

Lake Istokpoga

Central Laboratory Submittal Form

last revised Apr 7, 2016

Customer: WQAP

Requester: Kirby Wolfe

Field Report Prepared By:

Project ID: SPPROJECTS

Collected By:

Sampling Agency:

RQ-2016-09-05-16				☐ Comp ☒ Grab		Collection (comp begin or grab) Date 9/27/16 Time 10:02		☒ Eastern ☐ Central		Composite end Date Time		Bottle Group(s) (See pg 2)	
Print Date & Time on Bottle		G4SD0153 Field ID		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 74.8		☐ mg/L ☒ % sat		Total Res. Chlorine (mg/L) N/A		AB	
Lake Istokpoga Algae S		STORET G4SD0153		Temp (C) 29.97		pH 7.65		Sample Depth 0.5		☐ ft ☐ m		Sp. Conductance (umho/cm) not cal	
Latitude ☐ dd ☐ dms		Longitude ☐ dd ☐ dms		Salinity (ppt) N/A		Comments Secchi depth = 2.5' High [suspended particles] present							
RQ-2016-09-05-16				☐ Comp ☒ Grab		Collection (comp begin or grab) Date 9/27/16 Time 10:20		☒ Eastern ☐ Central		Composite end Date Time		Bottle Group(s)	
Print Date & Time on Bottle		G4SD0154 Field ID		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 77.6		☐ mg/L ☒ % sat		Total Res. Chlorine (mg/L) N/A		AB	
Lake Istokpoga Algae SE		STORET G4SD0154		Temp (C) 29.24		pH 6.86		Sample Depth 0.5		☐ ft ☐ m		Sp. Conductance (umho/cm) not cal	
Latitude ☐ dd ☐ dms		Longitude ☐ dd ☐ dms		Salinity (ppt) N/A		Comments Secchi depth = 2.5' High [suspended solids] present							
Location		☐ Comp ☐ Grab		Collection (comp begin or grab) Date Time		☐ Eastern ☐ Central		Composite end Date Time		Bottle Group(s)			
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		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							
Location		☒ Comp ☐ Grab		Collection (comp begin or grab) Date Time		☐ Eastern ☐ Central		Composite end Date Time		Bottle Group(s)			
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		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							

Relinquished By: 	Date/Time 9/27/16/14:30	Shipping Method FedEx	Number of Coolers Shipped:	Received By: MB	Date/Time 9/28/16/10:21
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Group: A	Bottle Type: PT-50ML	# of Bottles: 6	Preservative: ICE	Enter Number of Bottles Sent to Lab _____
BLOOM-ID				
Group: B	Bottle Type: BG-WD250	# of Bottles: 6	Preservative: ICE	Enter Number of Bottles Sent to Lab _____
W-MCYST-AA				
Group: C	Bottle Type: BP-1L	# of Bottles: 6	Preservative: ICE	Enter Number of Bottles Sent to Lab _____
CHLSUITE-W				
Group: C	Bottle Type: P-1L	# of Bottles: 6	Preservative: ICE	Enter Number of Bottles Sent to Lab _____
TURBIDITY				
W-COLOR				
W-TSS				
Group: C	Bottle Type: P-500ML	# of Bottles: 6	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab _____
W-NH3				
W-NO2NO3				
W-S-A-TP				
W-TKN				
W-JOC				
Group: C	Bottle Type: P-125ML	# of Bottles: 6	Preservative: ICE-FLTR	Enter Number of Bottles Sent to Lab _____
W-PO4-F				
Group: D	Bottle Type: BP-1L	# of Bottles: 6	Preservative: Lugols	Enter Number of Bottles Sent to Lab _____
DTY-QN-C				
PKD-QN-C				

Lake Istokpoga

Central Laboratory Submittal Form

last revised Apr 7, 2016

Customer: WQAP

Requester: Kirby Wolfe

Field Report Prepared By:

Project ID: SPPROJECTS

Collected By:

Sampling Agency:

RQ-2016-09-05-16				☐ Comp ☒ Grab		Collection (comp begin or grab) Date 9/27/16 Time 11:00		Eastern Central		Composite end Date Time		Bottle Group(s) (See pg 2)	
Print Date & Time on Bottle		G4SD0151 Field ID		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 74.2		☐ mg/L ☒ % sat		Total Res. Chlorine (mg/L) N/A		AB	
Lake Istokpoga Algae NE		STORET G4SD0151		Temp (C) 29.38		pH 6.59		Sample Depth 0.5		☒ ft ☐ m		Sp. Conductance (umho/cm) not cal	
Latitude ☐ dd ☐ dms		Longitude ☐ dd ☐ dms		Salinity (ppt) N/A		Comments Secchi depth = 3.0' Lower [suspended solids] here							
RQ-2016-09-05-16				☐ Comp ☒ Grab		Collection (comp begin or grab) Date 9/27/16 Time 9:20		Eastern Central		Composite end Date Time		Bottle Group(s)	
Print Date & Time on Bottle		G4SD0152 Field ID		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 87.4		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L) N/A		AB	
Lake Istokpoga Algae NW		STORET G4SD0152		Temp (C) 29.11		pH 7.33		Sample Depth 0.5		☒ ft ☐ m		Sp. Conductance (umho/cm) not cal	
Latitude ☐ dd ☐ dms		Longitude ☐ dd ☐ dms		Salinity (ppt) N/A		Comments Secchi depth = 2.5' Moderate [suspended solids]							
Location		☐ Comp ☒ Grab		Collection (comp begin or grab) Date Time		Eastern Central		Composite end Date Time		Bottle Group(s)			
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		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							
Location		☐ Comp ☒ Grab		Collection (comp begin or grab) Date Time		Eastern Central		Composite end Date Time		Bottle Group(s)			
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		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							

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
	9/27/16/14:30 9/27/16	Fed Ex		MB	9/28/16/10:21

Group: A Bottle Type: PT-50ML # of Bottles: 6 Preservative: ICE Enter Number of Bottles Sent to Lab _____

BLOOM-ID

Group: B Bottle Type: BG-WD250 # of Bottles: 6 Preservative: ICE Enter Number of Bottles Sent to Lab _____

W-MCYST-AA

Group: C Bottle Type: BP-1L # of Bottles: 6 Preservative: ICE Enter Number of Bottles Sent to Lab _____

CHLSUITE-W

Group: C Bottle Type: P-1L # of Bottles: 6 Preservative: ICE Enter Number of Bottles Sent to Lab _____

TURBIDITY

W-COLOR

W-TSS

Group: C Bottle Type: P-500ML # of Bottles: 6 Preservative: ICE And H2SO4 Enter Number of Bottles Sent to Lab _____

W-NH3

W-NO2NO3

W-S-A-TP

W-TKN

W-TOC

Group: C Bottle Type: P-125ML # of Bottles: 6 Preservative: ICE-FLTR Enter Number of Bottles Sent to Lab _____

W-PO4-F

Group: D Bottle Type: BP-1L # of Bottles: 6 Preservative: Lugols Enter Number of Bottles Sent to Lab _____

DTY-QN-C

PKD-QN-C

Lake Istokpoga

Central Laboratory Submittal Form

last revised Apr 7, 2016

Customer: WQAP

Requester: Kirby Wolfe

Field Report Prepared By: Clell Fard

Project ID: SPPROJECTS

Collected By: Clell FardSampling Agency: Highlands County

RQ-2016-09-05-16				☐ Comp	Collection (comp begin or grab)		☒ Eastern	Composite end		Bottle Group(s)	
Print Date & Time on Bottle		G4SD0155		☒ Grab	Date	Time	Central	Date	Time	(See pg 2)	
Lake Istokpoga		STORET		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L	Total Res. Chlorine		A3 CD
Algae W		G4SD0155		fresh		96.7		☒ % sat	N/A		
Latitude		☐ dd	Longitude	☐ dd	Temp (C)	pH	Sample Depth	☒ ft	Sp. Conductance		
		☐ dms		☐ dms	28.68	7.36	0.5	☐ m	(umho/cm)		not cal
				Salinity (ppt)	Comments						
				N/A	Secchi: depth = 2.5' High [suspended particles] present						

RQ-2016-09-05-16				☐ Comp	Collection (comp begin or grab)		☒ Eastern	Composite end		Bottle Group(s)	
Print Date & Time on Bottle		G4SD0156		☒ Grab	Date	Time	Central	Date	Time	(See pg 2)	
Lake Istokpoga		STORET		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L	Total Res. Chlorine		A3 CD
Algae CEN		G4SD0156		Fresh		101.8		☒ % sat	N/A		
Latitude		☐ dd	Longitude	☐ dd	Temp (C)	pH	Sample Depth	☒ ft	Sp. Conductance		
		☐ dms		☐ dms	28.76	7.12	0.5	☐ m	(umho/cm)		not cal
				Salinity (ppt)	Comments						
				N/A	Secchi: depth = 2.25' High [suspended particles] present						

Location		☐ Comp	Collection (comp begin or grab)		Eastern	Composite end		Bottle Group(s)	
		☐ Grab	Date	Time	Central	Date	Time		
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L	Total Res. Chlorine		
STORET #						☐ % sat	(mg/L)		
Latitude		☐ dd	Longitude	☐ dd	Temp (C)	pH	Sample Depth	☐ ft	Sp. Conductance
		☐ dms		☐ dms				☐ m	(umho/cm)
				Salinity (ppt)	Comments				

Location		☐ Comp	Collection (comp begin or grab)		Eastern	Composite end		Bottle Group(s)	
		☐ Grab	Date	Time	Central	Date	Time		
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L	Total Res. Chlorine		
STORET #						☐ % sat	(mg/L)		
Latitude		☐ dd	Longitude	☐ dd	Temp (C)	pH	Sample Depth	☐ ft	Sp. Conductance
		☐ dms		☐ dms				☐ m	(umho/cm)
				Salinity (ppt)	Comments				

Relinquished By: <u>[Signature]</u>	Date/Time: <u>9/27/16/14:30</u>	Shipping Method: <u>Fed Ex</u>	Number of Coolers Shipped: <u></u>	Received By: <u>MB</u>	Date/Time: <u>9/28/16/10:21</u>
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Group: A	Bottle Type: PT-50ML	# of Bottles: 6	Preservative: ICE	Enter Number of Bottles Sent to Lab _____
BLOOM-ID				
Group: B	Bottle Type: BG-WD250	# of Bottles: 6	Preservative: ICE	Enter Number of Bottles Sent to Lab _____
W-MCYST-AA				
Group: C	Bottle Type: BP-1L	# of Bottles: 6	Preservative: ICE	Enter Number of Bottles Sent to Lab _____
CHLSUITE-W				
Group: C	Bottle Type: P-1L	# of Bottles: 6	Preservative: ICE	Enter Number of Bottles Sent to Lab _____
TURBIDITY				
W-COLOR				
W-TSS				
Group: C	Bottle Type: P-500ML	# of Bottles: 6	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab _____
W-NH3				
W-NO2NO3				
W-S-A-TP				
W-TKN				
W-TOC				
Group: C	Bottle Type: P-125ML	# of Bottles: 6	Preservative: ICE-FLTR	Enter Number of Bottles Sent to Lab _____
W-PO4-F				
Group: D	Bottle Type: BP-1L	# of Bottles: 6	Preservative: Lugols	Enter Number of Bottles Sent to Lab _____
DTY-QN-C				
PKD-QN-C				

Date of Request: 25-JUL-2016
 Created By: WOLFE_K On: 25-JUL-2016
 Modified By: MATTHEWS_D On: 12-AUG-2016
 Customer: WQAP
 Project: SPPROJECTS
 Division: Division of Environmental Assessment and Restoration
 District: south
 Sampling Event: Lake Istokpoga

Send Coolers To:

Phone: (869)402-6545
 Highlands County Parks and Natural Resources
 4344 George Blvd.
 Sebring, FL 33875
 Attn: Clell Ford

Program Module Number:
 Priority: 3
 Event Status: S
 Criminal Investigation: NO
 Chemistry Request Reviewed By: WATTS_J On: 11-AUG-2016
 Biology Request Reviewed By: MATTHEWS_D On: 12-AUG-2016
 Sampling Kit Required: YES Ship on: 24-AUG-2016
 Sampling Kit Shipped: YES On: 22-AUG-2016
 Sampling Kit Packed By: SHAIK_A
 Preservatives Needed: YES
 Date to Receive Samples: 05-SEP-2016
 Received By:

Send Final Report To:

2295 Victoria AVE
 Suite 364
 Fort Myers, FL 33901
 Attn: Kirby Wolfe

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

Comments: Analyze toxin upon receipt after consultation with Biology's Taxonomy Manager or designee.

Bottle Groups A/B - separate event, priority 1
 Bottle Groups C/D - separate event, C - priority 3, D - priority 12

Bottle Group A - Priority 1
 For algal dominant taxon.

Bottle Group B - Priority 1
 For toxin testing.

Bottle Group C - Priority 3
 Water quality testing

Bottle Group D - Priority 12
 For algal full ID.

Bottle Group A (Biological) With 6 Samples:

Bottle Type: PT-50ML Number of Bottles: 6 Preserved With: ICE
 BLOOM-ID Template: DEFAULT (SOP-AB05) Assessment of dominant algal taxa in bloom or mat sample

Bottle Group B (Water) With 6 Samples:

Bottle Type: BG-WD250 Number of Bottles: 6 Preserved With: ICE
 W-MCYST-AA Template: DEFAULT (EPA 8321B) Microcystins in water matrices by HPLC/MS/MS

Bottle Group C (Water) With 6 Samples:

Bottle Type: BP-1L Number of Bottles: 6 Preserved With: ICE
 CHLSUITE-W Template: DEFAULT (SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry
 Bottle Type: P-1L Number of Bottles: 6 Preserved With: ICE
 TURBIDITY Template: DEFAULT (EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices
 W-COLOR Template: DEFAULT (SM 2120 B) True Color measured at 450 nm
 Color (true)
 W-TSS Template: DEFAULT (SM 2540 D-97) Total Suspended Solids in aqueous matrices
 Bottle Type: P-500ML Number of Bottles: 6 Preserved With: ICE And H2SO4

Bottle Group C (Water) With 6 Samples:

Bottle Type: P-500ML	Number of Bottles: 6	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: 6	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 D (Water) With 6 Samples:

Bottle Type: BP-1L	Number of Bottles: 6	Preserved With: Lugols
DTY-QN-C	Template: DEFAULT	(SOP-AB05_1) No. of diatom taxa of quantitative phytoplankton sample.
PKD-QN-C	Template: DEFAULT	(SOP-AB05) No. of wet taxa of quantitative phytoplankton sample.

* - The laboratory is not NELAP certified for this analyte/method, or certification is not applicable.

Log-in Checklist

RQ- 2016-09-03-16

Shipping Method: Fedex

Date/Time of Receipt: 9/28/16/10:21

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	
Blue	0.6	14		✓			8100 1918 2302
Red	-0.8	14		✓			8100 1918 2313
Red	-1.8	14		✓			8100 1918 2298

*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: 9/28/16 NCRs (Y/N)? N

Event ID: WRAP-2016-09-28-01 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: