



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: G1WA0091 ✓

Date: 09/30/2019
(mm/dd/yyyy)

WIN/ Field ID: Double Branch at CR159

WBID: 630

Latitude: 30.5502

(Decimal Degrees)

County: Gadsden

ORG ID: 21FLWQA

Longitude: -84.4265

(Decimal Degrees)

Receiving Body of Water: Ochlockonee River

RQ- 2019-09-30-58

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Avril Wood-McGrath							✓		✓	✓
Mike Eckles <u>J. Bortchka</u>						✓		✓		

Sampling Equipment	
☒ Sample Container	☐ Van Dorn ☐ Pole
☐ Carboy	☒ Syringe
☐ Dipper	☐ Other
Depth Measured with <u>ProDSS</u>	
Equipment ID <u>153484</u>	

Collection Method	
☒ Wading	☐ Canoe/Kayak
☐ From Shore	☐ Electric Motor
☐ Other	☐ Gasoline Motor

Water Level: Dry/ Pooled/ Low <u>Normal</u> / High / Flooded	Meter ID# <u>153484</u>	Matrix: <u>Fresh</u> / Marine / DI
Photos: <u>Yes</u> / No	Flow: No Flow / Intestinal / <u>Flowing</u> / NA	Tide: Rising/ Falling/ Slack/ <u>NA</u>
Tide Times: High	Low	

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>1035</u> ✓	<u>0.8</u> ✓	<u>0.4</u> ✓	<u>0.3</u> ✓	<u>1.62</u> ✓	<u>19.4</u> ✓	<u>5.78</u> ✓	<u>0.03</u> ✓	<u>56.9</u> ✓	<u>24.5</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 ✓	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☒ H2SO4	<u>9129100</u>	<u>5/9/20</u>	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <2
Filtered Nutrients ✓	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice			
Chlorophyll ✓	☒ CHL-SUITE-W	☒ Ice			
Physical/Aggregate (Fresh)	☐ Alkalinity / W-F / W-TSS / TURBIDITY / W-CI-IC / W-COLOR / W-SO4-IC / W-TDS	☐ Ice			
Physical/Aggregate (Marine)	☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☐ ME-FW-QLDC	☐ Formalin			
Periphyton	☐ ALGAE-ID	☐ Ice			
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococci	☐ Ice			
Molecular	☐ PCR-FILTER ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD	☐ Ice			
Tracers	☐ W-E8321-DI ☐ W-E8321-MS	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI ☐ W-PCL-SQ-R ☐ WE8321-MS ☐ W-CARB-AA	☐ Ice			
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C	☐ Ice			

Notes: + AGP & Lim NOT
10/18/19 - AUM
AGP/Lim NOT cancelled

WIN ID / FILED ID →
G1WA0091

Location: Double Branch at CR159

Signature: [Signature] Date: 9/30/19

LIMS EVENT ID: WQAP-2019-09-30-01

WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT: 10/17/19
(Initials/Date)

QC Station ID, Field Parameters In LIMS DMT: AUM 10/18/19
(Initials/Date)

Scan/Save Field Sheets
(Initials/Date)

Migrate Data to WIN:
(Initials/Date)

Verify Data In WIN:
(Initials/Date)

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: WQAP

Project ID: SPPROJECTS

Requester: Julie K. Espy

Collected By: J. Bortchett, A. Wood-McGrath

Field Report Prepared By: Arril Wood-McGrath

Sampling Agency: FDEP

Location		WIN ID / FILED ID →		G1WA0088		Ochlockonee River Upstream of US 90		Bottle Group(s)	
Field ID	WIN/STORE	Field ID	WIN/STORE	Field ID	WIN/STORE	Field ID	WIN/STORE	Field ID	WIN/STORE
Latitude	Latitude	Latitude	Latitude	Latitude	Latitude	Latitude	Latitude	Latitude	Latitude
Location		WIN ID / FILED ID →		G1WA0091		Double Branch at CR159		Bottle Group(s)	
Field ID	WIN/STORE	Field ID	WIN/STORE	Field ID	WIN/STORE	Field ID	WIN/STORE	Field ID	WIN/STORE
Latitude	Latitude	Latitude	Latitude	Latitude	Latitude	Latitude	Latitude	Latitude	Latitude
Location		WIN ID / FILED ID →		G1WA0090		Ochlockonee River Upstream of 27		Bottle Group(s)	
Field ID	WIN/STORE	Field ID	WIN/STORE	Field ID	WIN/STORE	Field ID	WIN/STORE	Field ID	WIN/STORE
Latitude	Latitude	Latitude	Latitude	Latitude	Latitude	Latitude	Latitude	Latitude	Latitude

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
ANN	9/30/19 14:01	4D	2	[Signature]	9/30/19 1400

Group: A	Bottle Type: AA-AGP	OP-500ML	# of Bottles: 18	Preservative:	ICE	Enter Number of Bottles Sent to Lab	8
Group: A	Bottle Type: AA-LIM-NUT	BP-1L	# of Bottles: 18	Preservative:	ICE	Enter Number of Bottles Sent to Lab	8
Group: A	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 9	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
Group: A	Bottle Type: W-NH3 W-NO2NO3 W-S-A-TP W-TKN	P-500ML	# of Bottles: 9	Preservative: ICE And H2SO4	SA9129100	Enter Number of Bottles Sent to Lab	4
Group: A	Bottle Type: 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)

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

Meter ID: Pro DSS 150484 RQ- 2019-09-30-58 Project: AGM 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 DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro- meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Anil wood-m-south	9/30/19	7:47	22.3	759.9	8.693	8.69	100.0			P/F	L/F
ICV	↓	9/30/19	7:55	22.3	759.1	8.693	8.71	100.1			P/F	L/F
CCV	↓	9/30/19	14:22	23.0	758.7	8.578	8.45	98.4			P/F	L/F
CCV											P/F	L/F

DO Acceptance criteria from Table ± 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. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	Anil wood-m-south	9/30/19	7:56	2908C01	8/21	100	100	P/F	L/F
ICV	↓	↓	8:00	190618F	6/20	1000	1000	P/F	L/F
CCV	↓	↓	8:02	190618F	6/20	997	1000	P/F	L/F
CCV			8:04	2908C01	8/21	102.2	100	P/F	L/F

Conductivity Acceptance criteria ± 5%

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Anil wood-m-south	9/30/19	8:07	190618B	12/20	7.02	22.1	7.02	-67.8	P/F	L/F
Calibr.	↓	↓	8:11	190618A	12/20	4.00	22.3	4.00	109.7	P/F	L/F
Calibr.	↓	↓	8:16	190618C	12/20	10.05	22.3	10.05	-232.7	P/F	L/F
ICV	↓	↓	8:16	190618C	12/20	10.05	22.2	10.01	-232.9	P/F	L/F
CCV			14:14	190618A	12/20	4.00	22.2	4.01	108.6	P/F	L/F
CCV			14:16	190618C	12/20	10.05	22.1	9.95	-230.5	P/F	L/F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50;

mV pH 4 Range +180 ± 50;

mV pH 10 Range -180 ± 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 (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value, meters	Pass / Fail	Lab / Field
Pressure mode in air						P / F	L / F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria ± 5 % or ± 0.05m, 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 # 5507385d

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 # 55175427

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 -	H2SO4	Exp	Lot #
ID -	LOT# SA9129100	Exp	Lot #
ID -	EXP: 05/09/2020	Exp	Lot #
ID		Exp	Lot #
ID		Exp	Lot #

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

Shaik, Amzad

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
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