



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

June 2016

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Data Qualified?

Yes / No

STORET Station Name: Lake Talquin Middle

Date: 8/10/2016

(mm/dd/yyyy)

STORET Station ID: G1WA0032

WBID: 1297D

Latitude: 30.44904

(Decimal Degrees)

County: Leon

RQ - 2016-08-39

ORG ID: 21FLWQA

Longitude: -84.52323

(Decimal Degrees)

Receiving Body of Water: NA

Field ID: G1WA0032

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment			
Ben Ralys					X				☐ Sample Container	☐ Van Dorn	☐ Pole	
Will Lasley				X		X	X	X	☐ Carboy	☒ Syringe		
									☐ Dipper	☐ Other		
									Equipment ID			
									Collection Method			
									☐ Wading	Via Boat		
									☐ From Shore	☒ Canoe/Kayak		
									☒ Other (note below)	☐ Electric Motor		
									From Dock			
									☐ Gasoline Motor			
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	1338	0.3	1.0	5.05	65.9	7.0	0.04	0.75	92	29.3		
CEN	—	—	—	—	—	—	—	—	—	—		
Biological Samples Collected: None HA SCI LVS RPS LVI Other												
Parameter Suite		Parameter Methods				Preservation		Acid Lot#	Expiration	pH Check		
Preserved Nutrients		☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP				☒ Ice ☒ H2SO4		6168040	6/16/17	☒ <2		
Metals		☐ W-ICPMS ☐ W-ICP				☐ Ice ☐ HNO2				☐ <2		
Filtered Nutrients		☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter				☐ Ice						
Chlorophyll		☒ CHLSUITE-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-F / W-TSS / TURBIDITY				☐ Ice						
Macroinvertebrates		☐ MI-FW-QLDC				☐ Formalin						
Microbiology		☐ E Coli ☐ F Coli ☐ Entero ☐ QPCR				☐ Ice						
Periphyton		☐ ALGAE-ID				☐ Ice						
Pesticides		☒ W-PSNP-TQ ☒ W-AHERB-AA ☐ W-PYR-AA-R				☐ Ice						
		☒ W-PC-AA-SF ☒ W-UHERB-AA ☒ W-GLYPH				☐ Other						

Contains
1:1
Sulfuric Acid
SA-6168040
EXP: 06/16/17
Warning!
See SDS

Place P...cker(s) Here

Notes:



G1WA0032

10 Aug 2016

Lake Talquin Middle

Signature:

Ben Ralys

Date:

8/11/16

Field Parameters Entered into LIMS:

(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- 2016-08-08-39

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 Lab Calibration

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.	Ben Rabbs	8/11/16	7:30	22.32	8.69	8.69	100.0	45.1	-	P	L
ICV	Will Lasley	8/11/16	7:45	22.2	8.71	8.76	100.5	45.1	-	P	L
CCV	Will Lasley	8/11/16	1444	29.6	7.61	7.59	99.7	43.1	-	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 μ hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Ben Rabbs	8/11/16	7:53	160330D	4/2017	1,000	1,000	P	L
ICV	Ben Rabbs	8/11/16	7:54	160330D	4/2017	1,000	1,000	P	L
CCV	Will Lasley	8/11/16	1448	2601533	12/2017	100	99	P	L
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.	Ben Rabbs	8/11/16	7:56	160330B	10/2017	7.0	7.0	-21.4	P	L
Calibr.	Ben Rabbs	8/11/16	7:59	160330A	4/2017	4.0	4.0	156.2	P	L
Calibr.	Ben Rabbs	8/11/16	8:00	160330C	10/2017	10.0	10.0	-190.1	P	L
ICV	Ben Rabbs	8/11/16	8:02	160330C	10/2017	10.0	10.0	-89.9	P	L
CCV	Will Lasley	8/11/16	1450	160330A	4/2017	4.0	4.0	159.6	P	L
CCV										

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU;

mV pH7 Range 0 ± 50 ;

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

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 $\pm 5\%$ or ± 0.05 m, whichever is greater

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

Central Laboratory Submittal Form

last revised Apr 7, 2016

Customer: WQAP

Requester: Benjamin Ralys

Field Report Prepared By: William Laster

Project ID: SMP

Collected By: Will Laster / Benjamin Ralys

Sampling Agency: FDER-WQAP-WAS

Location		☐ Comp		Collection (comp begin or grab)		☒ Grab		Date 8/11/16		Time 0730		☒ Central		Composite end		Date -		Time -		Bottle Group(s)	
Field ID		G2WA0026		Matrix (type, e.g., Salt, Fresh, etc)		Fresh		Diss. Oxygen		6.13		☒ mg/L Total Res. Chlorine		-		-		-		(See pg 2)	
STORET #		G1WA0026		Temp (C)		26.5		pH		7.3		Sample Depth		0.3		☒ ft		Sp. Conductance (umho/cm)		103	
Latitude		30.4095		☒ dd		☐ dms		Longitude		-84.3073		☒ dd		☐ dms		Salinity (ppt)		0.05		Comments	
Location		Megginis Arm Run at Neidian Woods		☐ Comp		☒ Grab		Collection (comp begin or grab)		Date 8/11/16		Time 0912		☒ Central		Composite end		Date -		Time -	
Field ID		G1WA0009		Matrix (type, e.g., Salt, Fresh, etc)		Fresh		Diss. Oxygen		6.54		☒ mg/L Total Res. Chlorine		-		-		-		A	
STORET #		G1WA0009		Temp (C)		24.2		pH		7.3		Sample Depth		-		☒ ft		Sp. Conductance (umho/cm)		119	
Latitude		30.481		☒ dd		☐ dms		Longitude		-84.2792		☒ dd		☐ dms		Salinity (ppt)		0.05		Comments	
Location		Tallavanna Lake Middle		☐ Comp		☒ Grab		Collection (comp begin or grab)		Date 8/11/16		Time 1010		☒ Central		Composite end		Date -		Time -	
Field ID		G1WA0045		Matrix (type, e.g., Salt, Fresh, etc)		Fresh		Diss. Oxygen		6.73		☒ mg/L Total Res. Chlorine		-		-		-		A/B/C	
STORET #		G1WA0045		Temp (C)		29.5		pH		8.1		Sample Depth		0.3		☒ ft		Sp. Conductance (umho/cm)		269	
Latitude		30.59862		☒ dd		☐ dms		Longitude		-84.46593		☒ dd		☐ dms		Salinity (ppt)		0.13		Comments	
Location		Stafford Creek 100 meters upstream of SR69		☐ Comp		☒ Grab		Collection (comp begin or grab)		Date 8/11/16		Time 1144		☒ Central		Composite end		Date -		Time -	
Field ID		G2WA0004		Matrix (type, e.g., Salt, Fresh, etc)		Fresh		Diss. Oxygen		6.67		☒ mg/L Total Res. Chlorine		-		-		-		A/B/D	
STORET #		G2WA0004		Temp (C)		24.9		pH		6.5		Sample Depth		0.2		☒ ft		Sp. Conductance (umho/cm)		65	
Latitude		30.4491		☒ dd		☐ dms		Longitude		-85.0426		☒ dd		☐ dms		Salinity (ppt)		0.03		Comments	

Relinquished By:

Date/Time

Shipping Method

Number of Coolers Shipped:

Received By:

Date/Time

Will Laster

8/11/16

8-11-16/2:28

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

last revised Apr 7, 2016

Requester: Benjamin Ralys

Field Report Prepared By:

Collected By: Will Lester / Benjamin Ralys

Sampling Agency: FNEP-WRAP-WHS

[illegible]

Printed: 8/9/2016 11:06:51 AM

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Date of Request: 21-JUL-2016
 Created By: RALYS_B On: 21-JUL-2016
 Modified By: MATTHEWS_D On: 25-JUL-2016
 Customer: WQAP
 Project: SMP
 Division:
 District:
 Sampling Event: Central Drainage Ditch, Lake Talquin, Lake Tallavanna and Stafford Creek

Send Coolers To:

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

Program Module Number:

Priority: 3
 Event Status: S
 Criminal Investigation: NO
 Chemistry Request Reviewed By: WATTS_J On: 21-JUL-2016
 Biology Request Reviewed By: MATTHEWS_D On: 25-JUL-2016
 Sampling Kit Required: YES Ship on: 03-AUG-2016
 Sampling Kit Shipped: YES On: 03-AUG-2016
 Sampling Kit Packed By: SHAIK_A
 Preservatives Needed: NO
 Date to Receive Samples: 10-AUG-2016
 Received By:

Send Final Report To:

2600 Blair Stone Rd
 MS #3560
 Tallahassee, FL 32399-2400
 Attn: Katrina Sanders

Report Type: Final Only
 FTP Data: NO
 QC Report: YES
 Date Log: NO
 Authorization Log: NO

Comments: Bottle Group A: Freshwater Chemistry no metals
 Bottle Group B: Freshwater Pesticides
 Bottle Group C: Phytoplankton
 Bottle Group D: PYR

Bottle Group A (Water) With 5 Samples:

Bottle Type: P-1L	Number of Bottles: 5	Preserved With: ICE
ALKALINITY	Template: DEFAULT	(SM 2320 B-97) Alkalinity in aqueous matrices as mg CaCO ₃ /L
Total Alkalinity		
TURBIDITY	Template: DEFAULT	(EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices
Turbidity		
W-CL-IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Chloride in aqueous matrices
Chloride		
W-COLOR	Template: DEFAULT	(SM 2120 B) True Color measured at 450 nm
Color (true)		
W-F	Template: DEFAULT	(SM 4500 F-C-97) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
Fluoride		
W-SO4-IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Sulfate in aqueous matrices
Sulfate		
W-TDS	Template: DEFAULT	(SM 2540 C-97) Total Dissolved Solids in aqueous matrices
TDS		
W-TSS	Template: DEFAULT	(SM 2540 D-97) Total Suspended Solids in aqueous matrices
TSS		
Bottle Type: BP-1L	Number of Bottles: 5	Preserved With: ICE
CHLSUITE-W	Template: DEFAULT	(SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry
Chlorophyll/Phaeophytin Ratio		
Chlorophyll-a, Corrected		
Chlorophyll-a, Uncorrected		
Phaeophytin-a		
Bottle Type: P-500ML	Number of Bottles: 5	Preserved With: ICE And H ₂ SO ₄
W-NH ₃	Template: DEFAULT	(EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L

Bottle Group A (Water) With 5 Samples:

Bottle Type: P-500ML	Number of Bottles: 5	Preserved With: ICE And H2SO4
W-NH3	Template: DEFAULT	(EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L
Ammonia-N		
W-NO2NO3	Template: DEFAULT	(EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L
NO2NO3-N		
W-S-A-TP	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L
Total-P		
W-TKN	Template: DEFAULT	(EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices
Kjeldahl Nitrogen		
W-TOC	Template: DEFAULT	(SM 5310 B-00) Nonpurgeable Organic Carbon in aqueous matrices
Organic Carbon		
Bottle Type: P-125ML	Number of Bottles: 5	Preserved With: ICE-FLTR
W-PO4-F	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L
O-Phosphate-P		

Bottle Group B (Water) With 4 Samples:

Bottle Type: BG-1L	Number of Bottles: 4	Preserved With: ICE
W-AHERB-AA	Template:	(USGS O-2060-01) Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS
2,4,5-T		
2,4-D		
2,4-DB		
Acifluorfen		
Bentazon		
Dichlorprop		
Dinoseb		
MCPA		
MCPP		
Silvex		
W-GLYPH	Template: DEFAULT	(EPA 8321B) Glyphosate in water matrices by HPLC/MS/MS
*Glyphosate		
W-UHERB-AA	Template:	(USGS O-2060-01) Urea herbicides and other chemicals in water matrices by HPLC/MS/MS
Diuron		
Fenuron		
Imidacloprid		
Linuron		
Bottle Type: BG-1L	Number of Bottles: 10	Preserved With: ICE
W-PC-AA-SF	Template:	(DEP SOP: GC-011-5 (based on EPA 608 and 617)) Organochlorine pesticides (low levels) in water matrices by GC/ECD.
Aldrin		
Alpha-BHC		
Beta-BHC		
Carbophenothion		
Chlorothalonil		
Cypermethrin		
DDD-p,p'		
DDE-p,p'		
DDT-p,p'		
Delta-BHC		
Dicofol		
Dieldrin		
Endosulfan I		
Endosulfan II		
Endosulfan Sulfate		
Endrin		
Endrin Aldehyde		
Gamma-BHC		
Heptachlor		
Heptachlor Epoxide		
Methoxychlor		
Mirex		
Permethrin		
Trifluralin		

Bottle Group B (Water) With 4 Samples:

Bottle Type: BG-1L Number of Bottles: 10 Preserved With: ICE
W-PSNP-TQ Template: (EPA 8270D) Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS

Ametryn
Atrazine
Atrazine Desethyl
Chlorpyrifos Ethyl
Chlorpyrifos Methyl
Disulfoton
EPTC
Ethion
Ethoprop
Fipronil
Hexazinone
Malathion
Metribuzin
Mevinphos
Molinate
Norflurazon
Pendimethalin
Phorate
Prometryn
Simazine
Terbufos
Terbuthylazine

Bottle Group C (Water) With 1 Samples:

Bottle Type: BP-1L Number of Bottles: 1 Preserved With: Lugols
DTY-QN-C Template: DEFAULT (SOP-AB05_1) No. of diatom taxa of quantitative phytoplankton sample.
*Phytoplankton-Quantitative-#Diatom Taxa
PKD-QN-BV Template: DEFAULT (SOP-AB05) No. of wet taxa of quantitative phytoplankton sample w/speciation and cell counts.
*Phytoplankton-Quant Biovolume-#Wet Taxa

* - The laboratory is not NELAP certified for this analyte/method, or certification is not applicable.

Cooler Packing Worksheet for Request: RQ-2016-08-08-39
Central Drainage Ditch, Lake Talquin, Lake Tallavanna and Stafford Creek

Ship Cooler On: 7/25/2016
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 Chemistry no metals
Bottle Group B: Freshwater Pesticides
Bottle Group C: Phytoplankton

Requested Analyses:

Bottle Group: A

of Sites: 5

Container ID: P-1L

Qty: 5 Preservation: ICE

Lot # 00064935

Description: Plastic Bottle 1L

Analysis

ALKALINITY
TURBIDITY
W-CL-IC
W-COLOR
W-F
W-SO4-IC
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)
Sulfate in aqueous matrices
Total Dissolved Solids in aqueous matrices
Total Suspended Solids in aqueous matrices

Container ID: BP-1L

Qty: 5 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: 5 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: 5 Preservation: ICE-FLTR

Lot # 00065393

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: 4

Container ID: BG-1L

Qty: 4 Preservation: ICE

Lot # 00064981

Description: Brown Glass Bottle 1L

Affix BLUE dot to container.

Analysis

W-AHERB-AA
W-GLYPH
W-UHERB-AA

Description

Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS
Glyphosate in water matrices by HPLC/MS/MS
Urea herbicides and other chemicals in water matrices by HPLC/MS/MS

Container ID: BG-1L

Qty: 10 Preservation: ICE

Lot # 00064981

Description: Brown Glass Bottle 1L

Affix BLUE dot to container.

Analysis

W-PC-AA-SF

Description

Organochlorine pesticides (low levels) in water matrices by GC/ECD.

Container ID: BG-1L

Qty: 10 Preservation: ICE

Lot # 00064981

Description: Brown Glass Bottle 1L

Affix BLUE dot to container.

Analysis

W-PSNP-TQ

Description

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 # 170333

Description: Brown Plastic Bottle 1L

Analysis

DTY-QN-C

PKD-QN-BV

Description

No. of diatom taxa of quantitative phytoplankton sample.

No. of wet taxa of quantitative phytoplankton sample w/speciation and cell counts.

Cooler Packed By: AD

Date: 8-1-16

DEP Cooler ID #(s): 5

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-2016-08-08-39