



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

March 2017

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Data Qualified?

Yes / No

Do

Location/STORET Station Name: Lake Monkey Business Middle

Date: 10/24/2017

(mm/dd/yyyy)

STORET # G1WA0036

WBID: 546C

Latitude: 30.60779

(Decimal Degrees)

County: Leon

RQ - 2017-07-31-16

ORG ID: 21FLWQA

Longitude: -84.23076

(Decimal Degrees)

Receiving Body of Water: Lake Iamonia

Field ID: G1WA0036 10242017

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment			
Benjamin Ralys					X	X			☒ Sample Container	☐ Van Dorn	☐ Pole	
Tyler Reynolds							X	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 / Pooled / Low / Normal / High / Flooded

Meter ID# 2

Photos: Yes / No

Matrix: Fresh / Marine / DI

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	11:05	0.3	1.8	8.59	102.8	8.39	0.03	1.0	75	24.32
CEN	11:10	1.3		8.43	100.4	8.23	0.03		75	24.23

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

SBIO ID Numbers: SBIO-ID: RPS-ID: Macrophyte-ID: LIMBS: 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	SA7233080	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-Cl / 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
7664-93-9
7732-18-5
Contains 1.1 Sulfuric Acid
THERMO FISHER SCIENTIFIC
520 NORTH MAIN STREET
MADE, OH 44554
1-800-656-2711
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/face protection. Wash contaminated 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 keep at least 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 corrosive resistant container with a resistant inner liner.

Contains 1.1 Sulfuric Acid
Lot No. SA7233080
Expires 08/21/18
See Safety Data Sheet (SDS)

Notes:

Lake Monkey Business Middle

STORET ↓

G1WA0036

Field ID → Lake Monkey Business Middle

OCT 24, 2017

G1WA0036_10242017

Signature: *Br R*

Date: 10/24/17

Field Parameters Entered into LIMS: *Cn 10/24/17*

(Initials/Date)

Field Parameters QC in LIMS: *SA 4/10/18*

Date Migrated to STORET:

(Initials/Date)

Field Sheets Scanned/Saved: *Cn 4-13-18*

(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 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.

DO
F₂ 100

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/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	1,000	1,000	P/F	L/F
ICV	Ben Ralys	10/24/17	7:17	170614E	6/2018	1,000	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	205.5	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	170614B	6/2018	4.0	9.84	103.1	P/F	L/F
CCV				170614B	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:

Tallahassee Lakes North
Customer: WAS-SECT
Project ID: SMP

Requester: Curtis Musson

Requester: Curtis Musson
Collected By: Ben Rabbs Tyler-Reynolds

Field Report Prepared By: Ben Kaby
Sampling Agency: FDEP

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Loc	Collected By:	Collection (comp begin or grab)	Date	Time	Eastern Central	Collection (comp begin or grab)	Date	Time	Bottle Group(s)
STORET ↓ Pine Hill Lake Middle G1WA0054	Ben Rabes	Comp ☒ Grab	10/24/17	9:10	Eastern Central	Comp ☒ Grab	10/24/17	9:10	A, B
Field ID → Pine Hill Lake Middle OCT 24, 2017 G1WA0054_10242017		Matrix (Salt, Fresh) Fresh	Diss. Oxygen (mg/L) 8.03	pH 7.85	Sample Depts (m) 0.03	Sp. Conductance (umho/cm) 42			
Salinity (ppt) 0.02		Comments							
Latitude (Decimal Degrees) 30.58492		Longitude (Decimal Degrees) -84.2195							
STORET ↓ Upper Dianne Lake Middle G1WA0041	Ben Rabes	Comp ☒ Grab	10/24/17	10:25	Eastern Central	Comp ☒ Grab	10/24/17	10:25	A, B
Field ID → Upper Dianne Lake Middle OCT 24, 2017 G1WA0041_10242017		Matrix (Salt, Fresh) Fresh	Diss. Oxygen (mg/L) 8.48	pH 8.59	Sample Depts (m) 0.3	Sp. Conductance (umho/cm) 93			
Salinity (ppt) 0.04		Comments							
Latitude (Decimal Degrees) 30.59986		Longitude (Decimal Degrees) -84.23778							
STORET ↓ Lower Dianne Lake Middle G1WA0040	Ben Rabes	Comp ☒ Grab	10/24/17	12:15	Eastern Central	Comp ☒ Grab	10/24/17	12:15	A, B
Field ID → Lower Dianne Lake Middle OCT 24, 2017 G1WA0040_10242017		Matrix (Salt, Fresh) Fresh	Diss. Oxygen (mg/L) 9.55	pH 8.97	Sample Depts (m) 0.3	Sp. Conductance (umho/cm) 84			
Salinity (ppt) 0.04		Comments							
Latitude (Decimal Degrees) 30.59355		Longitude (Decimal Degrees) -84.23534							

Relinquished By:	Date/Time	Number of Coolers	Received By:	Date/Time
Ben Rabes	10/24/17	2	J. J.	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 Ralys, Tyler Reynolds

Field Report Prepared By: Ben Ralys
Sampling Agency: FDEP

Loc# Lake Monkey Business Middle Field ID → Lake Monkey Business Middle OCT 24, 2017 STI		Collection (comp begin or grab) Date 10/24/17 Time 11:05 Matrix (Salt, Fresh) Fresh Diss. Oxygen (mg/L) 8.59 pH 8.39 Temp (C) 24.32 Salinity (ppt) 0.03 Latitude (Decimal Degrees) 30.60779		Collection (comp begin or grab) Date — Time — Sample Depts (m) Sp. Conductance (umho/cm) 75 Longitude (Decimal Degrees) -84.23076		Bottle Group(s) A, B	
Loc# Lake Tom John Middle Field ID → Lake Tom John Middle OCT 24, 2017 STI		Collection (comp begin or grab) Date 10/24/17 Time 8:15 Matrix (Salt, Fresh) Fresh Diss. Oxygen (mg/L) 8.10 pH 7.94 Temp (C) 24.19 Salinity (ppt) 0.03 Latitude (Decimal Degrees) 30.54484		Collection (comp begin or grab) Date — Time — Sample Depts (m) Sp. Conductance (umho/cm) 65 Longitude (Decimal Degrees) -84.21478		Bottle Group(s) A, B	
Loc# Petty Gulf Lake Middle Field ID → Petty Gulf Lake Middle OCT 24, 2017 STI		Collection (comp begin or grab) Date 10/24/17 Time 9:30 Matrix (Salt, Fresh) Fresh Diss. Oxygen (mg/L) 8.33 pH 8.06 Temp (C) 23.87 Salinity (ppt) 0.03 Latitude (Decimal Degrees) 30.58915		Collection (comp begin or grab) Date — Time — Sample Depts (m) Sp. Conductance (umho/cm) 57 Longitude (Decimal Degrees) -84.22637		Bottle Group(s) A, B	

Relinquished By: Ben Ralys	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