

Shaik, Amzad

From: Musson, Curtis
Sent: Wednesday, April 12, 2017 15:11
To: Shaik, Amzad
Subject: RQ-2017-04-10-20 Extra Bottles - Metals Analysis

Amzad,

The metals analyses needed for the added bottle is

W-ICP	Calcium, Chromium, Iron, Magnesium, Nickel, Potassium, Sodium, Zinc
W- ICPMS	Arsenic, Cadmium, Copper, Lead, Silver

Thanks,

Curtis Musson
Environmental Consultant
Division of Environmental Assessment and Restoration
Florida Department of Environmental Protection
2600 Blairstone Rd, MS#3560
Tallahassee, FL 32399
Curtis.musson@dep.state.fl.us
(850) 245-8453

Request Number: 2017-04-10-20

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Central Lab Sample Submittal Form

Page 1 of 2

Lake Lafayette Drain, Moriah Creek

Requester: Curtis Musson

Field Report Prepared By: Curtis Musson

Customer: WQ-ASSESS

Sampling Agency: FDEP

Project ID: SMP

Collected By: Curtis Musson, Ben Ray

Loc# Moriah Creek 100 meters upstream of Newport Rd. Field ID Moriah Creek 100 meters upstream of Newport Rd. April 12, 2017 STORET # G1WA0057	☐ Comp ☒ Grab Date <u>4/12/17</u> Time <u>8:49</u> Matrix (Salt, <u>Fresh</u>) <u>Fresh</u> Temp (C) <u>17.78</u> Salinity (ppt) <u>0.15</u> Latitude (Decimal Degrees) <u>30.1857</u>	☒ Eastern ☐ Central Date <u>—</u> Time <u>—</u> Diss. Oxygen (mg/L) <u>6.65</u> pH <u>7.50</u> Comments Longitude (Decimal Degrees) <u>-84.1929</u>	Bottle Group(s) <u>A, C</u>
Loc# Lake Lafayette Drain 250 meters downstream of Weems Rd Field ID Lake Lafayette Drain 250 meters downstream of Weems Rd April 12, 2017 STORET # G1WA0007	☐ Comp ☒ Grab Date <u>4/12/17</u> Time <u>13:31</u> Matrix (Salt, <u>Fresh</u>) <u>Fresh</u> Temp (C) <u>22.19</u> Salinity (ppt) <u>0.08</u> Latitude (Decimal Degrees) <u>30.4544</u>	☒ Eastern ☐ Central Date <u>—</u> Time <u>—</u> Diss. Oxygen (mg/L) <u>8.29</u> pH <u>7.36</u> Comments Longitude (Decimal Degrees) <u>-84.2204</u>	Bottle Group(s) <u>A, B, C, D, E</u>
Location Field ID STORET #	☐ Comp ☐ Grab Date _____ Time _____ Matrix (Salt, Fresh) Temp (C) Salinity (ppt) Latitude (Decimal Degrees)	☐ Eastern ☐ Central Date _____ Time _____ Diss. Oxygen (mg/L) pH Comments Longitude (Decimal Degrees)	Bottle Group(s)

Relinquished By:

Curtis Musson

Date/Time

4/12/17 / 14:44

Number of Coolers

2 coolers / 7 set jug

Received By:

Ben Ray

Date/Time

4-12-17 / 14:44

Request Number: 2017-04-10-20		FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION Central Lab Sample Submittal Form				Page <u>1</u> of <u>2</u>				
Lake Lafayette Drain, Moriah Creek		Requester: Curtis Musson		Field Report Prepared By: <u>Curtis Musson</u>						
Customer: WQ-ASSESS				Sampling Agency: FDEP						
Project ID: SMP		Collected By: <u>Curtis Musson, Ben Rixs</u>								
Location: Moriah Creek 100 meters upstream of Newport Rd. Field ID: → Moriah Creek 100 meters upstream of Newport Rd. April 12, 2017		STORET #  G1WA0057		☐ Comp ☒ Grab Collection (comp begin or grab): Date <u>4/12/17</u> Time <u>8:49</u>		☒ Eastern ☐ Central Collection (comp begin or grab): Date <u> </u> Time <u> </u>		A, C		
		Matrix (Salt, <u>Fresh</u>) <u>Fresh</u>		Diss. Oxygen (mg/L) <u>6.65</u>						
		Temp (C) <u>17.78</u>		pH <u>7.50</u>		Sample Depts (m) <u>0.3</u>			Sp. Conductance (umho/cm) <u>306</u>	
		Salinity (ppt) <u>0.15</u>		Comments 						
		Latitude (Decimal Degrees) <u>30.1857</u>		Longitude (Decimal Degrees) <u>-84.1929</u>						
Location: Lake Lafayette Drain 250 meters downstream of Weems Rd Field ID: → Lake Lafayette Drain 250 meters downstream of Weems Rd April 12, 2017		STORET #  G1WA0007		☐ Comp ☒ Grab Collection (comp begin or grab): Date <u>4/12/17</u> Time <u>13:31</u>		☒ Eastern ☐ Central Collection (comp begin or grab): Date <u> </u> Time <u> </u>		A B, C, D E		
		Matrix (Salt, <u>Fresh</u>) <u>Fresh</u>		Diss. Oxygen (mg/L) <u>8.29</u>						
		Temp (C) <u>22.19</u>		pH <u>7.36</u>		Sample Depts (m) <u>0.2</u>			Sp. Conductance (umho/cm) <u>161</u>	
		Salinity (ppt) <u>0.08</u>		Comments 						
		Latitude (Decimal Degrees) <u>30.4544</u>		Longitude (Decimal Degrees) <u>-84.2204</u>						
Location: Field ID: STORET # 		☐ Comp ☐ Grab Collection (comp begin or grab): Date <u> </u> Time <u> </u>		☐ Eastern ☐ Central Collection (comp begin or grab): Date <u> </u> Time <u> </u>		Matrix (Salt, Fresh) 		Diss. Oxygen (mg/L) 		
		Temp (C) 		pH 		Sample Depts (m) 		Sp. Conductance (umho/cm) 		
		Salinity (ppt) 		Comments 						
		Latitude (Decimal Degrees) 		Longitude (Decimal Degrees) 						

Relinquished By:	Date/Time	Number of Coolers	Received By:	Date/Time
<u>Curtis Musson</u>	<u>4/12/17</u> / <u>14:44</u>	<u>2 coolers / 7 set jug</u>	<u>AR</u>	<u>4-12-17</u> / <u>14:44</u>

Group: A	Bottle Type: P-1L	# of Bottles: 2	Preservative: ICE	Enter Number of Bottles Sent to Lab <u>2</u>
ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS				
Group: A	Bottle Type: BP-1L	# of Bottles: 2	Preservative: ICE	Enter Number of Bottles Sent to Lab <u>2</u>
CHLSUITE-W				
Group: A	Bottle Type: P-500ML	# of Bottles: 2	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab <u>2</u>
W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC				
Group: A	Bottle Type: P-125ML	# of Bottles: 2	Preservative: ICE-FLTR	Enter Number of Bottles Sent to Lab <u>2</u>
W-PO4-F				
Group: B	Bottle Type: P-250ML-WO-THI	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab <u>1</u>
ECOLI-18QT				
Group: C	Bottle Type: PJ-2L	# of Bottles: 4	Preservative: Formalin	Enter Number of Bottles Sent to Lab <u>7</u>
MI-FW-QLDC				

Group D W-ICPMS # Bottles
W-ICP ϕ

~~H2SO4~~
HNO₃

1

Group E Algal-ID ϕ

ICG

1

Date of Request: 13-MAR-2017
 Created By: MUSSON_C On: 13-MAR-2017
 Modified By: MATTHEWS_D On: 23-MAR-2017
 Customer: WQ-ASSESS
 Project: SMP
 Division: Division of Environmental Assessment and Restoration
 District:
 Sampling Event: Killeam Outlet, Moriah Creek

Send Coolers To:

Phone: 850-245-8453
 Division Of Water Facilities, FL DEP
 2600 Blair Stone Rd.
 Tallahassee, FL 32399-2400
 Attn: Curtis Musson

Program Module Number:
 Priority: 3
 Event Status: S
 Criminal Investigation: NO
 Chemistry Request Reviewed By: WATTS_J On: 23-MAR-2017
 Biology Request Reviewed By: MATTHEWS_D On: 23-MAR-2017
 Sampling Kit Required: YES Ship on: 05-APR-2017
 Sampling Kit Shipped: YES On: 04-APR-2017
 Sampling Kit Packed By: SHAIK_A
 Preservatives Needed: NO
 Date to Receive Samples: 12-APR-2017
 Received By:

Send Final Report To:

Division Of Water Facilities, FL DEP
 2600 Blair Stone Rd.
 Tallahassee, FL 32399-2400
 Attn: curtis musson

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

Comments: Group A: Freshwater Nutrient Kit
 Group B: E. coli
 Group C: SCI

Packing Notes:
 No FedEx labels needed, sample swill be dropped off.

Bottle Group A (Water) With 2 Samples:

Bottle Type: P-1L	Number of Bottles: 2	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-SO4-IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Sulfate in aqueous matrices
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: 2	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: 2	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: 2	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: Number of Bottles: 1 Preserved With: ICE

Bottle Group B (Water) With 1 Samples:

Bottle Type:	Number of Bottles: 1	Preserved With: ICE
ECOLI-18QT	Template: DEFAULT	(SM 9223 Quanti-Tray) Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems

Bottle Group C (Biological) With 2 Samples:

Bottle Type: PJ-2L	Number of Bottles: 4	Preserved With: Formalin
MI-FW-QLDC	Template: DEFAULT	(SOP-IZ06) No. Taxa of FW macroinverts, qual samp, 20 dipnets.

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

RQ- 2017-04-10-20

Log-in Checklist

Shipping Method: HDDate/Time of Receipt: 04-12-17 / 14:04

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	Room Temp 2-9C	7 10		☒			QLDC samples

*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			W-CT-CI-R		

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

****Acid Preserved Samples:** pH $\leq$ 2.0? Yes ☒ No ☐ NA ☐ Init: ABJ

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

Coolers Unpacked/Checked by: ABJ Date: 4-12-17 NCRs (Y/N)? ☐

Event ID: Killearn Outlet, Moriah Creek
WQ-ASSESS-2017-04-12-01 (SMP)
Date Received: 12-APR-2017 14:04

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: