



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

June 2016

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Data Qualified?

Yes / No

STORET Station Name: Lake Arrowhead at boat dock at Turtle Crk Ln near outlet

Date: 09/26/2016

(mm/dd/yyyy)

STORET Station ID: G1WA0004

WBID: 564A

Latitude: 30.568517

(Decimal Degrees)

County: LEON

RQ - 2016-09-26-22

ORG ID: 21FLWQA

Longitude: -84.218058

(Decimal Degrees)

Receiving Body of Water: Dianna Chain of Lakes, Ochlockonee R. Field ID: G1WA0004 -09262016

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment			
Curtis Musson									☒ Sample Container	☐ Van Dorn	☐ Pole	
Paul Blair									☐ Carboy	☒ Syringe		
									☐ Dipper	☐ Other		
									Equipment ID			
									Collection Method			
									☐ Wading	Via Boat		
									☐ From Shore	☐ Canoe/Kayak		
									☒ Other (note below)	☐ Electric Motor		
									☒ Dock	☐ Gasoline Motor		
Water Level: Dry / Low / Normal / High / Flooded								Matrix: Fresh / Marine / DI				
Meter ID#				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	9:16	0.3	1.8	6.55	84.5	7.01	0.03	0.8	65	28.6		
CEN	9:15	1.3		6.36	82.2	6.94	0.03		65	28.6		
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		6209120		07/27/17	☒ <2	
Metals		☐ W-ICPMS ☐ W-ICP				☐ Ice ☐ HNO3					☐ <2	
Filtered Nutrients		☒ W-P04-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						
Notes:												
 G1WA0004 26 Sept 2016 Lake Arrowhead at boat dock at Turtle Crk Ln near out												
Signature: Paul Blair								Date: 9-26-16				

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 Bickley #2 RQ- 2016-09-26-22 Project Scp

- 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.	Curtis Mussen	9/26/16	7:29	21.14	8.998	8.99	100.0	45.1	—	P	LAD
ICV	Curtis Mussen	9/26/16	7:30	21.14	8.998	8.99	100.0	46.1	—	P	LAD
CCV	Curtis Mussen	9/26/16	12:31	24.66	8.325	8.50	102.2	46.1	—	P	LAD
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.	Curtis Mussen	9/26/16	7:33	160330D	04/2017	1000	1000	P	LAD
ICV	Curtis Mussen	9/26/16	7:34	160330D	04/2017	1000	1000	P	LAD
CCV	Curtis Mussen	9/26/16	12:33	260533	12/2017	100	105	P	LAD
CCV			12:36						

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.	Curtis Mussen	9/26/16	7:36	160330B	10/2017	7.0	7.00	-23.6	P	LAD
Calibr.	Curtis Mussen	9/26/16	7:38	160330A	04/2017	4.0	4.01	155.4	P	LAD
Calibr.	Curtis Mussen	9/26/16	7:40	160330C	10/2017	10.0	9.98	-191.0	P	LAD
ICV	Curtis Mussen	9/26/16	7:42	160330C	10/2017	9.0	9.95	-191.1	P	LAD
CCV	Curtis Mussen	9/26/16	12:32	160330A	04/2017	4.0	3.99	153.6	P	LAD
CCV										

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

mV pH7 Range 0 $\pm$ 50;

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

mV pH 10 Range -180 $\pm$ 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

Killearn Chain of Lakes Outlet, Alford Arm Tributary and Soapstone Branch

Central Laboratory Submittal Form

last revised Apr 7, 2016

Customer: WQAP

Requester: Benjamin Ralys

Field Report Prepared By:

Project ID: SMP

Collected By: Paul Blair/Curtis Mussion

Sampling Agency:

Paul Blair
FDER/21FLWQA

Location		Killearn Chain of Lakes Outlet @ Velda Dairy Rd		Collection (comp begin or grab)		Date 9-26-16		Time 8:40		Eastern Composite end		Date		Time		Bottle Group(s)	
Field ID	G1WA0015	-09262016		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	5.71	% sat		Total Res. Chlorine	(See pg 2)						
STORET #	G1WA0015																
Latitude	30.53735	dd	Longtitude	-84.22847	dd	Salinity (ppt)	0.03	pH	6.69	Sample Depth	0.1	ft	Sp. Conductance (umho/cm)	76	A		
Location	Lake Accusched @ boat dock @ Turtle Creek																
Field ID	G1WA0004	-09262016		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	6.55	% sat		Total Res. Chlorine							
STORET #	G1WA0004																
Latitude	30.568517	dd	Longtitude	-84.218058	dd	Salinity (ppt)	0.03	pH	7.01	Sample Depth	0.3	ft	Sp. Conductance (umho/cm)	68	A		
Location	Munson Slough @ CR 2204																
Field ID	G1WA0035	-09262016		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	2.97	% sat		Total Res. Chlorine							
STORET #	G1WA0035																
Latitude	30.3243	dd	Longtitude	-84.302	dd	Salinity (ppt)		pH	6.62	Sample Depth	0.3	ft	Sp. Conductance (umho/cm)	63	A		
Location																	
Field ID																	
STORET #																	
Latitude		dd	Longtitude		dd	Salinity (ppt)		pH		Sample Depth		ft	Sp. Conductance (umho/cm)				
Location																	
Field ID																	
STORET #																	
Latitude		dd	Longtitude		dd	Salinity (ppt)		pH		Sample Depth		ft	Sp. Conductance (umho/cm)				

Relinquished By:

Date/Time

Shipping Method

Number of Coolers Shipped:

Received By:

Date/Time

Blair/Mussion

9-26-16 12:08

Hand delivered

ASB

9-26-16/12:08

Cooler Packing Worksheet for Request: RQ-2016-09-26-22
Killearn Chain of Lakes Outlet, Alford Arm Tributary and Soapstone Branch

Ship Cooler On: 9/12/2016
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 kits no metals
Bottle Group B: Algal ID

Bottle Group C: SCI

Requested Analyses:

Bottle Group: A

of Sites: 3

Container ID: P-1L

Qty: 3 Preservation: ICE

Lot # 00065181

Description: Plastic Bottle 1L

Analysis

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

Container ID: BP-1L

Qty: 3 Preservation: ICE

Lot # 1172350

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 # 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: 3 Preservation: ICE-FLTR

Lot # 00064846

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: 1

Container ID: PT-50ML

Qty: 1 Preservation: ICE

Lot # 430897

Description: Plastic Tube 50 mL

Analysis

ALGAL_ID

Description

Qualitative assessment of algal taxa present without counts

Cooler Packed By: SK

Date: 9-19-16

DEP Cooler ID #(s): 1COOLr

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-2016-09-26-22