

Klug, Kyle

From: O'Brien, Brett <BOBrien@leegov.com>
Sent: Wednesday, March 24, 2021 11:59 AM
To: Klug, Kyle; Hormuth, Chris
Cc: Watts, John
Subject: RE: RQ-2021-03-08-44 | Matrix

I'm not sure what exactly you use to determine matrix as it may be different from what we call it. We consider IMPRGR51 to be fresh and the other 4 to be estuarine based on the WBIDs they fall in. I just notated their WBID class (3F or 3M). But if you determine fresh vs marine based on a conductivity number they could fluctuate over the year based on tides as all of those sites can be tidally influenced. Our lab had previously considered anything below 4580uS to be fresh, so that would be IMPRGR51, IMPRGR41, and 47A-15GR. Let me know how you would like us to designate them going forward.

From: Klug, Kyle <Kyle.Klug@FloridaDEP.gov>
Sent: Wednesday, March 24, 2021 11:42 AM
To: Hormuth, Chris <Chris.Hormuth@FloridaDEP.gov>; O'Brien, Brett <BOBrien@leegov.com>
Cc: Watts, John <John.Watts@FloridaDEP.gov>
Subject: [EXTERNAL] RQ-2021-03-08-44 | Matrix
Importance: High

Good morning,

Will you please confirm the Matrix for all 5 sites? They were all recorded as SW but I wasn't sure if some were fresh or salt based on the Sp. Conductance.

Thank you,



Kyle Klug
Lab Technician IV
DEP Laboratories
Voice: 850.245.8153
Kyle.Klug@floridadep.gov



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Login Checklist

RQ- 2021-03-08-44

Login Station ID: #5

Shipping Method: FedEx | UPS | HD | Greyhound

Date/Time of Receipt: 3/ 24 /21 @ 10:25

*Cooler Temperature	Samples Frozen?	* All Samples in Cooler Preserved with		Number of Sample Containers in Cooler	Evidence Tape				Waybill Tracking #
					Present?		*Intact?		
	YES	HNO ₃	Formalin		Yes	No	Yes	No	
1.9				10		✓			9293 8010 7224

COOLER CHECK

*All samples received on ice unless otherwise noted. HNO₃ and Formalin preserved samples do NOT have a temperature requirement.

- If the temperature of a cooler exceeds 6.0 oC (above 10.0 oC for W-1-4-DIOX and microbiology) or received without ice, identify affected samples in an NCR. NCR# _____
- DOH coolers can exceed 2.0 °C above the standard temperature (6.0 or 10.0 °C for W-1-4-DIOX) without login confirmation from customer for samples requiring ice preservation; identify affected samples in an NCR. NCR# _____
- If cooler or samples are received with a damaged Evidence Seal; identify the affected samples in an NCR. NCR# _____
- If coolers or samples are received late; identify the affected samples in an NCR. NCR# _____

Chain of Custody/ Field Sheet(s) Included?

Yes ☒ No ☐

Micro-Biology Overflow Chain of Custody/ Field Sheet(s) Included?

Yes ☐ No ☒

CONTAINER CHECK

Evidence Tape on Bottles?

Yes ☐ No ☐ NA ☒

Evidence Tape intact? Yes ☐ No ☐

If Criminal, photographs taken?

Yes ☐ No ☐

Containers intact? Yes ☒ No ☐

Caps on tight?

Yes ☒ No ☐

Sufficient Sample Volume:

Yes ☒ No ☐

If **NO** is checked above, generate an NCR listing affected sample IDs in its appropriate category. NCR# _____

CHLORINE CHECK REQUIRED? (Blue dot on container)

Yes ☒ No ☐ Init: KK

Chlorine detected? (One container checked per Field ID)

Yes ☐ No ☒ Init: KK

If chlorine is detected, generate an NCR listing affected sample IDs . NCR# _____

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

**Acid Preserved Samples: pH < 2.0?

Yes ☐ No ☐ NA ☒ Init: KK

**W-1-4-DIOX (Green dot on container) preserved to pH < 4.0?

Yes ☐ No ☐ NA ☒ Init: KK

If samples were not preserved correctly, generate an NCR listing affected sample IDs . NCR# _____

