



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

PAGE 2 OF 4 C7

February 2016

Data Qualified?

Yes / No

STORET Station Name: Lake Talquin Middle

Date: 5/19/2016

(mm/dd/yyyy)

STORET Station ID: G1WA0032

Latitude: 30.44904

WBID: 1297D RQ - 2016-05-16-34

ORG ID: ZIFLWQA

Longitude: -84.52323

(Decimal Degrees)

(Decimal Degrees)

Receiving Body of Water: N/A

Field ID: G1WA0032

County: Leon

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Robert Wiwi						✓		✓	✓
Will Lasley					✓		✓		

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☒ Syringe	
☐ Dipper	☐ Other	
Equipment ID		

Collection Method	
☐ Wading	☒ Via Boat
☐ From Shore	☒ Canoe/Kayak
☐ Other (note below)	☐ Electric Motor
	☐ Gasoline Motor

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

Matrix: Fresh / Marine / DI

Meter ID# 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. (C°)
EST	0920	0.3	3.3	8.27	103.4	7.4	0.04	0.6	78	26.8
CEN	0924	2.8		3.46	42.5	6.7	0.04		81	25.8

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	5259020	9/16/16	✓ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice			
Chlorophyll	☒ CHLSUITE-W	☒ Ice			
Physical/Aggregate (Kit A/C)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CH-IC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice			
Physical/Aggregate (Kit B/D)	☐ Alkalinity / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☐ MI-FW-QLDC	☐ Formalin			
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococcus ☐ 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-5259020
EXP: 09/16/16
Warning!
See MSDS

Notes:



G1WA0032 19 May 2016

Lake Talquin Middle

Signature: [Signature]

Date: 5-19-16

Field Parameters Entered into LIMS: CM 5/23/16

Field Parameters QC in LIMS: _____

Date Migrated to STORET: _____

Field Sheets Scanned/Saved: _____

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- 2016-05-16-34 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 03/04/2016

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.	Robert Wini	5/19/16	7:09	22.68	8.627	8.63	100.0	49.2		P	L
ICV	Robert Wini	5/19/16	7:10	22.68	8.627	8.63	100.0	49.2		P	L
CCV	Will Lasley	5/19/16	16:00	29.9	7.57	7.53	99.6	50.2		P	L
CCV	Robert Wini										

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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Robert Wini	5/19/16	7:16	160330D	4/17	1000	1000	P	L
ICV	Robert Wini	5/19/16	7:18	160330D	4/17	1000	1000	P	L
CCV	Will Lasley	5/19/16	16:02	160330D	4/17	1000	1001	P	L
CCV	Robert Wini	5/20/16	7:10	260533	12/17	100	104	P	L

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.	Robert Wini	5/19/16	7:22	160330B	10/17	7.0	7.00	-18.2	P	L
Calibr.	Robert Wini	5/19/16	7:24	154634	7/17	4.0	4.00	162.9	P	L
Calibr.	Robert Wini	5/19/16	7:26	160330C	10/17	10.0	10.00	-184.7	P	L
ICV	Robert Wini	5/19/16	7:30	154634	7/17	4.0	3.98	163.1	P	L
CCV	Will Lasley	5/19/16	16:04	137587	11/15	4.0	4.0	—	P	L
CCV	Robert Wini	5/20/16	7:12	160330C	10/17	10.0	10.02	-186.9	P	L

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 $\pm 0.05m$, whichever is greater

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

Central Laboratory Submittal Form

last revised Apr 7, 2016

Customer: WQAP

Requester: Benjamin Ralys

Field Report Prepared By: Will Lasley

Project ID: SMP

Collected By: Will Lasley / Robert W.W.

Sampling Agency: FDEP - WQAP

Location Central Drainage Ditch downstream Orange Ave		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5-19-16 Time 0815	Eastern Central	Composite end Date - Time -	Bottle Group(s) (See pg 2) A/B	
Field ID GIWA0026		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 3.61	☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L) -
STORET # GIWA0026		Temp (C) 25.1	pH 7.3	Sample Depth 0.07	☐ ft ☒ m		Sp. Conductance (umho/cm) 215
Latitude 30.4095	☒ dd ☐ dms	Longitude -84.3073	☒ dd ☐ dms	Salinity (ppt) 0.10	Comments -		
Location Lake Talquin Middle		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5-19-16 Time 0920	Eastern Central	Composite end Date - Time -	Bottle Group(s) A/B	
Field ID GIWA0032		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 8.27	☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L) -
STORET # GIWA0032		Temp (C) 26.8	pH 7.4	Sample Depth 0.3	☐ ft ☒ m		Sp. Conductance (umho/cm) 78
Latitude 30.449041	☒ dd ☐ dms	Longitude -84.52323	☒ dd ☐ dms	Salinity (ppt) 0.04	Comments -		
Location STAFFORD CREEK 100 m upstream of SR 69		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5-19-16 Time 1206	Eastern Central	Composite end Date - Time -	Bottle Group(s) A/B	
Field ID GZWA0004		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 7.53	☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L) -
STORET # GZWA0004		Temp (C) 23.2	pH 6.9	Sample Depth 0.3	☐ ft ☒ m		Sp. Conductance (umho/cm) 75
Latitude 30.4991	☒ dd ☐ dms	Longitude -85.0427	☒ dd ☐ dms	Salinity (ppt) 0.03	Comments -		
Location TALLAVANNA LAKE Middle		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5-19-16 Time 1415	Eastern Central	Composite end Date - Time -	Bottle Group(s) A/B/C	
Field ID GIWA0045		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 12.58	☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L) -
STORET # GIWA0045		Temp (C) 29.81	pH 9.4	Sample Depth 0.3	☐ ft ☒ m		Sp. Conductance (umho/cm) 138
Latitude 30.59862	☒ dd ☐ dms	Longitude -84.46593	☒ dd ☐ dms	Salinity (ppt) 0.06	Comments Algae visible on surface		

Relinquished By: Lasley / W.W.	Date/Time 5-19-16	Shipping Method Drop / N/A	Number of Coolers Shipped:	Received By: [Signature]	Date/Time 5/19/16 / 1540
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Printed: 5/13/2016 1:31:14 PM

Page 1 of 3

Date of Request: 26-APR-2016
 Created By: RALYS_B On: 26-APR-2016
 Modified By: SWANSON_C On: 26-APR-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: 26-APR-2016
 Biology Request Reviewed By: SWANSON_C On: 26-APR-2016
 Sampling Kit Required: YES Ship on: 09-MAY-2016
 Sampling Kit Shipped: YES On: 09-MAY-2016
 Sampling Kit Packed By: KITCHEN_S
 Preservatives Needed: NO
 Date to Receive Samples: 19-MAY-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: Pesticides
 Bottle Group B: Freshwater no metals
 Bottle Group C: Phytoplankton

Bottle Group A (Water) With 3 Samples:

Bottle Type: BG-1L	Number of Bottles: 3	Preserved With: ICE
W-AHERB-AA	Template: DEFAULT	(USGS O-2060-01) Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS
2,4,5-T		
2,4-D		
Acifluorfen		
Bentazon		
Silvex		
W-GLYPH	Template: DEFAULT	(EPA 8321B) Glyphosate in water matrices by HPLC/MS/MS
*Glyphosate		
W-UHERB-AA	Template: DEFAULT	(USGS O-2060-01) Urea herbicides and other chemicals in water matrices by HPLC/MS/MS
*Acetaminophen		
*Carbamazepine		
*Fluridone		
*Primidone		
Diuron		
Fenuron		
Imidacloprid		
Linuron		

Bottle Type: BG-1L	Number of Bottles: 8	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'		

Bottle Group B (Water) With 3 Samples:

Bottle Type: P-1L	Number of Bottles: 3	Preserved With: ICE
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: 3	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: 3	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: 3	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 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-2016-05-16-34
Central Drainage Ditch, Lake Talquin, Lake Tallavanna and Stafford Creek

Ship Cooler On: 5/2/2016
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: Pesticides
Bottle Group B: Freshwater no metals
Bottle Group C: Phytoplankton

Requested Analyses:

Bottle Group: A

of Sites: 3

Container ID: BG-1L

Qty: 3 Preservation: ICE

Lot # 00064158

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: 8 Preservation: ICE

Lot # 00064158

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: 8 Preservation: ICE

Lot # 00064158

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

Container ID: BG-1L

Qty: 3 Preservation: ICE

Lot # 00064158

Description: Brown Glass Bottle 1L

Analysis

W-PYR-AA-R

Description

Pyraclostrobin in water matrices by HPLC/MS/MS

Bottle Group: B

of Sites: 3

Container ID: P-1L

Qty: 3 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: 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 # 00064521

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 # 00064528

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: BP-1L

Qty: 1 Preservation: Lugols

Lot # 1170333

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: SK

Date: 5-9-16

DEP Cooler ID #(s): 4 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 _____	Lot # _____
ID _____	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2016-05-16-34