.g., Salt, Fresh, etc)<br>Fresh               |  | Total Res. Chlorine (mg/L)       |  | A                             |
| WIN/STORET # | Location                                  |  | Temp (C) 22.8 pH 6.08                                        |  | Sample Depth 0.1                 |  |                               |
| Latitude     | dd dms Longitude dd dms                   |  | Salinity (ppt) 0.03                                          |  | Sp. Conductance (umho/cm) 68.0   |  |                               |

|                                     |                            |                                   |                            |              |           |
|-------------------------------------|----------------------------|-----------------------------------|----------------------------|--------------|-----------|
| Relinquished By: <i>[Signature]</i> | Date/Time<br>9/30/19 15/12 | Shipping Method<br>Hand Delivered | Number of Coolers Shipped: | Received By: | Date/Time |
|-------------------------------------|----------------------------|-----------------------------------|----------------------------|--------------|-----------|

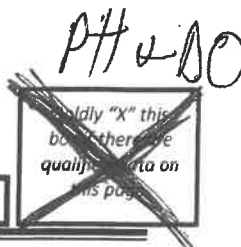
|          |                                                        |          |                  |                                                                                  |                                     |   |
|----------|--------------------------------------------------------|----------|------------------|----------------------------------------------------------------------------------|-------------------------------------|---|
| Group: A | Bottle Type:<br>AA-AGP                                 | OP-500ML | # of Bottles: 18 | Preservative: ICE                                                                | Enter Number of Bottles Sent to Lab | 8 |
| Group: A | Bottle Type:<br>AA-LIM-NUT                             | BP-1L    | # of Bottles: 18 | Preservative: ICE                                                                | Enter Number of Bottles Sent to Lab | 8 |
| Group: A | Bottle Type:<br>CHLSUITE-W                             | BP-1L    | # of Bottles: 9  | Preservative: ICE                                                                | Enter Number of Bottles Sent to Lab | 4 |
| Group: A | Bottle Type:<br>W-NH3<br>W-NO2NO3<br>W-S-A-TP<br>W-TKN | P-500ML  | # of Bottles: 9  | Preservative: ICE And H2SO4<br><b>H2SO4</b><br>LOT# SA9129100<br>EXP: 05/09/2020 | Enter Number of Bottles Sent to Lab | 4 |
| Group: A | Bottle Type:<br>W-PO4-F                                | P-125ML  | # of Bottles: 9  | Preservative: FILTER-ICE                                                         | Enter Number of Bottles Sent to Lab | 4 |

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

Meter ID: 18T104543

RQ: 2019-09-30-54

Project: Acm Stream



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

## Temperature (Quarterly) FT 1400

Date of Last Temperature Verification \_\_\_\_\_

| DO<br>DEP SOP<br>FT 1500 | Name       | Date    | Time<br>CT-ET | Temp<br>°C | Baro-<br>meter<br>mmHg | D.O.<br>Chart<br>mg/L | Meter<br>D.O.<br>mg/L | % DO  | Probe<br>Charge | Probe<br>Gain | Pass<br>/ Fail | Lab<br>/ Field |
|--------------------------|------------|---------|---------------|------------|------------------------|-----------------------|-----------------------|-------|-----------------|---------------|----------------|----------------|
| Calibr.                  | B. Spencer | 9/30/19 | 0716          | 21.2       | 760.0                  | 8.88                  | 8.88                  | 100   | -               | 1.129         | P F            | L F            |
| ICV                      |            | 9/30/19 | 0717          | 21.2       | 760.0                  | 8.98                  | 8.89                  | 100.2 | -               | -             | P F            | L F            |
| CCV                      |            | 9/30/19 | 1650          | 22.6       | 752.6                  | 8.64                  | 9.37                  | 108.5 | -               | -             | P F            | L F            |
| CCV                      |            |         |               |            |                        |                       |                       |       |                 |               | P / F          | L / F          |

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

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

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

| Spec.<br>Cond.<br>FT 1200 | Name       | Date    | Time<br>CT-ET | Lot #   | Expir.<br>Date | Standard<br>$\mu$ mhos/cm | Meter<br>Reading<br>$\mu$ mhos/cm | Pass<br>/ Fail | Lab<br>/ Field |
|---------------------------|------------|---------|---------------|---------|----------------|---------------------------|-----------------------------------|----------------|----------------|
| Calibr.                   | B. Spencer | 9/30/19 | 0720          | 190619F | 06/2020        | 1000                      | 1000                              | P F            | L F            |
| ICV                       |            | 9/30/19 | 0721          | 190619F | 06/2020        | 1000                      | 1000                              | P F            | L F            |
| CCV                       |            | 9/30/19 | 1637          | 2908C81 | 08/2021        | 100                       | 101.9                             | P F            | L F            |
| CCV                       |            |         |               |         |                |                           |                                   | P / F          | L / F          |

Conductivity Acceptance criteria  $\pm 5\%$

| pH<br>DEP SOP<br>FT 1100 | Name       | Date    | Time<br>CT-ET | Lot #   | Expir.<br>Date | pH<br>Buffer<br>SU | Temp<br>°C | Meter<br>reading<br>SU | mV     | Pass<br>/ Fail | Lab<br>/ Field |
|--------------------------|------------|---------|---------------|---------|----------------|--------------------|------------|------------------------|--------|----------------|----------------|
| Calibr.                  | B. Spencer | 9/30/19 | 0726          | 190618B | 12/2020        | 7.01               | 22.3       | 7.01                   | -44.3  | P F            | L F            |
| Calibr.                  |            | 9/30/19 | 0729          | 190618A | 12/2020        | 4.00               | 22.5       | 4.00                   | 129.4  | P F            | L F            |
| Calibr.                  |            | 9/30/19 | 0731          | 190618C | 12/2020        | 10.03              | 22.4       | 10.63                  | -214.0 | P F            | L F            |
| ICV                      |            | 9/30/19 | 0732          | 190618C | 12/2020        | 10.03              | 22.4       | 10.02                  | -213.8 | P F            | L F            |
| CCV                      |            | 9/30/19 | 1646          | 190618A | 12/2020        | 4.00               | 22.5       | 4.30                   | 111.8  | P F            | L F            |
| CCV                      |            |         |               |         |                |                    |            |                        |        | P / F          | L / F          |

pH Acceptance criteria  $\pm 0.2$  SU; mV pH 7 Range  $0 \pm 50$ ;

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

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

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

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

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

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

| Depth Sensor<br>(Daily Calibration &<br>ICV) | Name       | Date    | Time<br>CT-ET | Calibrated<br>Value (0.00 or<br>Offset), meters | ICV Value,<br>meters | Pass /<br>Fail | Lab /<br>Field |
|----------------------------------------------|------------|---------|---------------|-------------------------------------------------|----------------------|----------------|----------------|
| Pressure mode in air                         | B. Spencer | 9/30/19 | 0733          | 0.000                                           | 0.000                | P F            | L F            |

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

COMMENTS:

Cooler Packing Worksheet for Request: RQ-2019-09-30-58

Streams AGP

Ship Cooler On: 9/26/2019

Customer/Project: WQAP/SPPROJECTS

Assigned To: SHAIK\_A

Requester: Julie K. Espy

Priority: 3

850-245-8416  
2600 Blair Stone Rd  
MS #3560  
Tallahassee, FL 32399-2400  
Attn: Julie Espy

Comments:

- 1 - case of sulfuric acid
- 2 - sets of labels

Please note change in bottles for AGP/LIMNUT

Requested Analyses:

**Bottle Group: A**

**# of Sites: 9**

Container ID: OP-500ML Qty: 18 Preservation: ICE

Lot # 1197356

Description: Opaque Plastic Bottle 500mL -  
Biology AGP Analysis

Analysis

AA-AGP

Description

Potential algal growth determination.

Container ID: BP-1L

Qty: 18 Preservation: ICE

Lot # 1259820

Description: Brown Plastic Bottle 1L

Analysis

AA-LIM-NUT

Description

Nutrient(s) limiting algal growth determination.

Container ID: BP-1L

Qty: 9 Preservation: ICE

Lot # 1259820

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 9 Preservation: ICE And H2SO4

Lot # 6607385d

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

**Analysis**

W-NH3

W-NO2NO3

W-S-A-TP

W-TKN

**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

Container ID: P-125ML

Qty: 9 Preservation: FILTER-ICE

Lot # 66075427

Description: Plastic Bottle 125 mL

**Analysis**

W-PO4-F

**Description**

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

Cooler Packed By: ABJ

Number of Coolers: 5

Date: 9-28-19

**Kit must also include:**

- ☒ Field Sheets
- ☒ Temperature Control Bottle
- ☒ FedEx Bills, if applicable
- ☒ Plastic Bags/Zip Ties
- ☒ Acid Labels (sets of 24)

**If Preservation Included:**

|                             |           |             |
|-----------------------------|-----------|-------------|
| ID - <b>H2SO4</b>           | Exp _____ | Lot # _____ |
| ID - LOT# SA9129100         | Exp _____ | Lot # _____ |
| ID - EXP: <u>05/09/2020</u> | Exp _____ | Lot # _____ |
| ID _____                    | Exp _____ | Lot # _____ |
| ID _____                    | Exp _____ | Lot # _____ |

**PLEASE RETURN ALL COOLERS FOR RQ-2019-09-30-58**

## Shaik, Amzad

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**From:** Watts, John  
**Sent:** Tuesday, September 24, 2019 10:08  
**To:** Tintle, Andrew; Shaik, Amzad; Wood-McGrath, Avril  
**Cc:** Spencer, Blake; Ayres, Joshua  
**Subject:** RE: RQ-2019-09-30-58

Andy/Amzad/Avril:

I'm going to modify the RQ to have different bottles for AGP and Limiting nutrients.

It WAS setup for BOTH tests to SHARE 2-2L plastic bottles for each sample. But these bottles are not always new, sometimes they have just been rinsed out. And this is not a test we perform on a regular basis.

SO, I'm going to use:

- 2-500ml opaque for each AGP sample (total 18)
- 2-1L opaque for each LIMNUT sample (total 18), same bottle as we use for chlorophyll
- We need 3-L of sample for each site

John Watts  
FDEP Laboratories  
Environmental Administrator  
245-8077

**From:** Tintle, Andrew <Andrew.Tintle@FloridaDEP.gov>  
**Sent:** Monday, September 23, 2019 3:36 PM  
**To:** Watts, John <John.Watts@FloridaDEP.gov>  
**Subject:** RQ-2019-09-30-58

John –

Asking about the AGP and Limiting Nutrients. I know the RQ says 18 2L bottles are being shipped but just want to confirm because that is what I need. Asking because a 2L bottle is not typical for AGP's but in this case where the limiting nutrients are being done I need 2, 2L bottles for each sample for the AGP and limiting nutrients.

Thanks

Andy



**Andrew R. Tintle**  
Florida Department of Environmental Protection  
FDEP Labs-Biology Program  
[Andrew.Tintle@FloridaDEP.gov](mailto:Andrew.Tintle@FloridaDEP.gov)  
Office: 850.245.8165

## Wood-McGrath, Avril

---

**From:** Gottfreid, Lauren  
**Sent:** Thursday, October 3, 2019 11:26 AM  
**To:** Wood-McGrath, Avril  
**Cc:** Tintle, Andrew; Espy, Julie  
**Subject:** RE: AGP/Llm Nut Samples

Avril,

Alright, thank you for getting back to me. Again, sorry for the inconvenience.

Lauren

**From:** Wood-McGrath, Avril <Avril.Wood-McGrath@FloridaDEP.gov>  
**Sent:** Thursday, October 3, 2019 9:33 AM  
**To:** Gottfreid, Lauren <Lauren.Gottfreid@FloridaDEP.gov>  
**Cc:** Tintle, Andrew <Andrew.Tintle@FloridaDEP.gov>; Espy, Julie <Julie.Espy@dep.state.fl.us>  
**Subject:** RE: AGP/Llm Nut Samples

Hi Lauren,

I'm ccing Julie Espy on this email. Please DO NOT continue the analysis. We will resample and get these back to you asap. Ill let you know more when we figure it out on our end.

Thanks for the heads up!

-Avril

**From:** Gottfreid, Lauren <Lauren.Gottfreid@FloridaDEP.gov>  
**Sent:** Wednesday, October 2, 2019 10:56 AM  
**To:** Wood-McGrath, Avril <Avril.Wood-McGrath@FloridaDEP.gov>  
**Cc:** Tintle, Andrew <Andrew.Tintle@FloridaDEP.gov>  
**Subject:** AGP/Llm Nut Samples

Good afternoon Avril,

We had a couple issues with the samples yesterday. An analyst left the samples out overnight and they were not refrigerated. They also accidentally dumped one sample down the drain while filtering. We should have enough of the lost sample left to run an AGP and a limiting nutrient without EDTA spikes.

If it is ok with you, we can move forward with the tests and add a Y qualifier on the data and run a Lim Nut without EDTA for the lost sample.

Sorry for this inconvenience.

**Lauren Gottfreid**  
Environmental Specialist II  
Toxicology Analyst  
FDEP Labs-Biology Program