Coolers Unpacked/Checked by: KK

Date: 3/ 24 /21

Event contains NCRs (Y/N)? ☒

Event ID: 2021 SMP: Lee County Sampling
SO-DIST-2021-03-24-04 (SMP)

Date Received: 24-MAR-2021 10:25

Login Checklist

Login Preservation Equipment

Lot # & Exp: Date

Additional Comments:

Infrared Thermometer ID:	IR TEMP GUN #5 EXP:10-28-21
pH Test Strips 0 – 6	
pH Paper 0 – 3	
pH Paper 0 – 13	Lot#210620 EXP:4-15-23
Chlorine Test Strips	Lot#0261 EXP:5-23

ENCORE SAMPLES

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

Were Encore samples received? Yes _____ Init: _____

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 _____

If S-VOC-MS samples were not preserved correctly, generate an NCR listing affected sample IDs . NCR# _____

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: _____

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Customer: SO-DIST

Project ID: SMP

Requester: Chris Hormuth

Field Report Prepared By:

Collected By:

Bret O'Brien / Liza Rollins / Garrett K

Sampling Agency:

LCEL

Location 47A-4GR		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 3/23/21 Time 0937		☒ Eastern ☐ Central		Composite end Date Time		Bottle Group(s) (See pg 2)	
Field ID		Matrix (type, e.g., Salt, Fresh, etc) SW 3M		Diss. Oxygen 3.83		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		A	
WIN/STORET #		Temp (C) 21.22		pH 7.29		Sample Depth 0.4		Sp. Conductance (umho/cm) 20368			
Latitude ☐ dd ☐ dms		Longitude ☐ dd ☐ dms		Salinity (ppt) ☐ dd ☐ dms		Comments					
Location 47A-15GR		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 3/23/21 Time 0916		☒ Eastern ☐ Central		Composite end Date Time		Bottle Group(s)	
Field ID		Matrix (type, e.g., Salt, Fresh, etc) SW 3M		Diss. Oxygen 3.86		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		A	
WIN/STORET #		Temp (C) 20.77		pH 7.27		Sample Depth 0.2		Sp. Conductance (umho/cm) 3640			
Latitude ☐ dd ☐ dms		Longitude ☐ dd ☐ dms		Salinity (ppt) ☐ dd ☐ dms		Comments					
Location IMPRGR 51		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 3/23/21 Time 9:25		☒ Eastern ☐ Central		Composite end Date Time		Bottle Group(s)	
Field ID		Matrix (type, e.g., Salt, Fresh, etc) SW 3M 3F		Diss. Oxygen 2.17		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		A	
WIN/STORET #		Temp (C) 21.85		pH 7.04		Sample Depth 0.4		Sp. Conductance (umho/cm) 1608			
Latitude ☐ dd ☐ dms		Longitude ☐ dd ☐ dms		Salinity (ppt) ☐ dd ☐ dms		Comments					
Location IMPRGR 41		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 3/23/21 Time 9:41		☒ Eastern ☐ Central		Composite end Date Time		Bottle Group(s)	
Field ID		Matrix (type, e.g., Salt, Fresh, etc) SW 3M		Diss. Oxygen 3.04		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		A	
WIN/STORET #		Temp (C) 21.09		pH 7.20		Sample Depth 0.5		Sp. Conductance (umho/cm) 4122			
Latitude ☐ dd ☐ dms		Longitude ☐ dd ☐ dms		Salinity (ppt) ☐ dd ☐ dms		Comments					

Relinquished By:

B. O'Brien

Date/Time

3/23/21 1430

Shipping Method

FedEx

Number of Coolers Shipped:

1

Received By:

VH

Date/Time

3-24-21/1025

Group: A	Bottle Type:	QPCR-P-500ML	# of Bottles: 5	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	PCR-BACR					
	PCR-DG3					
	PCR-HF183					

Group: A	Bottle Type:	BG-500ML	# of Bottles: 5	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	W-E8321-DI					
	W-E8321-MS					

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Customer: SO-DIST

Project ID: SMP

Requester: Chris Hormuth

Field Report Prepared By:

Collected By: Liza Rollins/Garrett Kusinski

Sampling Agency: LCEL

Location IMPR GR 30		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 3/23/21 Time 10:01		☒ Eastern ☐ Central	Composite end Date _____ Time _____		Bottle Group(s) (See pg 2) A
Field ID		Matrix (type, e.g., Salt, Fresh, etc.) SW 3M		Diss. Oxygen 4.58		☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/STORET #		Temp (C) 22.34		pH 7.34		Sample Depth 0.5		
Latitude ☐ dd ☐ dms		Longitude ☐ dd ☐ dms		Salinity (ppt) ☐ dd ☐ dms		Sp. Conductance (umho/cm) 17843		
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)	
WIN/STORET #		Temp (C)		pH		Sample Depth		
Latitude ☐ dd ☐ dms		Longitude ☐ dd ☐ dms		Salinity (ppt) ☐ dd ☐ dms		Sp. Conductance (umho/cm)		
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)	
WIN/STORET #		Temp (C)		pH		Sample Depth		
Latitude ☐ dd ☐ dms		Longitude ☐ dd ☐ dms		Salinity (ppt) ☐ dd ☐ dms		Sp. Conductance (umho/cm)		
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)	
WIN/STORET #		Temp (C)		pH		Sample Depth		
Latitude ☐ dd ☐ dms		Longitude ☐ dd ☐ dms		Salinity (ppt) ☐ dd ☐ dms		Sp. Conductance (umho/cm)		
Comments								

Relinquished By: BFCB	Date/Time 3/23/21 1430	Shipping Method Fed EX	Number of Coolers Shipped: 1	Received By: KK	Date/Time 3-24-21/1025
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Group: A	Bottle Type:	QPCR-P-500ML	# of Bottles: 5	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	PCR-BACR					
	PCR-DG3					
	PCR-HF183					

Group: A	Bottle Type:	BG-500ML	# of Bottles: 5	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	W-E8321-DI					
	W-E8321-MS					

Printed: 3/24/2021 11:26:56 AM

Page 1 of 1

Date of Request: 18-FEB-2021
 Created By: HORMUTH_C On: 18-FEB-2021
 Modified By: JASROTIA_P On: 19-FEB-2021
 Customer: SO-DIST
 Project: SMP
 Division: Division of Environmental Assessment and Restoration
 District: South District
 Event Description: 2021 SMP: Lee County Sampling

Send Coolers To:

Phone: 239-533-8600 ext 48605
 Lee County Environmental Lab
 60 S. Danley Dr #2
 Fort Myers, FL 33907
 Attn: Brett O'Brien
 Cooler Ship EMail:
 Chris.Hormuth@FloridaDEP.gov;BOBrien@leegov.com

Priority: 3
 Event Status: S
 Criminal Investigation: NO
 Chemistry Request Reviewed By: WATTS_J On: 19-FEB-2021
 Biology Request Reviewed By: JASROTIA_P On: 19-FEB-2021
 Sampling Kit Required: YES Ship on: 26-FEB-2021
 Sampling Kit Shipped: YES On: 24-FEB-2021
 Sampling Kit Packed By: KLUG_K
 Preservatives Needed: NO
 Date to Receive Samples: 08-MAR-2021
 Logged In By:

Send Final Report To:

FLDEP South District Office
 2295 Victoria Ave. Suite 364
 Fort Myers, FL 33901-3381
 Attn: Chris Hormuth
 Report Notification EMail:
 Nicole.Reistad@FloridaDEP.gov;Kirby.Wolfe@dep.state.fl.us;Ga
 ry.Snorek@dep.state.fl.us;Chris.Hormuth@FloridaDEP.gov

Comments: Group A: Markers, Tracers

Bottle Group A (Water) With 5 Samples:

Bottle Type: QPCR-P-500ML	Number of Bottles: 5	Preserved With: ICE
PCR-BACR	Template: DEFAULT	(SOP-PCR-1.4) Detection and quantification of Ruminant specific Bacteroidetes BacR genetic marker with quantitative polymerase chain reaction
PCR-DG3	Template: DEFAULT	(SOP-PCR-1.5) Detection and quantification of canine-specific DG3 Bacteroides genetic marker with quantitative polymerase chain reaction
PCR-HF183	Template: DEFAULT	(SOP-PCR-1.0) Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction
Bottle Type: BG-500ML	Number of Bottles: 5	Preserved With: ICE
W-E8321-DI	Template: DEFAULT	(EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS
W-E8321-MS	Template:	(EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

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