Ayres, Joshua

From: Rankin, Amelia
Sent: Friday, October 11, 2019 4:01 PM
To: Reynolds, Tyler
Cc: Ayres, Joshua; Watts, John
Subject: FW: 10/10/19 Lake Grace Bloom Samples
Attachments: WQAP-2019-10-11-01 ALGAL BLOOM RESPONSE - AS NEEDED - 10 - 11 - 19.pdf

Hi,

Would you guys please log in the 2 bloom samples containers in this event as 2 different samples? It was not made clear on the submittal sheets (attached) that one sample is scum and the other is not. Leif Boman (one of the samplers) clarified in the below email. The 2 field IDs should be Lake Grace (0.3 m sampling depth) and Lake Grace-scum (0.1 m sampling depth). The parameters on the submittal sheet are for Lake Grace.

Let me know if you have any questions!
Amelia

From: Boman, Leif <Leif.Boman@FloridaDEP.gov>
Sent: Friday, October 11, 2019 2:59 PM
To: Rankin, Amelia <Amelia.Rankin@FloridaDEP.gov>
Cc: Linger, Michael <Michael.Linger@FloridaDEP.gov>; Warren, Kalina <Kalina.Warren@dep.state.fl.us>; Swanson, Cheryl <Cheryl.Swanson@dep.state.fl.us>
Subject: RE: 10/10/19 Lake Grace Bloom Samples

Hi Amelia,
Yes, not a problem. Mike Linger and I sampled Lake Grace for the reported algal bloom on 10/10/19. After locating the bloom we collected field reading and water samples at the representative site for what we could find. I took a sample there for the suspended algae we could observe in the water. As we paddled back we noticed just a couple patches of surface scum algae less than .3m in surface area and decided it might be of interest to the lab so we labeled and collected a tiny bit of the surface scum with the second vial we had in the algal kit. I think it would be appropriate to them Lake Grace and Lake Grace-scum.

Hope this helps clarify the collection. Please let me know if you have any more questions!

Best regards,
Leif Boman

From: Rankin, Amelia
Sent: Friday, October 11, 2019 2:11 PM
To: Boman, Leif <Leif.Boman@FloridaDEP.gov>
Cc: Linger, Michael <Michael.Linger@FloridaDEP.gov>; Warren, Kalina <Kalina.Warren@dep.state.fl.us>; Swanson, Cheryl <Cheryl.Swanson@dep.state.fl.us>
Subject: 10/10/19 Lake Grace Bloom Samples

Hi Leif,

You and I just spoke about the Bloom samples collected at Lake Grace on 10/10/19, but would you please reply to this email with what you told me? One sample was scum and the other was representative. Is it okay to call the visits (and

field IDs) Lake Grace and Lake Grace-scum? Are their collection times the same? I've attached the submittal sheets. Our lab will analyze both samples and report both on the bloom website.

Thank you for clearing this up!

Amelia Rankin
Taxonomy Manager
FDEP Laboratory--Biology Program
2600 Blair Stone Rd.
MS 6515
Tallahassee, FL 32399-2400
Phone: (850) 245-8182

Login Checklist

RQ-2019-09-16-49

Login Station ID: #4

Shipping Method: FedEx | UPS | HD | Greyhound

Date/Time of Receipt: 10/11/2019 @ 16:00

Cooler Temperature*	Samples Frozen	* All Samples in Cooler Preserved with		Number of Sample Containers in Cooler	Evidence Tape				Tracking # Damaged waybills only
					Present?		*Intact?		
	YES	HNO_3	Formalin		Yes	No	Yes	No	
1.9°C				7		x			1190 3161 8189

*All samples received on ice unless otherwise noted. If the temperature of a cooler is above 6.0 °C (or above 10.0 °C for W-1-4-DIOX and microbiology), received without ice, or if Evidence Seal is damaged; identify the containers in the affected cooler(s) on back of this form. HNO3 and Formalin preserved samples do **NOT** have a temperature requirement. **DOH coolers can exceed 2.0 °C above the standard temperature (6.0 or 10.0 °C) without login confirmation from customer for samples requiring ice preservation; An NCR still is required.**

**Chain of Custody/ Field Sheet(s) Included? Yes ✓ No_____

Micro-Biology Overflow Chain of Custody/ Field Sheet(s) Included? Yes_____ No X

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

CONTAINER CHECK

Evidence Tape on Bottles? Yes_____ No X **If yes, is it intact? Yes_____ No_____

**Caps on tight? Yes ✓ No_____ **Containers intact? Yes ✓ No_____

**Sufficient Sample Volume: Yes ✓ No_____

CHLORINE CHECK REQUIRED? (Blue dot on container) Yes_____ No X Init: MP

Chlorine detected? (One container checked per Field ID) Yes_____ No_____ Init:_____

If "YES", list affected Field IDs and Test IDs below.

Field ID	List TestID(s) where Chlorine was Detected, an NCR is required.

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

**Acid Preserved Samples: pH≤ 2.0? Yes ✓ No____ NA____ Init: MP

**W-1-4-DIOX (Green dot on container) preserved to pH<4.0? Yes_____ No_____ NA X Init: MP

Coolers Unpacked/Checked by: Tyler R. **Date:** 10/11/2019 **NCRs (Y/N)?** N

Event ID: Algal Bloom Response - As needed
WQAP-2019-10-11-01 (BLOOM-RESP)
Date Received: 11-OCT-2019 10:00

NCR #_____

Login Checklist

Samples with Incorrect pH Preservation

Field ID	Bottle Test ID(s)	pH	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

Infrared Thermometer ID:	REC_04_2018 | EXP:04/29/2020
pH Test Strips 0 – 6 Lot #	213316AV | EXP:05/15/2020
pH Paper 0 – 3 Lot #	N/A
pH Paper 0 – 13 Lot #	215517 | EXP: 06/01/2020
Chlorine Test Strips Lot #	8261 | EXP: 07/30/2021

Additional Comments:

ENCORE SAMPLES

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

Were Encore samples received? Yes_____ No__X__

Date and time placed in freezer _____

Were all samples placed in freezer within 48 hours of collection? Yes_____If No_____

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: _____

Request Number: RQ-2019-09-16-49

Algal Bloom Response - As needed

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: WQAP

Project ID: BLOOM-RESP

Requester: Michael Linger

Collected By: Mike Linger / Leif Boman

Field Report Prepared By: Mike Linger

Sampling Agency: FDEP CE-ROC

Location / Field / WIN/STORET # / Latitude (☐ dd ☐ dms) / Longitude (☐ dd ☐ dms)	Lake Grace HAB 10/10/2019 MKL / LB
☐ Comp ☑ Grab	Collection (comp begin or grab) Date 10/10/19 Time 1245 (Eastern) Central
Composite end Date / Time	
Matrix (type, e.g., Salt, Fresh, etc)	Fresh (circled)
Diss. Oxygen ☑ mg/L ☐ % sat	4.70
Total Res. Chlorine (mg/L)	
Temp (C)	27.4
pH	7.14
Sample Depth ☐ ft ☑ m	0.3
Sp. Conductance (umho/cm)	141.7
Salinity (ppt)	
Comments	
Bottle Group(s) (See pg 2)	A, B, C

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

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

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

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
MKL	10/10/19 1600	FedEx	1	Tyler Reynolds	10/11/19 @ 10:00

Group: A	Bottle Type: BLOOM-ID	PT-50ML	# of Bottles: 2	Preservative:	ICE	**Enter Number of Bottles Sent to Lab**	2
Group: B	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 1	Preservative:	ICE	**Enter Number of Bottles Sent to Lab**	1
Group: B	Bottle Type: W-MCYST-AA	BG-250ML-WDMTH	# of Bottles: 1	Preservative:	ICE	**Enter Number of Bottles Sent to Lab**	1
Group: B	Bottle Type: W-NH3 W-NO2NO3 W-S-A-TP W-TKN	P-500ML	# of Bottles: 1	Preservative:	ICE And H2SO4	**Enter Number of Bottles Sent to Lab**	1
Group: B	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 1	Preservative:	FILTER-ICE	**Enter Number of Bottles Sent to Lab**	1
Group: C	Bottle Type: DTY-QN-C PKD-QN-C	BP-1L	# of Bottles: 1	Preservative:	Lugols	**Enter Number of Bottles Sent to Lab**	1

RQ-2019-09-16-49

Date of Request:	28-AUG-2019
Created By:	LINGER_M On: 28-AUG-2019
Modified By:	JASROTIA_P On: 06-SEP-2019
Customer:	WQAP
Project:	BLOOM-RESP
Division:	Division of Environmental Assessment and Restoration
District:	CEROC
Sampling Event:	Algal Bloom Response - As needed

Send Coolers To:

Phone: 407-897-4180
3319 Maguire Blvd
Suite 232
Orlando, FL 32803
Attn: Mike Linger

Send Final Report To:

3319 Maguire Blvd
Suite 232
Orlando, FL 32806
Attn: Mike Linger

Program Module Number:	
Priority:	1
Event Status:	R
Criminal Investigation:	NO
Chemistry Request Reviewed By:	WATTS_J On: 06-SEP-2019
Biology Request Reviewed By:	JASROTIA_P On: 06-SEP-2019
Sampling Kit Required:	YES Ship on: 11-SEP-2019
Sampling Kit Shipped:	YES On: 10-SEP-2019
Sampling Kit Packed By:	KLUG_K
Preservatives Needed:	NO
Date to Receive Samples:	16-SEP-2019
Received By:	REYNOLDS_T On: 11-OCT-2019

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

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

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

Bottle Group A - Priority 1
For algal dominant taxon.

Bottle Group B - Priority 1
For toxin testing, nutrients, and chlorophyll

Bottle Group C - Priority 12
For algal full ID

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 2 Samples:

Bottle Type: PT-50ML Number of Bottles: 2 Preserved With: ICE
BLOOM-ID Template: DEFAULT (SOP-AB05) Assessment of dominant algal taxa in bloom or mat sample

Bottle Group B (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, and phaeophytin by spectrophotometry
Bottle Type: BG-250ML-WDMTH Number of Bottles: 1 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: 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

Bottle Group B (Water) With 1 Samples:

Bottle Type: P-500ML Number of Bottles: 1 Preserved With: ICE And H2SO4

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: 1 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

Bottle Group C (Water) With 1 Samples:

Bottle Type: BP-1L Number of Bottles: 1 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.