

Klug, Kyle

From: Klug, Kyle
Sent: Friday, June 3, 2022 8:50 AM
To: Mark Aubel
Cc: amandafoss@greenwaterlab.com; Rankin, Amelia
Subject: RE: Dermatoxin Analysis hold time

Importance: High

Mark,

I spoke with Amelia about these samples and she informed me that there was mix-up with the sampling team and that these samples were not meant to be collected. I will be canceling these three samples as the data is not needed for them. I am very sorry for any inconvenience this has caused on your end, but those samples can be thrown out.

Thank you,
Kyle

From: Mark Aubel <markaubel@greenwaterlab.com>
Sent: Wednesday, June 1, 2022 9:28 PM
To: Klug, Kyle <Kyle.Klug@FloridaDEP.gov>
Cc: amandafoss@greenwaterlab.com
Subject: Dermatoxin Analysis hold time
Importance: High

EXTERNAL MESSAGE

This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Hi Kyle,

Due to short staffing this past week, the recent samples (2328626, 2328627, 2328628) we received have exceeded our hold time prior to extraction (although stored in refrig). We can continue with extraction/analysis for dermatotoxins with a qualifier noted if desired. Doubtful data will be impacted.

Regards,
Mark

Contact Info:
Mark T. Aubel, Ph.D.
GreenWater Lab/CyanoLab
205 Zeagler Drive, Suite 302
Palatka, FL 32177
www.greenwaterlab.com

GreenWater **Cyano**
laboratories **LAB**
algal toxin analysis...research...consulting

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RQ-20 22-04-25-47

Login Checklist

Login Station ID: #2

Shipping Method: FedEx | UPS | HD | Greyhound

Date/Time of Receipt: 5/20/2022 9:15

*Cooler Temperature	Samples Frozen?	* All Samples in Cooler Preserved with		Number of Sample Containers in Cooler	Evidence Tape				Waybill Tracking #
		YES	HNO ₃		Formalin	Present?	*Intact?		
					Yes	No	Yes	No	
2.0				18		✓			5225 5545 9825

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: IM

Chlorine detected? (One container checked per Field ID)

Yes ☐ No ☐ Init: _____

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: IM

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

Yes ☐ No ☐ NA ☒ Init: IM

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

Coolers Unpacked/Checked by: IM

Date: 5/20/2022

Event contains NCRs (Y/N)? ☒

Event ID:

Algal Bloom Response - SOROC
 WQAP-2022-05-20-01 (BLOOM-RESP)
 Date Received: 20-MAY-2022 09:15

Login Checklist

Login Preservation Equipment

Lot # & Exp: Date

Additional Comments:

Infrared Thermometer ID:	IR TEMP GUN #2 exp:10/19/22
pH Test Strips 0 – 6	
pH Paper 0 – 3	
pH Paper 0 – 13	210620 exp: 4/15/23
Chlorine Test Strips	0070 exp: 02/2023

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: _____



Cyanobacteria Bloom Response Field Data Sheet (2019-12-16 v4)

Email scanned submittal forms to lab.receiving@FloridaDEP.gov

RQ - 7022-04-25-47		Collected By: <i>Monica Tucker</i>								
Customer: <i>FDLP</i>		Field Report Prepared By: <i>Thomas Baker</i>								
Project ID: <i>Bloom Response</i>		Sampling Agency: <i>SRDL</i>								
Location: <i>Caloosahatchee River - River Forest Kayak Launch</i>		Comments: <i>No visible algae observed at time of sampling</i>								
Field ID: <i>B</i> <i>NA# - SA-05192022-0900</i>		Coordinates: <i>26.71542N, -81.73615W</i>								
WIN ID:		Collection Equip: <i>Bottle</i>								
Matrix: <i>Fresh</i>		High Tide Time: _____ Low Tide Time: _____								
Grab ☒		Tide: ☐ Rising ☐ Falling ☐ Slack ☒ N/A								
Water Quality										
Date	Time ☒ EST ☐ CEN	D.O. (%)	D.O. (mg/L)	Temp (°C)	pH (SU)	Sample Depth (m)	Total Depth (m)	Secchi Disk (m)	Sp. Cond. (µmho/cm)	Salinity (PPT)
05/19/22	0900	107.7	8.29	28.8	8.29	0.15	0.3	0.3	8545	0.26
Bloom Observations										
Algal Bloom Observed? ☐ Yes ☒ No										
Water Surface	☒ Clear	☐ Scum	☐ Globs	☐ Slick						
Water Clarity	☒ Clear	☐ Slightly Turbid	☐ Turbid	☐ Opaque						
Bloom Color	☐ Green	☐ Red	☐ Brown	☐ Other: _____	☒ N/A					
Algae Distribution	☐ Suspended in water column	☐ On surface	☐ Other: _____	☒ N/A						
Water Odors	☒ Normal	☐ Sewage	☐ Petroleum	☐ Chemical	☐ Other: _____					
Parameter Suite	Parameter Methods		Preservation		pH Check	#Bottles Sent to Lab	Bottle Group			
Bloom ID (PT-50mL)	☒ BLOOM-ID		☒ Ice			1	A			
Chlorophyll (BP-1L)	☒ CHLSUITE-W		☒ Ice			1	B			
Toxins (BG-WD250)	☒ W-MCYST-AA		☒ Ice			1	B			
Preserved Nutrients (500mL HDPE)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP		☒ Ice	☒ H2SO4	☒ <2	1	B			
	Acid Lot: <i>SA1328030</i>		Exp: <i>12/01/22</i>							
Filtered Nutrients (P125mL)	☒ W-PO4-F		☒ Field Filtered 0.45µm Filter		☒ Ice	1	B			
Quantitative Algae	☐ DTY-QN-C / PKD-QN-C		☐ Ice		Lugols? Y/N					
Relinquished By: <i>Thomas Baker</i>	Date/Time: <i>05/19/22 1400</i>	Number of Coolers Shipped: <i>1</i>		Received By: <i>IM</i>	Date/Time: <i>5/20/22 9:15</i>					



Cyanobacteria Bloom Response Field Data Sheet (2019-12-16 v4)

Email scanned submittal forms to lab.receiving@FloridaDEP.gov

RQ - 2022-04-25-47		Collected By: Monica Jaeger								
Customer: FDEP		Field Report Prepared By: Thomas Baker								
Project ID: Bloom Response		Sampling Agency: FDEP SRO								
Location: Alachua County River Boat Ramp		Comments: Algae observed, suspended in water								
Field ID: HAB-SD-05192022-810		Coordinates: 26.71391N, -81.60595W								
WIN ID:		Collection Equip: Bottle								
Matrix: Fresh		High Tide Time:								
Grab		Low Tide Time:								
Tide: ☐ Rising ☐ Falling ☐ Slack ☒ N/A										
Water Quality										
Date	Time ☒ EST ☐ CEN	D.O. (%)	D.O. (mg/L)	Temp (°C)	pH (SU)	Sample Depth (m)	Total Depth (m)	Secchi Disk (m)	Sp. Cond. (µmho/cm)	Salinity (PPT)
05/19/22	0855 0810	123.7	9.55	28.8	8.29	0.3	0.8	0.8	478.6	0.23
Bloom Observations										
Algal Bloom Observed? ☒ Yes ☐ No										
Water Surface	☐ Clear	☐ Scum	☐ Globs	☒ Slick						
Water Clarity	☒ Clear	☐ Slightly Turbid	☐ Turbid	☐ Opaque						
Bloom Color	☒ Green	☐ Red	☐ Brown	☐ Other: _____ ☐ N/A						
Algae Distribution	☒ Suspended in water column	☒ On surface	☐ Other: _____ ☐ N/A							
Water Odors	☒ Normal	☐ Sewage	☐ Petroleum	☐ Chemical	☐ Other: _____					
Parameter Suite	Parameter Methods		Preservation	pH Check	#Bottles Sent to Lab	Bottle Group				
Bloom ID (PT-50mL)	☒ BLOOM-ID		☒ Ice		1	A				
Chlorophyll (BP-1L)	☒ CHLSUITE-W		☒ Ice		1	B				
Toxins (BG-WD250)	☒ W-MCYST-AA		☒ Ice		1	B				
Preserved Nutrients (500mL HDPE)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP		☒ Ice ☒ H2SO4	☒ <2	1	B				
Acid Lot: SA1308030		Exp: 12/01/22								
Filtered Nutrients (P125mL)	☒ W-PO4-F		☒ Field Filtered 0.45µm Filter	☒ Ice	1	B				
Filter Lot #: 17441866										
Quantitative Algae	☐ DTY-QN-C / PKD-QN-C		☐ Ice	Lugols? Y/N						
Relinquished By:	Date/Time	Number of Coolers Shipped		Received By:		Date/Time				
Thomas Baker	05/19/22 1400	1		IM		5/20/22 9:15				



Cyanobacteria Bloom Response Field Data Sheet (2019-12-16 v4)

Email scanned submittal forms to lab.receiving@FloridaDEP.gov

RQ - 2022-04-25-47		Collected By: <i>Monica Juerges</i>	
Customer: <i>FDPEP</i>		Field Report Prepared By: <i>Monica Baker</i>	
Project ID: <i>Bloom Response</i>		Sampling Agency: <i>SRDC</i>	
Location: <i>Caloosahatchee River - Davis Boat Ramp</i>		Comments: <i>algae suspended, construction at Boat ramp</i>	
Field ID: <i>HA13-SR-05142022-0925</i>		Coordinates: <i>26.1317, -81.753221</i>	
WIN ID:		Collection Equip: <i>Bottle, no 10</i>	
Matrix: <i>Free</i>		High Tide Time: <i>0920</i> Low Tide Time: <i>1128</i>	
Grab		Tide: ☐ Rising ☒ Falling ☐ Slack ☐ N/A	

Water Quality										
Date	Time ☒ EST ☐ CEN	D.O. (%)	D.O. (mg/L)	Temp (°C)	pH (SU)	Sample Depth (m)	Total Depth (m)	Secchi Disk (m)	Sp. Cond. (µmho/cm)	Salinity (PPTH)
<i>05/19/22</i>	<i>0925</i>	<i>122.6</i>	<i>9.35</i>	<i>29.4</i>	<i>8.55</i>	<i>0.3</i>	<i>1.1</i>	<i>1.0</i>	<i>666</i>	<i>0.32</i>

Bloom Observations						
Algal Bloom Observed? ☒ Yes ☐ No						
Water Surface	☒ Clear	☐ Scum	☐ Globs	☐ Slick		
Water Clarity	☐ Clear	☒ Slightly Turbid	☐ Turbid	☐ Opaque		
Bloom Color	☒ Green	☐ Red	☐ Brown	☐ Other: _____ ☐ N/A		
Algae Distribution	☒ Suspended in water column		☐ On surface	☐ Other: _____ ☐ N/A		
Water Odors	☒ Normal	☐ Sewage	☐ Petroleum	☐ Chemical ☐ Other: _____		

Parameter Suite	Parameter Methods	Preservation	pH Check	#Bottles Sent to Lab	Bottle Group
Bloom ID (PT-50mL)	☒ BLOOM-ID	☒ Ice		1	A
Chlorophyll (BP-1L)	☒ CHLSUITE-W	☒ Ice		1	B
Toxins (BG-WD250)	☒ W-MCYST-AA	☒ Ice		1	B
Preserved Nutrients (500mL HDPE)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP	☒ Ice ☒ H2SO4	☒ <2	1	B
Acid Lot: <i>SA1308030</i>		Exp: <i>12/01/22</i>			
Filtered Nutrients (P125mL)	☒ W-PO4-F	☒ Field Filtered 0.45µm Filter	☒ Ice	1	B
Filter Lot #: <i>17441866</i>					
Quantitative Algae	☐ DTY-QN-C / PKD-QN-C	☐ Ice	Lugols? Y / N		

Relinquished By: <i>Thomas Baker</i>	Date/Time: <i>05/19/22 1400</i>	Number of Coolers Shipped: <i>1</i>	Received By: <i>IM</i>	Date/Time: <i>5/20/22 9:15</i>
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Date of Request: 22-APR-2022
 Created By: RANKIN_A On: 22-APR-2022
 Modified By: JASROTIA_P On: 25-APR-2022
 Customer: WQAP
 Project: BLOOM-RESP
 Division:
 District:
 Event Description: Algal Bloom Response - SOROC

Send Coolers To:

Phone: 239-344-5719
 2295 Victoria Ave
 Suite 364
 Fort Myers, FL 33901
 Attn: Kirby Wolfe
 Cooler Ship Email: Kirby.Wolfe@FloridaDEP.gov

Priority: 1
 Event Status: R
 Criminal Investigation: NO
 Chemistry Request Reviewed By: AYRES_J On: 22-APR-2022
 Biology Request Reviewed By: JASROTIA_P On: 25-APR-2022
 Sampling Kit Required: YES Ship on: 29-APR-2022
 Sampling Kit Shipped: YES On: 29-APR-2022
 Sampling Kit Packed By: SHAIK_A
 Preservatives Needed: NO
 Date to Receive Samples: 25-APR-2022
 Logged In By: SHAIK_A On: 05-MAY-2022

Send Final Report To:

2295 Victoria Ave
 Suite 36
 Fort Myers, FL 33901
 Attn: Kirby Wolfe
 Report Notification Email:
 kirby.wolfe@floridadep.gov;Kalina.Warren@dep.state.fl.us;Cheryl.Swanson@FloridaDEP.gov;Nicole.Reistad@FloridaDEP.gov;John.Barrington@FloridaDEP.gov;Gary.Snorek@dep.state.fl.us

Comments: Unless peak algal bloom season, may analyze toxin after consultation with Biology's Taxonomy Manager.

Bottle Group A - Priority 1
 For algal dominant taxon.

Bottle Group B - Priority 1
 For toxins, nutrients, chlorophyll

There are multiple bottles per Group in case multiple sample targets or sample locations are needed. Samplers use best professional judgement to decide which samples are appropriate to collect for a particular response. All sets of bottles do not have to be filled at one time.

Please print two copies of algal job labels at login.

Bottle Group A (Biological) With 4 Samples:

Bottle Type: PT-50ML	Number of Bottles: 4	Preserved With: ICE
BLOOM-ID	Template: DEFAULT	(SOP-AB05) Assessment of dominant algal taxa in bloom or mat sample

Bottle Group B (Water) With 4 Samples:

Bottle Type: BP-1L	Number of Bottles: 4	Preserved With: ICE
CHLSUITE-W	Template: DEFAULT	(SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry
Bottle Type: BG-250ML-WDMTH	Number of Bottles: 4	Preserved With: ICE
OV-TOXN-LC	Template: DEFAULT	(SOP 67 (Greenwater)) Algal Dermatotoxins by LC/MS/MS using Greenwater Laboratory
Bottle Type: BG-250ML-WDMTH	Number of Bottles: 4	Preserved With: ICE
W-MCYST-AA	Template: DEFAULT	(EPA 8321B) Microcystins in water matrices by HPLC/MS/MS
Bottle Type: P-500ML	Number of Bottles: 4	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
Bottle Type: P-125ML	Number of Bottles: 4	Preserved With: FILTER-ICE
W-PO4-F	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

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

Date of Request: 22-APR-2022
 Created By: RANKIN_A On: 22-APR-2022
 Modified By: JASROTIA_P On: 25-APR-2022
 Customer: WQAP
 Project: BLOOM-RESP
 Division:
 District:
 Event Description: Algal Bloom Response - SOROC

Send Coolers To:

Phone: 239-344-5719
 2295 Victoria Ave
 Suite 364
 Fort Myers, FL 33901
 Attn: Kirby Wolfe
 Cooler Ship Email: Kirby.Wolfe@FloridaDEP.gov

Priority: 1
 Event Status: R
 Criminal Investigation: NO
 Chemistry Request Reviewed By: AYRES_J On: 22-APR-2022
 Biology Request Reviewed By: JASROTIA_P On: 25-APR-2022
 Sampling Kit Required: YES Ship on: 29-APR-2022
 Sampling Kit Shipped: YES On: 29-APR-2022
 Sampling Kit Packed By: SHAIK_A
 Preservatives Needed: NO
 Date to Receive Samples: 25-APR-2022
 Logged In By: SHAIK_A On: 05-MAY-2022

Send Final Report To:

2295 Victoria Ave
 Suite 36
 Fort Myers, FL 33901
 Attn: Kirby Wolfe
 Report Notification Email:
 kirby.wolfe@floridadep.gov; Kalina.Warren@dep.state.fl.us; Chery
 l.Swanson@FloridaDEP.gov; Nicole.Reistad@FloridaDEP.gov; Jo
 hn.Barrington@FloridaDEP.gov; Gary.Snorek@dep.state.fl.us

Comments: Unless peak algal bloom season, may analyze toxin after consultation with Biology's Taxonomy Manager.

Bottle Group A - Priority 1
 For algal dominant taxon.

Bottle Group B - Priority 1
 For toxins, nutrients, chlorophyll

There are multiple bottles per Group in case multiple sample targets or sample locations are needed. Samplers use best professional judgement to decide which samples are appropriate to collect for a particular response. All sets of bottles do not have to be filled at one time.

Please print two copies of algal job labels at login.

Bottle Group A (Biological) With 4 Samples:

Bottle Type: PT-50ML	Number of Bottles: 4	Preserved With: ICE
BLOOM-ID	Template: DEFAULT	(SOP-AB05) Assessment of dominant algal taxa in bloom or mat sample

Bottle Group B (Water) With 4 Samples:

Bottle Type: BP-1L	Number of Bottles: 4	Preserved With: ICE
CHLSUITE-W	Template: DEFAULT	(SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry
Bottle Type: BG-250ML-WDMTH	Number of Bottles: 4	Preserved With: ICE
OV-TOXN-LC	Template: DEFAULT	(SOP 67 (Greenwater)) Algal Dermatotoxins by LC/MS/MS using Greenwater Laboratory
Bottle Type: BG-250ML-WDMTH	Number of Bottles: 4	Preserved With: ICE
W-MCYST-AA	Template: DEFAULT	(EPA 8321B) Microcystins in water matrices by HPLC/MS/MS
Bottle Type: P-500ML	Number of Bottles: 4	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
Bottle Type: P-125ML	Number of Bottles: 4	Preserved With: FILTER-ICE
W-PO4-F	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

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

