



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

March 2017

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Data Qualified?

Yes / No

Location/STORET Station Name: Petty Gulf lake Middle

Date: 10/24/2017

(mm/dd/yyyy)

STORET # G1WA0022

WBID: 564C

Latitude: 30.58915

County: Leon

RQ: 2017-07-31-16

ORG ID: 21FLWQA

Longitude: -84.22637

(Decimal Degrees)

Receiving Body of Water: Lake lamonia

Field ID: G1WA0022_10242017

(Decimal Degrees)

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Benjamin Ralys				X	X	X		
Tyler Reynolds							X	X

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 / Pooled / Low / <u>Normal</u> / High / Flooded				Matrix: <u>Fresh</u> / Marine / DI						
Meter ID# 2		Photos: Yes / <u>No</u>		Tide Falling: Yes / No / <u>NA</u>						
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	9:30	0.3	2.0	8.33	98.8	8.06	0.03	1.1	57	23.87
CEN	9:35	1.5		8.12	96.0	7.97	0.03		57	23.88

Biological Samples Collected: None HA SCI RPS Algae ID LVS LVI Other

SBIO ID Numbers: SBIO-ID: RPS-ID: Macrophyte-ID: LIMS#: 1939644

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	SA7233030	8/21/18	☐ <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 (Fresh)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice			
Physical/Aggregate (Marine)	☐ Alkalinity / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☐ MI-FW-QLDC	☐ Formalin			
Periphyton	☐ ALGAE-ID	☐ Ice			
Microbiology	☒ E Coli ☐ F Coli ☐ Enterococci ☐ qPCR	☒ Ice			
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA ☐ W-AHERB-AA	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Ice ☐ Other			

SULFURIC ACID <51%
DANGER
7584-85-8
7732-18-6
Contains 1:1 Sulfuric Acid

May be corrosive to metals. Causes severe skin burns and eye damage. Do not breathe fumes/mist/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing before reuse. IF SWALLOWED: Rinse mouth. Do not induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Store in corrosion resistant container with a resistant inner liner.

Contains 1:1 Sulfuric Acid
Lot No: SA7233030
Expires: 08/21/18
See Safety Data Sheet (SDS)

Notes:

Petty Gulf
lake Middle

STORET ↓

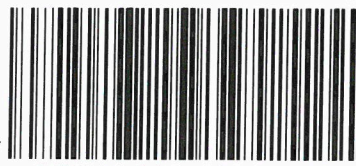


G1WA0022

Field ID →

Petty Gulf
Lake Middle

OCT 24, 2017



G1WA0022_10242017

Signature:

Date:

10/24/17

Field Parameters Entered into LIMS:

CM 10/26/17

(Initials/Date)

Field Parameters QC in LIMS:

4/11/18

Field Sheets Scanned/Saved:

C1

4/13/18

(Initials/Date)

Date Migrated to STORET:

(Initials/Date)

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

Handwritten: Boldly "X" this box if there is qualified data on this page.

Meter ID: Biology #2

RQ: 2017-07-31-16

Project: SMP

- Notes:** (1) Always wait for meter to stabilize before recording any readings.
 (2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Handwritten: DO Fused

Circle/Fill In: Lab Calibration or Calibration/Verification on Site _____

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification _____

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	10/24/17	7:12	21.26	8.88	8.87	100.0	51.2	-	(P) F	(L) F
ICV	Ben Ralys	10/24/17	7:14	21.27	8.88	8.87	100.0	51.2	-	(P) F	(L) F
CCV	Ben Ralys	10/24/17	2:16	21.7	8.79	9.45	107.5	51.2		P (E) F	(L) F
CCV										P / F	L / F

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 Ralys	10/24/17	7:16	170614E	6/2018	1000	1,000	(P) F	(L) F
ICV	Ben Ralys	10/24/17	7:17	170614E	6/2018	1000	1,000	(P) F	(L) F
CCV	Ben Ralys	10/24/17	2:18	170614D	6/2018	100	105	(P) F	(L) F
CCV								P / F	L / F

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	10/24/17	7:19	170614B	12/2018	7.0	6.98	42.2	(P) F	(L) F
Calibr.	Ben Ralys	10/24/17	7:21	171005A	10/2018	4.0	23.82	205.1	(P) F	(L) F
Calibr.	Ben Ralys	10/24/17	7:24	170310C	9/2018	10.0	3.97	212.5	(P) F	(L) F
ICV	Ben Ralys	10/24/17	7:25	170310C	9/2018	10.0	9.91	-106.2	(P) F	(L) F
CCV	Ben Ralys	10/24/17	2:19	170614D	6/2018	4.0	9.84	-105.1	(P) F	(L) F
CCV				170614D	10/2018		4.04	205.8	P / F	L / F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ;

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

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 _____, slope from 4 to 7 _____ (both must be between 165 and 180 mV)

Is meter equipped with depth sensor? Yes / No If yes, list date of last quarterly depth verification _____

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value meters	Pass / Fail	Lab / Field
Pressure mode in air						P / F	L / F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

Request Number: RQ-2017-07-31-16		Requester: Curtis Musson		Field Report Prepared By: Ben Rabbs		Page 2 of 2	
Tallahassee Lakes North		Central Lab Sample Submittal Form		Sampling Agency: FDEP			
Customer: WAS-SECT		Collected By: Ben Rabbs, Tyler Reynolds					
Project ID: SMP							
Location		Collection (comp begin or grab)		Collection (comp begin or grab)		Bottle Group(s)	
Pine Hill		Date 10/24/17 Time 9:10		Date		Time	
Lake Middle		Diss. Oxygen (mg/L) 8.03		Sample Depts (m) 0.03		Sp. Conductance (umho/cm) 42	
Field ID →		pH 7.85				A, B	
ST Pine Hill Lake Middle		Salinity (ppt) 0.02		Comments			
OCT 24, 2017		Latitude (Decimal Degrees) 30.58492		Longitude (Decimal Degrees) -84.2195			
Location		Collection (comp begin or grab)		Collection (comp begin or grab)		Bottle Group(s)	
Upper Dianne		Date 10/24/17 Time 10:25		Date		Time	
Lake Middle		Diss. Oxygen (mg/L) 8.48		Sample Depts (m) 0.3		Sp. Conductance (umho/cm) 93	
Field ID →		pH 8.59				A, B	
ST Upper Dianne Lake Middle		Salinity (ppt) 0.04		Comments			
OCT 24, 2017		Latitude (Decimal Degrees) 30.59986		Longitude (Decimal Degrees) -84.23778			
Location		Collection (comp begin or grab)		Collection (comp begin or grab)		Bottle Group(s)	
Lower Dianne		Date 10/24/17 Time 12:15		Date		Time	
Lake Middle		Diss. Oxygen (mg/L) 9.55		Sample Depts (m) 0.3		Sp. Conductance (umho/cm) 84	
Field ID →		pH 8.97				A, B	
ST Lower Dianne Lake Middle		Salinity (ppt) 0.04		Comments			
OCT 24, 2017		Latitude (Decimal Degrees) 30.59355		Longitude (Decimal Degrees) -84.23534			
Relinquished By: Ben Rabbs		Number of Coolers 2		Received By: J.2		Date/Time 10/24/17 1:35	

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Central Lab Sample Submittal Form

Request Number: RQ-2017-07-31-16
Tallahassee Lakes North
Customer: WAS-SECT
Project ID: SMP

Requester: Curtis Musson

Collected By: Ben Raks, Tyler Reynolds

Field Report Prepared By: Ben Raks
Sampling Agency: FDEP

Collection (comp begin or grab)		Time		Date		Bottle Group(s)	
Comp	Grab	Matrix (Salt, Fresh)	Diss. Oxygen (mg/L)	pH	Sample Depts (m)	Sp. Conductance (umho/cm)	
☐	☒	Fresh	8.59	8.39	0.3	75	A, B
Temp (C)		24.32	Comments				
Salinity (ppt)		0.03					
Latitude (Decimal Degrees)		30.60779		Longitude (Decimal Degrees)		-84.23076	
Collection (comp begin or grab)		Time		Date		Bottle Group(s)	
☐	☒	Fresh	8.10	7.94	0.3	65	A, B
Temp (C)		24.19	Comments				
Salinity (ppt)		0.03					
Latitude (Decimal Degrees)		30.54484		Longitude (Decimal Degrees)		-84.21478	
Collection (comp begin or grab)		Time		Date		Bottle Group(s)	
☐	☒	Fresh	8.33	8.06	0.3	57	A, B
Temp (C)		23.87	Comments				
Salinity (ppt)		0.03					
Latitude (Decimal Degrees)		30.58915		Longitude (Decimal Degrees)		-84.22637	

STREET ↓
Lake Monkey Business Middle
Field ID →
Lake Monkey Business Middle
OCT 24, 2017
GIWA0036_10242017

STREET ↓
Lake Tom John Middle
Field ID →
Lake Tom John Middle
OCT 24, 2017
GIWA0043_10242017

STREET ↓
Petty Gulf Lake Middle
Field ID →
Petty Gulf Lake Middle
OCT 24, 2017
GIWA0022_10242017

Relinquished By: Ben Raks	Date/Time: 10/24/17	Number of Coolers: 2	Received By: [Signature]	Date/Time: 10/24/17 1:30
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Group: A	Bottle Type: P-1L	# of Bottles: 5	Preservative:	ICE	Enter Number of Bottles Sent to Lab	5
	ALKALINITY					
	TURBIDITY					
	W-CL-IC					
	W-COLOR					
	W-F					
	W-SO4-IC					
	W-TDS					
	W-TSS					
Group: A	Bottle Type: BP-1L	# of Bottles: 5	Preservative:	ICE	Enter Number of Bottles Sent to Lab	5
	CHLSUITE-W					
Group: A	Bottle Type: P-500ML	# of Bottles: 5	Preservative: ICE And H2SO4		Enter Number of Bottles Sent to Lab	5
	W-NH3					
	W-NO2NO3					
	W-S-A-TP					
	W-TKN					
	W-TOC					
Group: A	Bottle Type: P-125ML	# of Bottles: 5	Preservative:	ICE-FLTR	Enter Number of Bottles Sent to Lab	5
	W-PO4-F					

Cooler Packing Worksheet for Request: RQ-2017-07-31-16

Tallahassee Lakes North
Ship Cooler On: 7/20/2017
Customer/Project: WAS-SECT/SMP

Assigned To: REAVES_S
Requester: Curtis Musson
Priority: 3

850-245-8453
2600 Blair Stone Rd

Tallahassee, FL 32399

Attn: Curtis Musson

Comments:
No preservatives needed.

Group A: Freshwater Kit

Requested Analyses:

Bottle Group: A

of Sites: 5

Container ID: P-1L

Qty: 5 Preservation: ICE

Lot # 00067591

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 # 1199138

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin 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 # 00068256

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

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

Cooler Packed By: SR

Number of Coolers: 1

Date: 7-20-17

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle
- ☐ FedEx Bills, if applicable
- ☒ Plastic Bags
- ☐ Zip Ties

If Preservation Included:

ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2017-07-31-16