



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

October 2016

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Data Qualified?

Yes / No

STORET Station Name: Sally Ward Spring at Wakulla Park Dr.

Date: 11/17/2016

(mm/dd/yyyy)

STORET Station ID: G1WA0021

WBID: 1006Y

Latitude: 30.2414

(Decimal Degrees)

County: Wakulla RQ - 2016-11-14-40

ORG ID: 21FLWQA

Longitude: -84.3109

(Decimal Degrees)

Receiving Body of Water: Wakulla River

Field ID: G1WA0021-11172016

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment			
Ben Ralys				X	X	X	X	X	☐ Sample Container	☐ Van Dorn	☐ Pole	
Diana Turner						X			☐ 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				Tide Falling: Yes / No / NA				
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 (umhos/cm)	Temp. (C°)		
EST	8:48	0.3	5.6	3.75	42.0	7.59	0.16	VOB	329	20.75		
CEN	8:51	5.1		3.52	39.4	7.57	0.16		329	20.80		
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 ☐ HNO2					☐ <2	
Filtered Nutrients		☒ W-PO4-F ☒ Field Filtered 0.45 um 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						

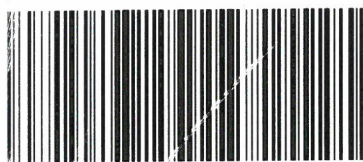
Contains
1:1
Sulfuric Acid
SA-6209120
EXP: 07/27/17
Warning!
See SDS

Alternative Sticker(s) Here
(If Available)

Notes:

Field ID →
Sally Ward
Spring at
Wakulla Park Dr.

Nov 17, 2016



G1WA0021-11172016

Sally Ward Spring at
Wakulla Park Dr.

STORET ↓



G1WA0021

Signature:

[Signature]

Date:

11/17/16

Field Parameters Entered into LIMS:

DT 11/21/16

(Initials/Date)

Field Parameters QC in LIMS:

(Initials/Date)

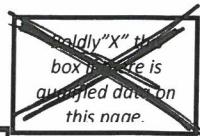
Date Migrated to STORET:

(Initials/Date)

Field Sheets Scanned/Saved:

(Initials/Date)

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)



Meter Biology #2 RQ- 2016-11-14-40 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 09/23/2016

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 Ralys	11/17/16	7:08	20.25	9.056	9.04	99.9	36.9	-	P	L
ICV	Ben Ralys	11/17/16	7:09	20.23	9.056	9.03	99.8	36.9	-	P	L
CCV	Ben Ralys	11/17/16	1:45	21.38	8.86	9.30	105.1	36.9	-	F	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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Ben Ralys	11/17/16	7:11	160330D	04/2017	1,000	1,000	P	L
ICV	Ben Ralys	11/17/16	7:12	160330D	04/2017	1,000	1,001	P	L
CCV	Ben Ralys	11/17/16	1:47	161111E	05/2017	100	101	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 Ralys	11/17/16	7:14	160330B	10/2017	7.0	7.0	-28.0	P	L
Calibr.	Ben Ralys	11/17/16	7:17	160330A	4/2017	4.0	3.99	150.7	P	L
Calibr.	Ben Ralys	11/17/16	7:20	160330C	10/2017	10.0	9.99	-193.6	P	L
ICV	Ben Ralys	11/17/16	7:21	160330C	10/2017	10.0	9.99	-193.3	P	L
CCV	Ben Ralys	11/17/16	1:50	160330A	04/2017	4.0	3.97	152.3	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

Request Number: RQ-2016-11-14-40

Alford Arm Trib, Lake Arrowhead, Sally Ward Spring,
Black Creek and Ochlockonee River

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Page 1 of 3
last revised Apr 7, 2016

Customer: WQAP

Requester: Benjamin Ralys

Field Report Prepared By:

Project ID: SMP

Collected By: Benjamin Ralys Diana Turner

Sampling Agency:

FDERP Diana Turner

Location		Sally Ward Spring @ Lakella Park Dr		Field ID		G1WA0021-11172016		STORET #		G1WA0021		Latitude		30.2414		Longitude		-84.3109		Temp (C)		20.75		pH		7.59		Sample Depth		0.3		Diss. Oxygen		3.75		Total Res. Chlorine		329		Bottle Group(s)		B	
Location		Ochlockonee River 350m upstream SR 12		Field ID		G1WA0042-11172016		STORET #		G1WA0042		Latitude		30.6122		Longitude		-84.3010		Temp (C)		15.42		pH		7.44		Sample Depth		0.3		Diss. Oxygen		11.59		Total Res. Chlorine		198		Bottle Group(s)		A	
Location		Ochlockonee River upstream SR 12		Field ID		G1WA0038-11172016		STORET #		G1WA0038		Latitude		30.67062		Longitude		-84.30511		Temp (C)		15.16		pH		7.46		Sample Depth		0.3		Diss. Oxygen		11.48		Total Res. Chlorine		199		Bottle Group(s)		A	
Location		Lake Arrowhead @ boat dock		Field ID		G1WA0004-11172016		STORET #		G1WA0004		Latitude		30.568517		Longitude		-84.218058		Temp (C)		19.22		pH		7.96		Sample Depth		0.3		Diss. Oxygen		11.84		Total Res. Chlorine		66		Bottle Group(s)		B	

Relinquished By:		Diana Turner		Date/Time		1:20 PM		Shipping Method		Hand Delivery		Number of Coolers Shipped:		2		Received By:		S/C		Date/Time		11/17/16 / 1:19	
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Group: B	Bottle Type:	P-500ML	# of Bottles: 3	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	2
	W-NO2NO3					
	W-S-A-TP					
	W-TKN					
	W-TOC					
Group: B	Bottle Type:	P-125ML	# of Bottles: 3	Preservative: ICE-FLTR	Enter Number of Bottles Sent to Lab	2
	W-PO4-F					

Cooler Packing Worksheet for Request: RQ-2016-11-14-40
Alford Arm Trib, Lake Arrowhead, Sally Ward Spring, Black Creek and Ochlockonee River

Ship Cooler On: 11/14/2016
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 including metals

Bottle Group B: freshwater kits no metals

Requested Analyses:

Bottle Group: A

of Sites: 2

Container ID: P-1L

Qty: 2 Preservation: ICE

Lot # 55065893

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: 2 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: 2 Preservation: HNO3

Lot # 55066045

Description: Plastic Bottle 500 mL

Affix RED nitric acid dot to container.

Analysis

W-ICP

W-ICPMS

Description

Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects

Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

Container ID: P-500ML

Qty: 2 Preservation: ICE And H2SO4

Lot # 55066045

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: 2 Preservation: ICE-FLTR

Lot # 55065781

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: 3

Container ID: P-1L

Qty: 3 Preservation: ICE

Lot # 55065893

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 # 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 # 55065045

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 # 55065781

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Cooler Packed By: ATB

Date: 11-14-16

DEP Cooler ID #(s): 2

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-2016-11-14-40