

Killearn Lakes Chain of Lakes

Central Laboratory Submittal Form

last revised Apr 7, 2016

Customer: WQAP

Requester: Benjamin Ralys

Field Report Prepared By:

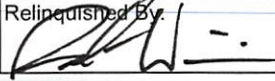
Robert Wini

Project ID: SMP

Collected By: Robert Wini, Colby Marshall

Sampling Agency: FDEP

Location Lower Dianne Lake Middle		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 10/10/16 Time 1120		☒ Eastern ☐ Central	Composite end Date Time		Bottle Group(s) (See pg 2) A	
Field ID G1WA0040_10102016		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 8.2	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)			
STORET # G1WA0040		Temp (C) 25.9	pH 7.7	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 73			
Latitude 30.59355	☒ dd ☐ dms	Longitude -84.23534	☒ dd ☐ dms	Salinity (ppt) 0.03	Comments				
Location Petty Gulf Lake Middle		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 10/10/16 Time 1205		☒ Eastern ☐ Central	Composite end Date Time		Bottle Group(s) A	
Field ID G1WA0022_10102016		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 8.4	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)			
STORET # G1WA0022		Temp (C) 25.7	pH 7.7	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 57			
Latitude 30.58915	☒ dd ☐ dms	Longitude -84.22637	☒ dd ☐ dms	Salinity (ppt) 0.03	Comments				
Location Pine Hill Lake Middle		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 10/10/16 Time 1225		☒ Eastern ☐ Central	Composite end Date Time		Bottle Group(s) A	
Field ID G1WA0054_10102016		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 8.4	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)			
STORET # G1WA0054		Temp (C) 25.5	pH 7.6	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 46			
Latitude 30.58492	☒ dd ☐ dms	Longitude -84.2195	☒ dd ☐ dms	Salinity (ppt) 0.02	Comments				
Location Lake Tom John Middle		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 10/10/16 Time 1315		☒ Eastern ☐ Central	Composite end Date Time		Bottle Group(s) A	
Field ID G1WA0043_10102016		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 8.3	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)			
STORET # G1WA0043		Temp (C) 25.8	pH 7.3	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 65			
Latitude 30.54484	☒ dd ☐ dms	Longitude -84.21478	☒ dd ☐ dms	Salinity (ppt) 0.03	Comments				

Relinquished By: 	Date/Time 10/10/16	Shipping Method	Number of Coolers Shipped:	Received By: MB	Date/Time 10/10/16/2:58pm
--	-----------------------	-----------------	----------------------------	--------------------	------------------------------

Group: A	Bottle Type:	P-1L	# of Bottles: 9	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>6</u>
	ALKALINITY						
	TURBIDITY						
	W-CL-IC						
	W-COLOR						
	W-F						
	W-TDS						
	W-TSS						
Group: A	Bottle Type:	BP-1L	# of Bottles: 9	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>6</u>
	CHLSUITE-W						
Group: A	Bottle Type:	P-500ML	# of Bottles: 9	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	<u>6</u>
	W-NH3						
	W-NO2NO3						
	W-S-A-TP						
	W-TKN						
	W-TOC						
Group: A	Bottle Type:	P-125ML	# of Bottles: 9	Preservative:	ICE-FLTR	Enter Number of Bottles Sent to Lab	<u>6</u>
	W-PO4-F						
Group: B	Bottle Type:	P-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>1</u>
	ALKALINITY						
	TURBIDITY						
	W-CL-IC						
	W-COLOR						
	W-F						
	W-TDS						
	W-TSS						
Group: B	Bottle Type:	BP-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>1</u>
	CHLSUITE-W						
Group: B	Bottle Type:	P-500ML	# of Bottles: 1	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	<u>1</u>
	W-NH3						
	W-NO2NO3						
	W-S-A-TP						
	W-TKN						
	W-TOC						

Group: B	Bottle Type:	P-125ML	# of Bottles: 1	Preservative:	ICE-FLTR	Enter Number of Bottles Sent to Lab	1
W-PO4-F							
Group: C	Bottle Type:	P-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
ALKALINITY							
TURBIDITY							
W-CL-IC							
W-COLOR							
W-F							
W-TDS							
W-TSS							
Group: C	Bottle Type:	BP-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
CHLSUITE-W							
Group: C	Bottle Type:	P-500ML	# of Bottles: 1	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	1
W-NH3							
W-NO2NO3							
W-S-A-TP							
W-TKN							
W-TOC							
Group: C	Bottle Type:	P-125ML	# of Bottles: 1	Preservative:	ICE-FLTR	Enter Number of Bottles Sent to Lab	1
W-PO4-F							

