



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: 9/27/17

(mm/dd/yyyy)

STORET # G1WA0022

WBID: 564C

Latitude: 30.58915

(Decimal Degrees)

County: Leon

RQ - 2017-09-25-40

ORG ID: 21FLWQA

Longitude: -84.22637

(Decimal Degrees)

Receiving Body of Water: Lake Iamonia

Field ID: G1WA0022_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 (µmhos/cm)	Temp. (C°)
EST	1051	0.3	2.8	8.07	104.7	7.18	0.03	1.1	58	28.85
CEN	1100	2.3		7.48	96.8	6.97	0.03		58	28.28

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 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			
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			

Contains 1:1 Sulfuric Acid

Lot No.: SA7163030

Expires: 06/12/18

See Safety Data Sheet (SDS)

Sticker(s) Here

Notes: Kit-A, Bacteria

STORET ↓

Petty Gulf lake Middle

Field ID →

Petty Gulf Lake Middle

Sept. 27, 2017

Signature: [Signature]

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 name.

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 hos/cm	Meter Reading μ hos/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 7 167.8 (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
Killearn 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

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

Loc

Pine Hill

Lake Middle



STORET
ATWA0054

Field ID: →
S1 Pine Hill
Lake Middle

Sept 27, 2017
ATWA0054_09272017

☐ 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				
Temp (C) 28.78	pH 7.94				
Salinity (ppt) 0.02	Comments				
Latitude (Decimal Degrees)					
Longitude (Decimal Degrees)					

Loc

Petty Gulf

Lake Middle



STORET
ATWA0022

Field ID: →
Petty Gulf
Lake Middle

Sept 27, 2017
ATWA0022_09272017

☐ 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) 4.07				
Temp (C) 28.85	pH 7.18				
Salinity (ppt) 0.03	Comments				
Latitude (Decimal Degrees)					
Longitude (Decimal Degrees)					

Loc

Lower Dianne

Lake Middle



STORET
ATWA0040

Field ID: →
STR Lower Dianne
Lake Middle

Sept 27, 2017
ATWA0040_09272017

☐ 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				
Temp (C) 28.71	pH 8.51				
Salinity (ppt) 0.04	Comments LVI				
Latitude (Decimal Degrees)					
Longitude (Decimal Degrees)					

Relinquished By:

Curtis Musson

Date/Time
9/27/17 1430

Number of Coolers
2

Received By:

Date/Time
9-27-17 1430

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Central Lab Sample Submittal Form

Request Number: 2017-09-25-40
 Killiam Lakes Chain of Lakes
 Customer: WAS-SECT
 Project ID: SMP

Requester: Curtis Musson

Collected By: Curtis Musson, Blake Stenger

Page 2 of 3
 Field Report Prepared By: Curtis Musson
 Sampling Agency: FDEP

Lake: Tom
John Middle
 STORET ↓
 ST
 Lake Tom
 John Middle
 Sept. 27, 2017
 G1WA0043_09272017

☐ Comp ☒ Grab	Collection (comp begin or grab) Date 9/27/17 Time 1344	☒ Fasten ☐ Central	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	Sample Depts (m) 0.03		Sp. Conductance (umho/cm) 66	A, B
Salinity (ppt) 0.03	Comments				
Latitude (Decimal Degrees)		Longitude (Decimal Degrees)			

Lake: Monkey
Business
 STORET ↓
 ST
 Lake Monkey
 Business
 Middle
 Sept. 27, 2017
 G1WA0036_09272017

☐ Comp ☒ Grab	Collection (comp begin or grab) Date 9/27/17 Time 1230	☒ Fasten ☐ Central	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	Sample Depts (m) 0.3		Sp. Conductance (umho/cm) 79	A, B
Salinity (ppt) 0.04	Comments				
Latitude (Decimal Degrees)		Longitude (Decimal Degrees)			

Upper Dianne
Lake Middle
 STORET ↓
 ST
 Upper Dianne
 Lake Middle
 Sept. 27, 2017
 G1WA0041_09272017

☐ Comp ☒ Grab	Collection (comp begin or grab) Date 9/27/17 Time 1148	☒ Fasten ☐ Central	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	Sample Depts (m) 0.3		Sp. Conductance (umho/cm) 87	A, B
Salinity (ppt) 0.04	Comments Algal Mat Sampled				
Latitude (Decimal Degrees)		Longitude (Decimal Degrees)			

Relinquished By: Curtis Musson
 Date/Time 9/27/17 1430

Number of Coolers 2	Received By: <u>[Signature]</u>	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
	ALKALINITY					6 of 6
	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
	CHLSUITE-W					6 of 6
Group: A	Bottle Type:	P-500ML	# of Bottles: 6	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab
	W-NH3					6 of 6
	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
	W-PO4-F					6 of 6
Group: B	Bottle Type:	P-250ML-WO-THI	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab
	ECOLI-18QT					6 of 6

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 # 12045114

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 # 00068654

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.2

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 Sulfuric Acid
ID _____
ID _____
ID _____
ID _____

Exp 8/21/18
Exp _____
Exp _____
Exp _____
Exp _____

Lot # SA 7233030
Lot # _____
Lot # _____
Lot # _____
Lot # _____

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