



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

March 2017

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Data Qualified?

Yes / No

Location/STORET Station Name: Lake Monkey Business Middle

Date: 9/27/17

(mm/dd/yyyy)

STORET # G1WA0036

WBID: 546C

Latitude: 30.60779

(Decimal Degrees)

County: Leon

RQ - 2017-09-25-40

ORG ID: 21FLWQA

Longitude: -84.23076

(Decimal Degrees)

Receiving Body of Water: Lake Iamonia

Field ID: G1WA0036_9272017

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Curtis Musson						X		X	X
Blake Spencer					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 / Normal / High / Flooded

Matrix: Fresh Marine / DI

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	1230	0.3m		9.04	119.5	7.67	04		79	29.91
			2.1m					1.0m		
CEN	1237	1.6m		8.33	108.5	6.72	03		77	29.07

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

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

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	7163030	6/12/18	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☒ Ice ☐ HNO3			☐ <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			
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	☐ Ice			
	☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Other			

Notes:

Kit-A, Bacteria

Lake Monkey
Business
Middle

STORET ↓



G1WA0036

Field ID →

Lake Monkey
Business
Middle

Sept. 27, 2017



G1WA0036_09272017

Signature:

Curtis Musson

Date:

9-27-17

Field Parameters Entered into LIMS: *DT 9/28/17*

(Initials/Date)

Field Parameters QC in LIMS:

(Initials/Date)

Date Migrated to STORET:

(Initials/Date)

Field Sheets Scanned/Saved: *DT 9/28/17*

(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: 2017-09-25-40 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.

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.	Blake Spencer	9/27/17	0727	22.55	8.644	8.65	100.0	51.2		☒ P / ☐ F	☒ L / ☐ F
ICV	Blake Spencer	9/27/17	0729	22.54	8.660	8.65	100.0	52.3		☒ P / ☐ F	☒ L / ☐ F
CCV	Curtis Musson	9/27/17	1613	23.21	8.546	8.64	101.1	53.3		☒ P / ☐ F	☒ L / ☐ F
CCV										P / F	L / F

DO Acceptance criteria from Table ± 0.3 mg/L.

Optical: DO gain range 0.85 to 1.15; DO charge N/A.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

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.	Blake Spencer	9/27/17	0731	170310B	03/2018	1000	1001	☒ P / ☐ F	☒ L / ☐ F
ICV	Blake Spencer	9/27/17	0732	170310D	03/2018	1000	1001	☒ P / ☐ F	☒ L / ☐ F
CCV	Curtis Musson	9/27/17	1608	170614D	06/2018	100	104	☒ 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.	Blake Spencer	9/27/17	0739	170310B	09/2018	7.0	7.00	34.9	☒ P / ☐ F	☒ L / ☐ F
Calibr.	Blake Spencer	9/27/17	0746	170614A	06/2018	4.0	4.00	202.7	☒ P / ☐ F	☒ L / ☐ F
Calibr.	Blake Spencer	9/27/17	0751	170310C	09/2018	10.0	9.99	126.6	☒ P / ☐ F	☒ L / ☐ F
ICV	Blake Spencer	9/27/17	0754	170310C	09/2018	10.0	10.00	126.9	☒ P / ☐ F	☒ L / ☐ F
CCV	Curtis Musson	9/27/17	1610	170614A	06/2018	4.01	4.18	191	☒ P / ☐ F	☒ L / ☐ F
CCV									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 10 161.5, slope from 4 to 7 162.8 (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: 2017-09-25-40
Killbarn Lakes Chain of Lakes
Customer: WAS-SECT
Project ID: SMP

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Central Lab Sample Submittal Form

Requester: Curtis Musson

Collected By: Curtis Musson, Blake Spencer

Page 1 of 3
Field Report Prepared By: Curtis Musson
Sampling Agency: FDEP

Loc

Pine Hill

Field ID →
S1 Pine Hill
Lake Middle



STORRET ↓
G1WA0054

Sept 27, 2017



G1WA0054_09272017

Loc

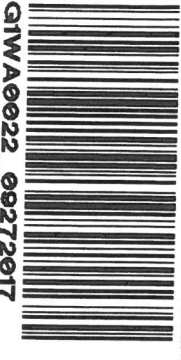
Petty Gulf

Field ID →
P1 Petty Gulf
Lake Middle



STORRET ↓
G1WA0022

Sept 27, 2017



G1WA0022_09272017

Loc

Lower Dianne

Field ID →
S1 Lower Dianne
Lake Middle



STORRET ↓
G1WA0040

Sept 27, 2017



G1WA0040_09272017

Relinquished By:

Curtis Musson

Date/Time

9/27/17 1430

Number of Coolers

2

Received By:

[Signature]

Date/Time

9-27-17 1430

☐ Comp
☒ Grab

Collection (comp begin or grab)
Date 9/27/17 Time 0851

☒ Eastern
☐ Central

Collection (comp begin or grab)
Date / Time /

Bottle Group(s)

Matrix (Salt, Fresh)
Fresh

Diss. Oxygen (mg/L)
7.76

Sample Depts (m)
0.3

Sp. Conductance (umho/cm)
44

AB

Temp (C)
28.78

pH
7.94

Salinity (ppt)
0.02

Comments

AB

Latitude (Decimal Degrees)

Longitude (Decimal Degrees)

☐ Comp
☒ Grab

Collection (comp begin or grab)
Date 9/27/17 Time 1051

☒ Eastern
☐ Central

Collection (comp begin or grab)
Date / Time /

Bottle Group(s)

Matrix (Salt, Fresh)
Fresh

Diss. Oxygen (mg/L)
8.07

Sample Depts (m)
0.3

Sp. Conductance (umho/cm)
58

A, B

Temp (C)
28.85

pH
7.18

Salinity (ppt)
0.03

Comments

A, B

Latitude (Decimal Degrees)

Longitude (Decimal Degrees)

☐ Comp
☒ Grab

Collection (comp begin or grab)
Date 9/27/17 Time 1012

☒ Eastern
☐ Central

Collection (comp begin or grab)
Date / Time /

Bottle Group(s)

Matrix (Salt, Fresh)
Fresh

Diss. Oxygen (mg/L)
8.98

Sample Depts (m)
0.3

Sp. Conductance (umho/cm)
85

A, B

Temp (C)
28.71

pH
8.51

Salinity (ppt)
0.04

Comments
LVI

A, B

Latitude (Decimal Degrees)

Longitude (Decimal Degrees)

Request Number: 2017-09-25-40

Killebrew Lakes Chain of Lakes

Customer: WAS-SECT

Project ID: SMP

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Central Lab Sample Submittal Form

Requester: Curtis Musson

Collected By: Curtis Musson, Blake Stenger

Field Report Prepared By: Curtis Musson
Sampling Agency: FDEP

Loc:

Lake: Tom
John Middle
STORET
GTWA0043

Field ID: →
Lake Tom
John Middle
Sept. 27, 2017
GTWA0043_09272017

☐ Comp ☒ Grab	Collection (comp begin or grab) Date 9/27/17 Time 1344	☒ Grab Date	Collection (comp begin or grab) Date	Time	Bottle Group(s)
Matrix (Salt, Fresh) Fresh	Diss. Oxygen (mg/L) 8.70				
Temp (C) 30.31	pH 6.58				
Salinity (ppt) 0.03	Comments				
Latitude (Decimal Degrees)	Longitude (Decimal Degrees)				
A, B					

Lake: Monkey
Business
Middle
STORET
GTWA0036

Field ID: →
Lake Monkey
Business
Middle
Sept. 27, 2017
GTWA0036_09272017

☐ Comp ☒ Grab	Collection (comp begin or grab) Date 9/27/17 Time 1230	☒ Grab Date	Collection (comp begin or grab) Date	Time	Bottle Group(s)
Matrix (Salt, Fresh) Fresh	Diss. Oxygen (mg/L) 9.04				
Temp (C) 29.91	pH 7.67				
Salinity (ppt) 0.04	Comments				
Latitude (Decimal Degrees)	Longitude (Decimal Degrees)				
A, B					

Upper Dianne
Lake Middle
STORET
GTWA0041

Field ID: →
Upper Dianne
Lake Middle
Sept. 27, 2017
GTWA0041_09272017

☐ Comp ☒ Grab	Collection (comp begin or grab) Date 9/27/17 Time 1148	☒ Grab Date	Collection (comp begin or grab) Date	Time	Bottle Group(s)
Matrix (Salt, Fresh) Fresh	Diss. Oxygen (mg/L) 8.38				
Temp (C) 29.62	pH 7.53				
Salinity (ppt) 0.04	Comments Algae Mat Sampled				
Latitude (Decimal Degrees)	Longitude (Decimal Degrees)				
A, B ALGAL-ITD Added					

Relinquished By: Curtis Musson

Date/Time 9/27/17 / 1430	Number of Coolers 2	Received By: [Signature]	Date/Time 9-27-17 / 1430
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Group: A	Bottle Type:	P-1L	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	6456
	ALKALINITY						
	TURBIDITY						
	W-CL-IC						
	W-COLOR						
	W-F						
	W-SO4-IC						
	W-TDS						
	W-TSS						
Group: A	Bottle Type:	BP-1L	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	6456
	CHLSUITE-W						
Group: A	Bottle Type:	P-500ML	# of Bottles: 6	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	6456
	W-NH3						
	W-NO2NO3						
	W-S-A-TP						
	W-TKN						
	W-TOC						
Group: A	Bottle Type:	P-125ML	# of Bottles: 6	Preservative:	ICE-FLTR	Enter Number of Bottles Sent to Lab	6456
	W-PO4-F						
Group: B	Bottle Type:	P-250ML-WO-THI	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	6456
	ECOL-18QT						

1 Algal-ID Added

1

Cooler Packing Worksheet for Request: RQ-2017-09-25-40

NE TLH Lakes

Ship Cooler On: 9/20/2017

Customer/Project: WAS-SECT/SMP

Assigned To: GREENWOO_J

Requester: Curtis Musson

Priority: 3

850-245-8453

2600 Blair Stone Rd

Tallahassee, FL 32399

Attn: Curtis Musson

Comments:

Group A: Freshwater Kit

Group B: E. coli

Packing Notes:

No FedEx labels needed

1 - case sulfuric acid ✓

Requested Analyses:

Bottle Group: A

of Sites: 6

Container ID: P-1L

Qty: 6 Preservation: ICE

Lot # 00069122

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: 6 Preservation: ICE

Lot # 1204544

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry

Container ID: P-500ML

Qty: 6 Preservation: ICE And H2SO4

Lot # 00068347

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: 6 Preservation: ICE-FLTR

Lot # 00068347

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: 6

Container ID: P-250ML-WO-THI

Qty: 6 Preservation: ICE

Lot # 117048

Description:

Analysis

ECOLI-18QT

Description

Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems

Cooler Packed By: J. Q.

Number of Coolers: 2

Date: 9/22/17

Kit must also include:

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

If Preservation Included:

ID <u>Sulfuric Acid</u>	Exp <u>8/21/18</u>	Lot # <u>SA 7233030</u>
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2017-09-25-40