Killearn Lakes Chain of Lakes

Central Laboratory Submittal Form

last revised Apr 7, 2016

Customer: WQAP

Requester: Benjamin Ralys

Field Report Prepared By:

Robert Wiini

Project ID: SMP

Collected By: Robert Wiini, Colby Marshall

Sampling Agency:

FDEP

Location Lake Monkey Business Middle		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 10/10/16 Time 0930		☒ Eastern ☐ Central	Composite end Date Time		Bottle Group(s) (See pg 2) A	
Field ID G1WA0036_10102016		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 8.0	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)			
STORET # G1WA0036		Temp (C) 25.5	pH 7.1	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 56			
Latitude 30.60779	☒ dd ☐ dms	Longitude -84.23076	☒ dd ☐ dms	Salinity (ppt) 0.02	Comments				
Location Lake Monkey Business Middle DUP		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 10/10/16 Time 0930		☒ Eastern ☐ Central	Composite end Date Time		Bottle Group(s) C	
Field ID G1WA0036D-10102016		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 8.0	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)			
STORET # G1WA0036		Temp (C) 25.5	pH 7.1	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 56			
Latitude 30.60779	☒ dd ☐ dms	Longitude -84.23076	☒ dd ☐ dms	Salinity (ppt) 0.02	Comments DUPLICATE				
Location Lake Monkey Business		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 10/10/16 Time 0910		☒ Eastern ☐ Central	Composite end Date Time		Bottle Group(s) B	
Field ID G1WA0036B-10102016		Matrix (type, e.g., Salt, Fresh, etc) D.I. Water		Diss. Oxygen —	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L) —			
STORET # —		Temp (C) —	pH —	Sample Depth —	☐ ft ☐ m	Sp. Conductance (umho/cm) —			
Latitude —	☐ dd ☐ dms	Longitude —	☐ dd ☐ dms	Salinity (ppt) —	Comments FIELD BLANK				
Location Upper Dianne Lake Middle		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 10/10/16 Time 1015		☒ Eastern ☐ Central	Composite end Date Time		Bottle Group(s) A	
Field ID G1WA0041_10102016		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 7.9	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)			
STORET # G1WA0041		Temp (C) 25.1	pH 7.2	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 44			
Latitude 30.59986	☒ dd ☐ dms	Longitude -84.23778	☒ dd ☐ dms	Salinity (ppt) 0.02	Comments				

Relinquished By: [Signature]	Date/Time 10/10/16	Shipping Method	Number of Coolers Shipped:	Received By: MB	Date/Time 10/10/16/2:58pm
---------------------------------	-----------------------	-----------------	----------------------------	--------------------	------------------------------

Group: A	Bottle Type: P-1L	# of Bottles: 9	Preservative: ICE	Enter Number of Bottles Sent to Lab <u>6</u>
ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-TDS W-TSS				
Group: A	Bottle Type: BP-1L	# of Bottles: 9	Preservative: ICE	Enter Number of Bottles Sent to Lab <u>6</u>
CHLSUITE-W				
Group: A	Bottle Type: P-500ML	# of Bottles: 9	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab <u>6</u>
W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC				
Group: A	Bottle Type: P-125ML	# of Bottles: 9	Preservative: ICE-FLTR	Enter Number of Bottles Sent to Lab <u>6</u>
W-PO4-F				
Group: B	Bottle Type: P-1L	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab <u>1</u>
ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-TDS W-TSS				
Group: B	Bottle Type: BP-1L	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab <u>1</u>
CHLSUITE-W				
Group: B	Bottle Type: P-500ML	# of Bottles: 1	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab <u>1</u>
W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC				

Group: B	Bottle Type:	P-125ML	# of Bottles: 1	Preservative:	ICE-FLTR	Enter Number of Bottles Sent to Lab	1
W-PO4-F							
Group: C	Bottle Type:	P-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
ALKALINITY							
TURBIDITY							
W-CL-IC							
W-COLOR							
W-F							
W-TDS							
W-TSS							
Group: C	Bottle Type:	BP-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
CHLSUITE-W							
Group: C	Bottle Type:	P-500ML	# of Bottles: 1	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	1
W-NH3							
W-NO2NO3							
W-S-A-TP							
W-TKN							
W-TOC							
Group: C	Bottle Type:	P-125ML	# of Bottles: 1	Preservative:	ICE-FLTR	Enter Number of Bottles Sent to Lab	1
W-PO4-F							

Date of Request: 19-SEP-2016
 Created By: RALYS_B On: 19-SEP-2016
 Modified By: MATTHEWS_D On: 21-SEP-2016
 Customer: WQAP
 Project: SMP
 Division:
 District:
 Sampling Event: Killearn Lakes Chain of Lakes

Send Coolers To:

Phone: 850-245-8443
 2600 Blair Stone Rd
 MS #3560
 Tallahassee, FL 32399-2400
 Attn: Benjamin Ralys

Send Final Report To:

2600 Blair Stone Rd
 MS #3560
 Tallahassee, FL 32399-2400
 Attn: Benjamin Ralys

Program Module Number:
 Priority: 3
 Event Status: S
 Criminal Investigation: NO
 Chemistry Request Reviewed By: WATTS_J On: 20-SEP-2016
 Biology Request Reviewed By: MATTHEWS_D On: 21-SEP-2016
 Sampling Kit Required: YES Ship on: 05-OCT-2016
 Sampling Kit Shipped: YES On: 05-OCT-2016
 Sampling Kit Packed By: SHAIK_A
 Preservatives Needed: YES
 Date to Receive Samples: 12-OCT-2016
 Received By:

Report Type: Final Only
 FTP Data: NO
 QC Report: YES
 Date Log: NO
 Authorization Log: NO

Comments: Bottle Group A: freshwater kit no metals
 Bottle Group B: Field Blank
 Bottle Group C: Duplicate

3 - liters of DI water

1 - case of Sulfuric Acid

Bottle Group A (Water) With 9 Samples:

Bottle Type: P-1L	Number of Bottles: 9	Preserved With: ICE
ALKALINITY	Template: DEFAULT	(SM 2320 B-97) Alkalinity in aqueous matrices as mg CaCO3/L
TURBIDITY	Template: DEFAULT	(EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices
W-CL-IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Chloride in aqueous matrices
W-COLOR	Template: DEFAULT	(SM 2120 B) True Color measured at 450 nm
Color (true)		
W-F	Template: DEFAULT	(SM 4500 F-C-97) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
W-TDS	Template: DEFAULT	(SM 2540 C-97) Total Dissolved Solids in aqueous matrices
W-TSS	Template: DEFAULT	(SM 2540 D-97) Total Suspended Solids in aqueous matrices
Bottle Type: BP-1L	Number of Bottles: 9	Preserved With: ICE
CHLSUITE-W	Template: DEFAULT	(SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry
Bottle Type: P-500ML	Number of Bottles: 9	Preserved With: ICE And H2SO4
W-NH3	Template: DEFAULT	(EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L
W-NO2NO3	Template: DEFAULT	(EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L
W-S-A-TP	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L
W-TKN	Template: DEFAULT	(EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices
W-TOC	Template: DEFAULT	(SM 5310 B-00) Nonpurgeable Organic Carbon in aqueous matrices
Bottle Type: P-125ML	Number of Bottles: 9	Preserved With: ICE-FLTR
W-PO4-F	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group B (Water) With 1 Samples:

Bottle Type: P-1L	Number of Bottles: 1	Preserved With: ICE
ALKALINITY	Template: DEFAULT	(SM 2320 B-97) Alkalinity in aqueous matrices as mg CaCO3/L

Bottle Group B (Water) With 1 Samples:

Bottle Type: P-1L	Number of Bottles: 1	Preserved With: ICE
TURBIDITY	Template: DEFAULT	(EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices
W-CL-IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Chloride in aqueous matrices
W-COLOR	Template: DEFAULT	(SM 2120 B) True Color measured at 450 nm
Color (true)		
W-F	Template: DEFAULT	(SM 4500 F-C-97) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
W-TDS	Template: DEFAULT	(SM 2540 C-97) Total Dissolved Solids in aqueous matrices
W-TSS	Template: DEFAULT	(SM 2540 D-97) Total Suspended Solids in aqueous matrices
Bottle Type: BP-1L	Number of Bottles: 1	Preserved With: ICE
CHLSUITE-W	Template: DEFAULT	(SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry
Bottle Type: P-500ML	Number of Bottles: 1	Preserved With: ICE And H2SO4
W-NH3	Template: DEFAULT	(EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L
W-NO2NO3	Template: DEFAULT	(EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L
W-S-A-TP	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L
W-TKN	Template: DEFAULT	(EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices
W-TOC	Template: DEFAULT	(SM 5310 B-00) Nonpurgeable Organic Carbon in aqueous matrices
Bottle Type: P-125ML	Number of Bottles: 1	Preserved With: ICE-FLTR
W-PO4-F	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group C (Water) With 1 Samples:

