



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

DO

WIN Station Name: Lake Tom John Middle

Date: 05/29/2019
(mm/dd/yyyy)

WIN/ Field ID: G1WA0043

WBID: 647A

Latitude: 30.54484

County: Leon

ORG ID: 21FLWQA

Longitude: -84.21478

Receiving Body of Water: Lake Killarney

RQ: 2019-03-04-69
(Decimal Degrees)

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Curtis Mussen									
Will Lester									

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☒ Syringe	
☐ Dipper	☐ Other	
Depth Measured with Sonar #1		
Equipment ID		

Collection Method		
☐ Wading	☒ Canoe/Kayak	
☐ From Shore	☐ Electric Motor	
☐ Other	☐ Gasoline Motor	

Water Level: Dry/ Pooled/ Low / Normal / High / Flooded
Photos: Yes / No
Flow: No Flow / Intestinal / Flowing / NA
Meter ID# Biologu #2
Matrix: Fresh / Marine / DI
Tide: Rising/ Falling/ Slack/ NA
Tide Times: High NA Low NA

Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPT)	Sp COND (µmhos/cm)	Temp. (C°)
EST	1131v	2.3v	0.3v	2.2v	7.99v	108.6v	7.2v	0.03v	75v	31.6v
CEN	1133		1.8v		0.45v	5.7v	5.7v	0.04v	88v	27.5v

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

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

Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☒ H2SO4	8344070	12/10/19	☒ <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-CHC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice			
Physical/Aggregate (Marine)	☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☐ MI-FW-QLDC	☐ Formalin			
Periphyton	☐ ALGAE-ID	☐ Ice			
Microbiology	☒ E Coli ☐ F Coli ☐ Enterococci	☒ Ice			
Molecular	☐ PCR-FILTER ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD	☐ Ice			
Tracers	☐ W-E8321-DI ☐ W-E8321-MS	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI ☐ W-PCL-SQ-R ☐ WE8321-MS ☐ W-CAR8-AA	☐ Ice			
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C	☐ Ice			

Notes: Choked with Aquatic Vegetation

WIN ID / FILED ID → G1WA0043

Location: Lake Tom John Middle

Signature: Curtis Mussen Date: 5-29-19

LIMS EVENT ID: WAS-SECT-2019-05-29-01 WIN Import ID: AWM 6/14/19

Enter Field Parameters, Verify Station ID In LIMS DMT: 888 6/10/19 QC Station ID, Field Parameters In LIMS DMT: AWM 6/14/19

Scan/Save Field Sheets (Initials/Date) Migrate Data to WIN: (Initials/Date) Verify Data In WIN: (Initials/Date)

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

Boldly "X" this log if there is qualified data on this page

Meter ID: B10 #

RQ- 2019-03-04-69

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	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Curtis Musson	5/29/19	7:48	22.44	8.677	8.67	100.0	66.5	—	⓪ / F	⓪ / F
ICV	Curtis Musson	5/29/19	7:49	22.44	8.677	8.67	100.0	67.6	—	⓪ / F	⓪ / F
CCV	Curtis Musson	5/29/19	12:53	21.28	8.863	8.89	95.7	69.6	—	P / ⓪	⓪ / 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	Lot #	Expir. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Curtis Musson	5/29/19	7:17	180927D	10/2019	500	500	⓪ / F	⓪ / F
ICV	Curtis Musson	5/29/19	7:19	180927D	10/2019	500	500	⓪ / F	⓪ / F
CCV	Curtis Musson	5/29/19	12:50	2808884	7/2020	100	103	⓪ / F	⓪ / F
CCV								P / F	L / F

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Curtis Musson	5/29/19	7:22	180621F	01/2020	7.0	7.00	-18.4	⓪ / F	⓪ / F
Calibr.	Curtis Musson	5/29/19	7:25	190405B	10/2020	4.0	4.01	157	⓪ / F	⓪ / F
Calibr.	Curtis Musson	5/29/19	7:29	180621F	01/2020	10.01	9.98	-186	⓪ / F	⓪ / F
ICV	Curtis Musson	5/29/19	7:30	180621F	01/2020	10.01	9.97	-186	⓪ / F	⓪ / F
CCV	Curtis Musson	5/29/19	12:47	180621F	01/2020	7.02	7.15	-23	⓪ / F	⓪ / 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 _____, 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	Calibrated Value (0.00 or Offset), meters	ICV Value meters	Pass / Fail	Lab / Field
Pressure mode in air	Curtis Musson	5/29/19	7:21	0.00	0.00	⓪ / F	⓪ / F

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

COMMENTS:

25.11°C

Curtis Musson/Will

LASTY

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Jeff H. MUSA	5/29/19 12:25	Drop off	2	[Signature]	5/31/19 12:20

Creed

Requester: Curtis Misson

Field Report Prepared By:

With Lasty

Collected By: W. H. Foster / Clark's Mustang

Sampling Agency:

FAED - 30AD

Location	WIN ID / FILED ID → 	WIN ID / FILED ID → G1W/A0043	Collection (comp begin or grab)		Eastern Central	Composite end Date	Time	Bottle Group(s)	
Field ID			☒ Comp	☒ Grab	Date	5/29/18	11:31		
WIN/STORET #	Location Lake Tom John Middle		Matrix (type, e.g., Salt, Fresh, etc)			Diss. Oxygen	108.6		
Latitude	☐ dd ☐ dms	Longitude	Temp (C)	31.6	pH	7.2	Sample Depth	0.3	
Location	☐ dd ☐ dms	Longitude	Salinity (ppt)	0.03	Comments				
Field ID			☐ Comp	☐ Grab	Collection (comp begin or grab)	Time	Eastern Central	Composite end Date	
WIN/STORET #			Matrix (type, e.g., Salt, Fresh, etc)			Diss. Oxygen	☐ mg/L Total Res. Chlorine ☐ % sat		
Latitude	☐ dd ☐ dms	Longitude	Temp (C)		pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)	
Location	☐ dd ☐ dms	Longitude	Salinity (ppt)		Comments				
Field ID			☐ Comp	☐ Grab	Collection (comp begin or grab)	Time	Eastern Central	Composite end Date	
WIN/STORET #			Matrix (type, e.g., Salt, Fresh, etc)			Diss. Oxygen	☐ mg/L Total Res. Chlorine ☐ % sat		
Latitude	☐ dd ☐ dms	Longitude	Temp (C)		pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)	
Location	☐ dd ☐ dms	Longitude	Salinity (ppt)		Comments				
Field ID			☐ Comp	☐ Grab	Collection (comp begin or grab)	Time	Eastern Central	Composite end Date	
WIN/STORET #			Matrix (type, e.g., Salt, Fresh, etc)			Diss. Oxygen	☐ mg/L Total Res. Chlorine ☐ % sat		
Latitude	☐ dd ☐ dms	Longitude	Temp (C)		pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)	
Location	☐ dd ☐ dms	Longitude	Salinity (ppt)		Comments				
Field ID			☐ Comp	☐ Grab	Collection (comp begin or grab)	Time	Eastern Central	Composite end Date	
WIN/STORET #			Matrix (type, e.g., Salt, Fresh, etc)			Diss. Oxygen	☐ mg/L Total Res. Chlorine ☐ % sat		
Latitude	☐ dd ☐ dms	Longitude	Temp (C)		pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)	
Location	☐ dd ☐ dms	Longitude	Salinity (ppt)		Comments				
Field ID			☐ Comp	☐ Grab	Collection (comp begin or grab)	Time	Eastern Central	Composite end Date	
WIN/STORET #			Matrix (type, e.g., Salt, Fresh, etc)			Diss. Oxygen	☐ mg/L Total Res. Chlorine ☐ % sat		
Latitude	☐ dd ☐ dms	Longitude	Temp (C)		pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)	
Location	☐ dd ☐ dms	Longitude	Salinity (ppt)		Comments				
Field ID			☐ Comp	☐ Grab	Collection (comp begin or grab)	Time	Eastern Central	Composite end Date	
WIN/STORET #			Matrix (type, e.g., Salt, Fresh, etc)			Diss. Oxygen	☐ mg/L Total Res. Chlorine ☐ % sat		
Latitude	☐ dd ☐ dms	Longitude	Temp (C)		pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)	
Location	☐ dd ☐ dms	Longitude	Salinity (ppt)		Comments				
Field ID			☐ Comp	☐ Grab	Collection (comp begin or grab)	Time	Eastern Central	Composite end Date	
WIN/STORET #			Matrix (type, e.g., Salt, Fresh, etc)			Diss. Oxygen	☐ mg/L Total Res. Chlorine ☐ % sat		
Latitude	☐ dd ☐ dms	Longitude	Temp (C)		pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)	
Location	☐ dd ☐ dms	Longitude	Salinity (ppt)		Comments				
Field ID			☐ Comp	☐ Grab	Collection (comp begin or grab)	Time	Eastern Central	Composite end Date	
WIN/STORET #			Matrix (type, e.g., Salt, Fresh, etc)			Diss. Oxygen	☐ mg/L Total Res. Chlorine ☐ % sat		
Latitude	☐ dd ☐ dms	Longitude	Temp (C)		pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)	
Location	☐ dd ☐ dms	Longitude	Salinity (ppt)		Comments				
Field ID			☐ Comp	☐ Grab	Collection (comp begin or grab)	Time	Eastern Central	Composite end Date	
WIN/STORET #			Matrix (type, e.g., Salt, Fresh, etc)			Diss. Oxygen	☐ mg/L Total Res. Chlorine ☐ % sat		
Latitude	☐ dd ☐ dms	Longitude	Temp (C)		pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)	
Location	☐ dd ☐ dms	Longitude	Salinity (ppt)		Comments				
Field ID			☐ Comp	☐ Grab	Collection (comp begin or grab)	Time	Eastern Central	Composite end Date	
WIN/STORET #			Matrix (type, e.g., Salt, Fresh, etc)			Diss. Oxygen	☐ mg/L Total Res. Chlorine ☐ % sat		
Latitude	☐ dd ☐ dms	Longitude	Temp (C)		pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)	
Location	☐ dd ☐ dms	Longitude	Salinity (ppt)		Comments				
Field ID			☐ Comp	☐ Grab	Collection (comp begin or grab)	Time	Eastern Central	Composite end Date	
WIN/STORET #			Matrix (type, e.g., Salt, Fresh, etc)			Diss. Oxygen	☐ mg/L Total Res. Chlorine ☐ % sat		
Latitude	☐ dd ☐ dms	Longitude	Temp (C)		pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)	
Location	☐ dd ☐ dms	Longitude	Salinity (ppt)		Comments				
Field ID			☐ Comp	☐ Grab	Collection (comp begin or grab)	Time	Eastern Central	Composite end Date	
WIN/STORET #</									

Number of Coolers Shipped:

Date/Time

HO 6

10

Received By: 

Date/Time 5/19/

Group: A	Bottle Type:	P-1L	# of Bottles: 5	Preservative:	ICE	Enter Number of Bottles Sent to Lab	0
	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	0
	CHLSUITE-W						
Group: A	Bottle Type:	P-500ML	# of Bottles: 5	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	0
	W-NH3						
	W-NO2NO3						
	W-S-A-TP						
	W-TKN						
	W-TOC						
Group: A	Bottle Type:	P-125ML	# of Bottles: 5	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	0
	W-PO4-F						
Group: B	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: B	Bottle Type:	BP-1L	# of Bottles: 5	Preservative:	ICE	Enter Number of Bottles Sent to Lab	5
	CHLSUITE-W						
Group: B	Bottle Type:	P-250ML-WO-THI	# of Bottles: 5	Preservative:	ICE	Enter Number of Bottles Sent to Lab	5
	ECOLL-18QT						
Group: B	Bottle Type:	P-500ML	# of Bottles: 5	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	5

Group: B	Bottle Type:	P-500ML	# of Bottles: 5	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab
	W-NH3				5
	W-NO2NO3				
	W-S-A-TP				
	W-TKN				
	W-TOC				
		Lot # 548344070			
		Exp. 12/16/2019			

Group: B	Bottle Type:	P-125ML	# of Bottles: 5	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab
	W-PO4F				5

Cooler Packing Worksheet for Request: RQ-2019-03-04-69

Tallahassee Lakes

Ship Cooler On: 3/1/2019

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:

Group A: Nutrients x5

WBIDs: 546A, 546B, 564A, 564B, 647A
Lakes

Completed 4/10/2019

Group B: Killarney Chain of Lakes Outlet, 647L
Nutrients, E. coli

5-29-2019

Packing Notes:

No FedEx Labels

No Trash Bags

1 - case of sulfuric acid

2 - sets of sulfuric acid labels

Requested Analyses:

Bottle Group: A

of Sites: 5

Container ID: P-1L

Qty: 5

Preservation: ICE

Lot #

00071991

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 using a maximum of 250 mL of sample

Container ID: BP-1L

Qty: 5

Preservation: ICE

Lot #

1246281

Description: Brown Plastic Bottle 1L

Analysis

Description

Container ID: P-500ML

Qty: 5 Preservation: ICE And H2SO4

Lot # 00073297

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: FILTER-ICE

Lot # 00072954

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: 5

Container ID: P-1L

Qty: 5 Preservation: ICE

Lot # 00071991

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 using a maximum of 250 mL of sample

Container ID: BP-1L

Qty: 5 Preservation: ICE

Lot # 1246281

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

120-SR
Container ID: P-250ML-WO-THI

10-SR
Qty: 5 Preservation: ICE

Lot #

6A20-TW

Description: 250 ml Sterilized no tablet

120-SR

Replacement Containers

Analysis

ECOLI-18QT

Description

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

Container ID: P-500ML

Qty: 5 Preservation: ICE And H2SO4

Lot #

00073297

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: FILTER-ICE

Lot #

00072954

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: 3

Date: 2-25-19

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle
- ☐ FedEx Bills, if applicable
- ☐ Plastic Bags/Zip Ties
- ☒ Acid Labels (sets of 24)

If Preservation Included:

ID Sulfuric Acid
ID _____
ID _____
ID _____
ID _____

Exp 12-10-19
Exp _____
Exp _____
Exp _____
Exp _____

Lot # SA 8344070
Lot # _____
Lot # _____
Lot # _____
Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2019-03-04-69