FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

June 2016

Data Qualified? Yes / (No)

STORET Station Name: Lake Talquin Middle **Date:** 9/22/2016 (mm/dd/yyyy)

STORET Station ID: G1WA0032 **WBID:** 1297D **Latitude:** 30.44904 (Decimal Degrees)

County: Leon **RQ -** 2016-09-19-45 **ORG ID:** 21FLWQA **Longitude:** -84.52323 (Decimal Degrees)

Receiving Body of Water: LAKE TALQUIN **Field ID:** G1WA0032_09222016

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
William Lasley		✓	✓		
Raymond Stuart	✓		✓	✓	✓

Sampling Equipment

- [x] Sample Container
- [ ] Van Dorn
- [ ] Pole
- [ ] Carboy
- [x] Syringe
- [ ] Dipper
- [ ] Other
- Equipment ID

Collection Method

- [ ] Wading
- [ ] From Shore
- [x] Other (note below) From Dock

Via Boat
- [ ] Canoe/Kayak
- [ ] Electric Motor
- [ ] Gasoline Motor

Water Level: Dry / Low / (Normal) / High / Flooded

Matrix: (Fresh) / Marine / DI

Meter ID# Biology #2 **Photos:** Yes / (No)

Tide Falling: Yes / No / (NA)

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. (C⁰)
(EST)	1022	0.3	1.2	6.61	85.1	7.2	0.03	0.8	73	28.3
CEN	1024	0.7		6.39	81.6	7.1	0.03		73	28.1

Biological Samples Collected: None HA SCI LVS RPS LVI Other

Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	[x] W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	[x] Ice [x] H_2SO_4	SA-6209120	7/27/17	[x] <2
Metals	[ ] W-ICPMS [ ] W-ICP	[ ] Ice [ ] HNO_2			[ ] <2
Filtered Nutrients	[x] W-PO4-F [x] Field Filtered 0.45 µm Filter	[x] Ice			
Chlorophyll	[x] CHLSUITE-W	[x] Ice			
Physical/Aggregate (Fresh)	[x] Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS	[x] Ice			
Physical/Aggregate (Marine)	[ ] Alkalinity / W-F / W-TSS / TURBIDITY	[ ] Ice			
Macroinvertebrates	[ ] MI-FW-QLDC	[ ] Formalin			
Microbiology	[ ] E Coli [ ] F Coli [ ] Entero [ ] QPCR	[ ] Ice			
Periphyton	[ ] ALGAE-ID	[ ] Ice			
Pesticides	[x] W-PSNP-TQ [x] W-AHERB-AA [ ] W-PYR-AA-R [x] W-PC-AA-SF [x] W-UHERB-AA [x] W-GLYPH	[x] Ice [ ] Other			

Plac[illegible]ere

Contains 1:1 Sulfuric Acid SA-6209120 EXP: 07/27/17 Warning! See SDS

Notes:

Place Label Here (If Available)

Signature: [signature] **Date:** 9/29/16

Field Parameters Entered into LIMS: DT 9/29/16 (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- 2016-09-19-45 Project SMP

Notes: (1) Numbers ≤4, are rounded down; numbers ≥ 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. Do not record initial 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.	Will Lasley	9/22	0733	21.6	8.81	8.80	99.9	47.1	–	P	L
ICV	Will Lasley	9/22	0735	21.7	8.79	8.78	99.9	47.1	–	P	L
CCV	Will Lasley	9/22	1549	28.6	7.~~80~~ 75	7.80	100.8	-46.6	–	P	L
CCV											

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.
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; 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.	Will Lasley	9/22	0736	160330D	4/2017	1000	~~1002~~ 1000	P	L
ICV	Will Lasley	9/22	0737	160330D	4/2017	1000	1001	P	L
CCV	Will Lasley	9/22	1551	2601533	12/2017	100	103	P	L
CCV									

Report specific conductance as a whole number with no decimal figure. Conductivity Acceptance criteria ± 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.	Will Lasley	9/22	0742	160330B	10/2017	7.0	7.0	-19.9	P	L
Calibr.	Will Lasley	9/22	0744	160330A	4/2017	4.0	4.0	158.9	P	L
Calibr.	Will Lasley	9/22	0746	160330C	10/2017	10.0	10.0	-187.0	P	L
ICV	Will Lasley	9/22	0747	160330C	10/2017	10.0	10.0	-186.7	P	L
CCV	Will Lasley	9/22	1553	160330A	4/2017	4.0	4.0	157.7	P	L
CCV										

Report pH with one decimal place; pH Acceptance criteria ±0.2 SU; mV pH7 Range 0±50; mV pH 4 Range +180±50;
mV pH 10 Range -180±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 ±5 % or ±0.05m, whichever is greater

Request Number: RQ-2016-09-19-45

Central Drainage Ditch, Lake Talquin, Lake Tallavanna and Stafford Creek

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Apr 7, 2016

Customer: WQAP

Project ID: SMP

Requester: Benjamin Ralys

Collected By: RS, WL

Field Report Prepared By: RS, WL

Sampling Agency: 21FLWQA

Location: Central Drainage Ditch	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 9/22/16 Time 0826	Eastern / Central	Composite end Date	Time	Matrix (type, e.g., Salt, Fresh, etc): Fresh	Diss. Oxygen: 4.78 ☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L): —	Bottle Group(s) (See pg 2): A, B		
Field ID: G1WA0026_09222016	STORET #: G1WA0026	Temp (C): 26.7	pH: 7.4	Sample Depth: 0.3 ☐ ft ☒ m	Sp. Conductance (umho/cm): 167	Latitude: 30.4095 ☒ dd ☐ dms	Longitude: -84.3073 ☒ dd ☐ dms	Salinity (ppt): 0.08	Comments		
Location: Meginnis Arm Run Downstream of Shaver	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 9/22/16 Time 0926	Eastern / Central	Composite end Date	Time	Matrix (type, e.g., Salt, Fresh, etc): Fresh	Diss. Oxygen: 4.85 ☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L): —	Bottle Group(s): A		
Field ID: G1WA0033_09222016	STORET #: G1WA0033	Temp (C): 24.9	pH: 7.0	Sample Depth: 0.45 ☐ ft ☒ m	Sp. Conductance (umho/cm): 150	Latitude: 30.4804 ☒ dd ☐ dms	Longitude: -84.2982 ☒ dd ☐ dms	Salinity (ppt): 0.07	Comments		
Location: Lake Talquin Middle	☒ Comp ☐ Grab	Collection (comp begin or grab) Date 9/22/16 Time 1022	Eastern / Central	Composite end Date	Time	Matrix (type, e.g., Salt, Fresh, etc): Fresh	Diss. Oxygen: 6.61 ☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L): —	Bottle Group(s): A, B		
Field ID: G1WA0032_09222016	STORET #: G1WA0032	Temp (C): 28.3	pH: 7.2	Sample Depth: 0.3 ☐ ft ☒ m	Sp. Conductance (umho/cm): 73	Latitude: 30.44904 ☒ dd ☐ dms	Longitude: -84.52323 ☒ dd ☐ dms	Salinity (ppt): 0.03	Comments		
Location: Stafford Creek 100 meters upstream of SR69	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 9/22/16 Time 1146	Eastern / Central	Composite end Date	Time	Matrix (type, e.g., Salt, Fresh, etc): Fresh	Diss. Oxygen: 6.73 ☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L): —	Bottle Group(s): A, B		
Field ID: G2WA0004_09222016	STORET #: G2WA0004	Temp (C): 24.7	pH: 6.7	Sample Depth: 0.3 ☐ ft ☒ m	Sp. Conductance (umho/cm): 72	Latitude: 30.4991 ☒ dd ☐ dms	Longitude: -85.0427 ☒ dd ☐ dms	Salinity (ppt): 0.03	Comments		

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
[signature]	9/22/16				

Request Number: RQ-2016-09-19-45

Central Drainage Ditch, Lake Talquin, Lake Tallavanna and Stafford Creek

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Apr 7, 2016

Customer: WQAP

Project ID: SMP

Requester: Benjamin Ralys

Collected By:

Field Report Prepared By:

Sampling Agency:

Location: Tallavanna Lake		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 9/22/16 Time 1400 (Eastern) Central	Composite end Date Time	Bottle Group(s) (See pg 2): A,B,C
Field ID: G1WA0045-09222016		Matrix (type, e.g., Salt, (Fresh), etc)	Diss. Oxygen 11.23 ☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) —	
STORET #: G1WA0045		Temp (C) 30.9	pH 9.1	Sample Depth 0.3 ☐ ft ☒ m	Sp. Conductance (umho/cm) 263
Latitude: 30.59862 ☒ dd ☐ dms	Longitude: -84.46593 ☒ dd ☐ dms	Salinity (ppt) 0.12	Comments		
Location		☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time Eastern Central	Composite end Date Time	Bottle Group(s)
Field ID		Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
STORET #		Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments		
Location		☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time Eastern Central	Composite end Date Time	Bottle Group(s)
Field ID		Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
STORET #		Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments		
Location		☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time Eastern Central	Composite end Date Time	Bottle Group(s)
Field ID		Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
STORET #		Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments		

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
[illegible]	9/22/2016				

Cooler Packing Worksheet for Request: RQ-2016-09-19-45
Central Drainage Ditch, Lake Talquin, Lake Tallavanna and Stafford Creek
Ship Cooler On: 9/17/2016 Requester: Benjamin Ralys
Customer/Project: WQAP/SMP 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 Chemistry no metals
Bottle Group B: Freshwater Pesticides
Bottle Group C: Phytoplankton
Bottle Group D: PYR

Requested Analyses:

Bottle Group: A **# of Sites: 5**

Container ID: P-1L **Qty: 5** **Preservation: ICE** **Lot #** 00065181
Description: Plastic Bottle 1L

Analysis	Description
ALKALINITY	Alkalinity in aqueous matrices as mg CaCO3/L
TURBIDITY	Turbidity in aqueous matrices
W-CL-IC	Chloride in aqueous matrices
W-COLOR	True Color measured at 450 nm
W-F	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
W-SO4-IC	Sulfate in aqueous matrices
W-TDS	Total Dissolved Solids in aqueous matrices
W-TSS	Total Suspended Solids in aqueous matrices

Container ID: BP-1L **Qty: 5** **Preservation: ICE** **Lot #** 1172350
Description: Brown Plastic Bottle 1L

Analysis	Description
CHLSUITE-W	Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry

Container ID: P-500ML **Qty: 5** **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: 5** **Preservation: ICE-FLTR** **Lot #** 00065781

Description: Plastic Bottle 125 mL

Analysis	Description
W-PO4-F	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group: B # of Sites: 4

Container ID: BG-1L **Qty: 4** **Preservation: ICE** **Lot #** 00065369

Description: Brown Glass Bottle 1L Affix BLUE dot to container.

Analysis	Description
W-AHERB-AA	Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS
W-GLYPH	Glyphosate in water matrices by HPLC/MS/MS
W-UHERB-AA	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS

Container ID: BG-1L **Qty: 10** **Preservation: ICE** **Lot #** 00065369

Description: Brown Glass Bottle 1L Affix BLUE dot to container.

Analysis	Description
W-PC-AA-SF	Organochlorine pesticides (low levels) in water matrices by GC/ECD.

Container ID: BG-1L **Qty: 10** **Preservation: ICE** **Lot #** 00065369

Description: Brown Glass Bottle 1L Affix BLUE dot to container.

Analysis	Description
W-PSNP-TQ	Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS

Bottle Group: C **# of Sites: 1**

Container ID: BP-1L **Qty: 1** **Preservation: Lugols** **Lot #** 1172350

Description: Brown Plastic Bottle 1L

Analysis	Description
DTY-QN-C	No. of diatom taxa of quantitative phytoplankton sample.
PKD-QN-BV	No. of wet taxa of quantitative phytoplankton sample w/speciation and cell counts.

Cooler Packed By: CN Date: 9/14/16

DEP Cooler ID #(s): 6 Coolers

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 N/A Lot # _____
ID _____ Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2016-09-19-45