Bottle Type: BP-1L	Number of Bottles: 1	Preserved With: ICE
CHLSUITE-W	Template: DEFAULT	(SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry
Bottle Type: P-500ML	Number of Bottles: 1	Preserved With: ICE And H2SO4
W-NH3	Template: DEFAULT	(EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L
W-NO2NO3	Template: DEFAULT	(EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L
W-S-A-TP	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L
W-TKN	Template: DEFAULT	(EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices
W-TOC	Template: DEFAULT	(SM 5310 B-00) Nonpurgeable Organic Carbon in aqueous matrices
Bottle Type: P-125ML	Number of Bottles: 1	Preserved With: ICE-FLTR
W-PO4-F	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L
Bottle Type: P-1L	Number of Bottles: 1	Preserved With: ICE
ALKALINITY	Template: DEFAULT	(SM 2320 B-97) Alkalinity in aqueous matrices as mg CaCO3/L
TURBIDITY	Template: DEFAULT	(EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices
W-CL-IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Chloride in aqueous matrices
W-COLOR	Template: DEFAULT	(SM 2120 B) True Color measured at 450 nm
Color (true)		
W-F	Template: DEFAULT	(SM 4500 F-C-97) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
W-TDS	Template: DEFAULT	(SM 2540 C-97) Total Dissolved Solids in aqueous matrices
W-TSS	Template: DEFAULT	(SM 2540 D-97) Total Suspended Solids in aqueous matrices

Log-in Checklist

RQ- 2016-10-10-34

Shipping Method: H.D.

Date/Time of Receipt: 10/10/16/2:58pm

Cooler ID	Cooler Temperature*	No. Sample Containers in Cooler	Evidence Tape				Tracking # (fill out only if waybill copy is damaged)
			Present?		*Intact?		
			Yes	No	Yes	No	
Red	-1.0	10		✓			
Red	-0.4	20		✓			

*If the temperature of a cooler is above 6.0 °C (or above 10.0 °C for W-1-4-DIOX), or if Evidence Seal is damaged, identify the containers in the affected cooler(s) on back of this form.

****Note:** If "No" is checked in any of the fields below, fill out the back of this form with additional details (Field ID, Test IDs, etc.) and generate an NCR.

**Chain of Custody/ Field Sheet(s) Included? Yes ☒ No ☐

CONTAINER CHECK

**Evidence Tape on Bottles? Yes ☐ No ☒ If yes, is it intact? Yes ☒ No ☐

**Caps on tight? Yes ☒ No ☐ **Containers intact? Yes ☒ No ☐

**Sufficient Sample Volume: Yes ☒ No ☐

CHLORINE CHECK (Blue dot on container)

Check the Box marked "Yes" or "No" for the Presence of Chlorine. If Cl detected, an NCR is required.					
Analysis	Yes	No	Analysis	Yes	No
W-1,4 DIOX			W-PC-AA-SF		
W-AHERB-AA (-AHB-AA-R)			W-PCL-SQ (-R)		
W-BNA (-625, -R)			W-PDQUAT		
W-CARB-AA (-CAB-AA-R)			W-PESTNP-R		
W-ENDO-AA			W-PSCL-TQ		
W-GLYPH			W-PSNP-TQ		
W-NP-AA-SF			W-PST-CL-R		
W-PAH (-R)			W-TR-TQ		
W-PCB-R					

PRESERVATION CHECK (EXCLUDING SAMPLES SENT TO OVERFLOW LABS, "OV-")

**Acid Preserved Samples: pH ≤ 2.0? Yes ☒ No ☐ NA ☐ Init: MB

**W-1-4-DIOX (Green dot on container) preserved to pH < 4.0? Yes ☐ No ☐ NA ☒ Init: MB

Coolers Unpacked/Checked by: MB Date: 10/10/16 NCRs (Y/N)? N

Event ID: WQAP-2016-10-10-01 NCR #

Log-in Checklist

Samples with Incorrect pH Preservation or presence of Chlorine

Field ID	Bottle Test ID(s)	pH / Cl	Action Taken

Samples in Coolers with Incorrect Preservation or Damaged Evidence Tape

Cooler ID	Field ID	Bottle Test ID(s)

Bottles Not Intact

Field ID	Bottle Test ID(s)	Loose Cap	Damaged Cap		Damaged Container		Evidence Tape Not Intact
			CK	BR	CK	BR	

Samples with Insufficient Volume for Analyses

Field ID	Bottle Test ID(s)	Action Taken

ENCORE SAMPLES

S-VOC-MS samples in Encores must be frozen within 48 hours of collection.

Were Encore samples received? Yes _____ No ✓

Date and time placed in freezer _____

Were all samples placed in freezer within 48 hours of collection? Yes _____ No _____

If no, were samples shipped on dry ice? Yes _____ No _____

FOR CLEAN LAB USE ONLY – Total Mercury Preservation Check (W-HG-AF; W-HG-AF-F):

Samples preserved within 48 hours? Yes _____ No _____

Date and time samples preserved: _____

Additional Comments: