

Reaves, Shawn D

From: Rankin, Amelia
Sent: Tuesday, November 22, 2022 11:31 AM
To: Reaves, Shawn D
Cc: Klug, Kyle; Ayres, Joshua
Subject: FW: 11/17/22 BLOOM-RESP Sample
Attachments: WQAP-2022-11-18-02.pdf

Putting this back at the top of the list, too.

Amelia

From: Rankin, Amelia
Sent: Monday, November 21, 2022 9:55 AM
To: Klug, Kyle <Kyle.Klug@floridadep.gov>
Cc: Ayres, Joshua <Joshua.Ayres@FloridaDEP.gov>; Reaves, Shawn D <Shawn.Reaves@FloridaDEP.gov>; Morse, Jessica <Jessica.Morse@FloridaDEP.gov>
Subject: FW: 11/17/22 BLOOM-RESP Sample

Good morning,

Based on the sampler's information, would you please correct one of the Site Locations in event WQAP-2022-11-18-02? Samson River @ SW CR 225 should be Sampson River @ SW CR 225.

Thank you!
Amelia

From: Villinger, Katrin <Katrin.Villinger@FloridaDEP.gov>
Sent: Monday, November 21, 2022 7:25 AM
To: Rankin, Amelia <Amelia.Rankin@FloridaDEP.gov>; Davis, Brian G. <Brian.G.Davis@FloridaDEP.gov>
Cc: Parrish, Jeremy M. <Jeremy.M.Parrish@FloridaDEP.gov>; Morse, Jessica <Jessica.Morse@FloridaDEP.gov>
Subject: RE: 11/17/22 BLOOM-RESP Sample

Good morning, Amelia!

That was indeed a typo and should have said Sampson.

Thank you for catching that!
Katrin



Katrin Villinger (She/Her)
Florida Department of Environmental Protection
Division of Environmental Assessment and
Restoration
Environmental Specialist I
Katrin.Villinger@FloridaDEP.gov
Office: 904-256-1541

From: Rankin, Amelia <Amelia.Rankin@FloridaDEP.gov>

Sent: Friday, November 18, 2022 5:13 PM

To: Davis, Brian G. <Brian.G.Davis@FloridaDEP.gov>; Villinger, Katrin <Katrin.Villinger@FloridaDEP.gov>

Cc: Parrish, Jeremy M. <Jeremy.M.Parrish@FloridaDEP.gov>; Morse, Jessica <Jessica.Morse@FloridaDEP.gov>

Subject: 11/17/22 BLOOM-RESP Sample

Hi!

There was a BLOOM-RESP sample collected from the Sampson River on 11/17/22. The submittal sheet (attached) has it spelled Samson (no "p"). Just confirming, it should be Sampson, correct? I'll ask Receiving to make the correction in LIMS.

Thanks!

Amelia Rankin

Taxonomy Manager

FDDEP Laboratory-Biology Program

2600 Blair Stone Rd.

MS 6515

Tallahassee, FL 32399-2400

Phone: (850) 245-8182

Login Checklist

RQ- 2022-11-14-57

Login Station ID: #4

Shipping Method: FedEx | UPS | HD | Greyhound

Date/Time of Receipt: 11/ 18 /2022 9:50

*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	
1.2				10		X			5859 4728 1380
-0.2				15		X			5859 4728 130

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 X

CONTAINER CHECK

Evidence Tape on Bottles?

Yes _____ No _____ NA X

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 X Init: NR

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: NR

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

Yes _____ No _____ NA X Init: NR

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

Coolers Unpacked/Checked by: NR

Date: 11/18/2022

Event contains NCRs (Y/N)? X

Event ID Algae Bloom Response NEROC-as needed

WQAP-2022-11-18-02 (BLOOM-RESP)

Date Received: 18-NOV-2022 09:50

11-18-2022

9630

Login Checklist

Login Preservation Equipment

Lot # & Exp: Date

Additional Comments:

Infrared Thermometer ID:	IR TEMP GUN #4 Exp:10/17/2023
pH Test Strips 0 – 6	LOT# 223819AV Exp: AUG 30, 2023
pH Paper 0 – 3	N/A
pH Paper 0 – 13	LOT# 207621 Exp: March 15, 2024
Chlorine Test Strips	LOT# 0070 Exp: Feb. 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# _____

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly "X" this box if there are qualified data on this page.

Meter ID: Syl+c RQ: 2072-11-14-57 Project: Algae Response LL

- Notes: (1) Always wait for meter to stabilize before recording any readings.
 (2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 11/14/22

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro- meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	<u>Brian Davis</u>	<u>11/17/22</u>	<u>757</u>	<u>21.3</u>	<u>767.8</u>	<u>8.9</u>	<u>8.9</u>	<u>101.0</u>	<u>✓</u>	<u>1.07</u>	<u>Ⓟ</u> F	<u>Ⓚ</u> F
ICV			<u>800</u>	<u>21.5</u>	<u>767.8</u>	<u>8.9</u>	<u>8.92</u>	<u>101.0</u>	<u>✓</u>	<u>1.07</u>	<u>Ⓟ</u> F	<u>Ⓚ</u> F
CCV	<u>Kathryn Winger</u>		<u>1711</u>	<u>20.4</u>	<u>766.7</u>	<u>9.1</u>	<u>9.15</u>	<u>101.4</u>	<u>-</u>	<u>1.07</u>	<u>Ⓟ</u> F	<u>Ⓚ</u> F
CCV											P / F	L / F

DO Acceptance criteria from Table ± 0.3 mg/L. Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.
 Optical: DO gain range 0.85 to 1.15 (Pro DSS 0.75 to 1.50); DO charge N/A. Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	<u>Brian Davis</u>	<u>11/17/22</u>	<u>735</u>	<u>220719A</u>	<u>7/23</u>	<u>1000</u>	<u>1000</u>	<u>Ⓟ</u> F	<u>Ⓚ</u> F
ICV			<u>738</u>	<u>210917A</u>	<u>3/23</u>	<u>100</u>	<u>100.8</u>	<u>Ⓟ</u> F	<u>Ⓚ</u> F
CCV	<u>KWinger</u>		<u>1713</u>	<u>220719A</u>	<u>7/23</u>	<u>1000</u>	<u>1004</u>	<u>Ⓟ</u> F	<u>Ⓚ</u> F
CCV								P / F	L / F

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	<u>Brian Davis</u>	<u>11/17/22</u>	<u>744</u>	<u>M118-15</u>	<u>5/24</u>	<u>7.01</u>	<u>21.7</u>	<u>7.01</u>	<u>-12.9</u>	P / F	<u>Ⓚ</u> F
Calibr.			<u>747</u>	<u>L344-18</u>	<u>12/23</u>	<u>4.00</u>	<u>21.4</u>	<u>4.00</u>	<u>142.7</u>	<u>Ⓟ</u> F	<u>Ⓚ</u> F
Calibr.			<u>750</u>	<u>M103-01</u>	<u>4/24</u>	<u>10.03</u>	<u>21.7</u>	<u>10.03</u>	<u>-206.4</u>	<u>Ⓟ</u> F	<u>Ⓚ</u> F
ICV			<u>753</u>	<u>M118-15</u>	<u>5/24</u>	<u>7.01</u>	<u>21.8</u>	<u>7.02</u>	<u>-32.0</u>	<u>Ⓟ</u> F	<u>Ⓚ</u> F
CCV	<u>KWinger</u>		<u>1716</u>	<u>L344-18</u>	<u>12/23</u>	<u>4.00</u>	<u>21.8</u>	<u>4.07</u>	<u>139.1</u>	<u>Ⓟ</u> F	<u>Ⓚ</u> F
CCV			<u>1718</u>	<u>M103-01</u>	<u>4/24</u>	<u>10.03</u>	<u>21.8</u>	<u>10.04</u>	<u>-206.4</u>	<u>Ⓟ</u> F	<u>Ⓚ</u> F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ; mV pH 4 Range $+180 \pm 50$; mV pH 10 Range -180 ± 50 ;
 If mV are recorded: slope from 7 to 10 175.1, slope from 4 to 7 175.6 (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: 11/14/22

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: _____; Date of last verification: _____

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value, meters	Pass / Fail	Lab / Field
Pressure mode in air	<u>Brian Davis</u>	<u>11/17/22</u>	<u>759</u>	<u>0.00</u>	<u>0.001</u>	<u>Ⓟ</u> F	<u>Ⓚ</u> F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:



Cyanobacteria Bloom Response Field Data Sheet (2022-08-15 v1)

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

RQ - 2022-11-14-57		Collected By:		Katrin Villinger , Brian Davis						
Customer:	WQMP	Field Report Prepared By:		Katrin Villinger						
Project ID:	BLOOM_RESP	Sampling Agency:		NEROC						
Location: Lochloosa Lake @ Park			Comments:							
Field ID: NEHAB0082			Coordinates: 29.50545, -82.10325							
WIN Secondary Resource Type: Lake			Collection Equip: WaterBottle							
WIN ID:			High Tide Time:		Low Tide Time:					
Matrix:	Fresh	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)
11/17/2022	14:50	125	11.27	19.5	9.25	0.3	1.991	0.5	98.5	0.05
	14:54	89.1	8.3	18.9	7.27	1.4			99.5	0.05
Bloom Observations										
Algal Bloom Observed? ☒ Yes ☐ No										
Water Clarity	☐ Clear	☒ Slightly Turbid	☐ Turbid	☐ Opaque						
Bloom Color	☒ Green	☐ Red	☐ Brown	☐ Other:						
Algae Type	☒ Planktonic	☐ Filamentous	☐ Other:							
Algae Accumulation	☐ Mat	☒ Specks	☐ Scum	☐ Glob						
Algae Distribution	☐ Surface-Entire	☐ Surf-Localized	☐ Surf-Windblown	☒ Suspended	☐ Benthic	☐ Epiphytic				
Parameter Suite	Parameter Methods		Preservation		pH Check	#Bottles Sent to Lab	Bottle Group			
Algal ID (PT-50mL)	☐ ALGAL-ID		☐ Ice							
Bloom ID (PT-50mL)	☒ BLOOM-ID		☒ Ice			1	A			
Chlorophyll (BP-1L)	☒ CHLSUITE-W		☒ Ice			1	C			
Toxins (P-125/BG-250)	☒ W-MCYST-AA ☒ W-SAXTN-MS ☐ OV-TOXN		☒ Ice			1	C			
Preserved Nutrients (500mL HDPE)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP		☒ Ice ☒ H2SO4		☒ <2	1	C			
	SA2229010		8/30/23							
	Acid Lot:		Exp:							
Filtered Nutrients (P125mL)	☒ W-P04-F		☒ Field Filtered 0.45µm Filter		☒ Ice	1	C			
	Filter Lot # 175533									
Quantitative Algae	☐ DTY-QN-C / PKD-QN-C		☐ Ice ☐ Lugols							
Relinquished By:	Date/Time	Number of Coolers Shipped		Received By:	Date/Time					
Katrin Villinger	11/17/2022 16:30	2		<i>K</i>	11-18-2022 9:50					



Cyanobacteria Bloom Response Field Data Sheet (2022-08-15 v1)

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

RQ - 2022-11-14-57		Collected By:		Katrin Villinger, Brian Davis						
Customer:	WQMP	Field Report Prepared By:		Katrin Villinger						
Project ID:	BLOOM_RESP	Sampling Agency:		NEROC						
Location: Samson River @ SW CR 225			Comments:							
Field ID: NEHAB0088			Coordinates: 29.91901, -82.21036							
WIN Secondary Resource Type: River/Stream			Collection Equip: WaterBottle							
WIN ID:			High Tide Time:		Low Tide Time:					
Matrix:	Fresh	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)
11/17/2022	10:15	71	6.85	17.1	6.37	0.3	0.98	0.98	94.4	0.04
Bloom Observations										
Algal Bloom Observed? ☐ Yes ☒ No										
Water Clarity ☐ Clear ☒ Slightly Turbid ☐ Turbid ☐ Opaque Bloom Color ☐ Green ☐ Red ☐ Brown ☐ Other: Algae Type ☐ Planktonic ☐ Filamentous ☐ Other: Algae Accumulation ☐ Mat ☐ Specks ☐ Scum ☐ Glob Algae Distribution ☐ Surface-Entire ☐ Surf-Localized ☐ Surf-Windblown ☐ Suspended ☐ Benthic ☐ Epiphytic										
Parameter Suite		Parameter Methods				Preservation		pH Check	#Bottles Sent to Lab	Bottle Group
Algal ID (PT-50mL)		☐ ALGAL-ID				☐ Ice				
Bloom ID (PT-50mL)		☒ BLOOM-ID				☒ Ice			1	A
Chlorophyll (BP-1L)		☒ CHLSUITE-W				☒ Ice			1	C
Toxins (P-125/BG-250)		☒ W-MCYST-AA ☒ W-SAXTN-MS ☐ OV-TOXN ☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP				☒ Ice ☒ H2SO4		☒ <2	1	C
Preserved Nutrients (500mL HDPE)		SA2229010				8/3/23				
		Acid Lot:		Exp:						
Filtered Nutrients (P125mL)		☒ W-PO4-F		☒ Field Filtered 0.45µm Filter		☒ Ice			1	C
				Filter Lot # 175533						
Quantitative Algae		☐ DTY-QN-C / PKD-QN-C				☐ Ice ☐ Lugols				
Relinquished By:		Date/Time		Number of Coolers Shipped		Received By:		Date/Time		
Katrin Villinger		11/17/2022 16:30		2		 11-18-2022 9:50				



Cyanobacteria Bloom Response Field Data Sheet (2022-08-15 v1)

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RQ - 2022-11-14-57		Collected By:		Katrin Villinger, Brian Davis							
Customer:	WQMP	Field Report Prepared By:		Katrin Villinger							
Project ID:	BLOOM_RESP	Sampling Agency:		NEROC							
Location: Lochloosa Lake NE in Veg			Comments:								
Field ID: NEHAB0083			Coordinates: 29.54463, -82.12257								
WIN Secondary Resource Type: Lake			Collection Equip: WaterBottle								
WIN ID:			High Tide Time:		Low Tide Time:						
Matrix:	Fresh	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)	
11/17/2022	12:50	102	9.34	19.7	7.54	0.3	2.034	0.6	98.7	0.05	
	12:53	3.2	0.28	21.2	6.3	1.5			159.7	0.7	
Bloom Observations											
Algal Bloom Observed? ☒ Yes ☐ No											
Water Clarity ☐ Clear ☒ Slightly Turbid ☐ Turbid ☐ Opaque											
Bloom Color ☒ Green ☐ Red ☐ Brown ☐ Other:											
Algae Type ☒ Planktonic ☐ Filamentous ☐ Other:											
Algae Accumulation ☐ Mat ☒ Specks ☐ Scum ☐ Glob											
Algae Distribution ☐ Surface-Entire ☐ Surf-Localized ☐ Surf-Windblown ☒ Suspended ☐ Benthic ☐ Epiphytic											
Parameter Suite	Parameter Methods			Preservation		pH Check	#Bottles Sent to Lab	Bottle Group			
Algal ID (PT-50mL)	☐ ALGAL-ID			☐ Ice							
Bloom ID (PT-50mL)	☒ BLOOM-ID			☒ Ice			1	A			
Chlorophyll (BP-1L)	☒ CHLSUITE-W			☒ Ice			1	C			
Toxins (P-125/BG-250)	☒ W-MCYST-AA ☒ W-SAXTN-MS ☒ OV-TOXN			☒ Ice			1	C			
Preserved Nutrients (500mL HDPE)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP			☒ Ice ☒ H2SO4		☒ <2	1	C			
	SA2229010			8/30/23							
Filtered Nutrients (P125mL)	☒ W-PO4-F			☒ Field Filtered 0.45µm Filter		☒ Ice	1	C			
	Filter Lot # 175533										
Quantitative Algae	☐ DTY-QN-C / PKD-QN-C			☐ Ice ☐ Lugols							
Relinquished By:	Date/Time	Number of Coolers Shipped		Received By:		Date/Time					
Katrin Villinger	11/17/2022 16:00	2				11-18-2022 9:50					



Cyanobacteria Bloom Response Field Data Sheet (2022-08-15 v1)

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RQ - 2022-11-14-57		Collected By:		Katrin Villinger, Brian Davis						
Customer:	WQMP	Field Report Prepared By:		Katrin Villinger						
Project ID:	BLOOM_RESP	Sampling Agency:		NEROC						
Location: Lochloosa Lake entrance to Cross Creek			Comments:							
Field ID: NEHAB0079			Coordinates: 29.50739, -82.14983							
WIN Secondary Resource Type: Lake			Collection Equip: WaterBottle							
WIN ID:			High Tide Time:		Low Tide Time:					
Matrix:	Fresh	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)
11/17/2022	13:40	98.3	8.97	19.8	7.46	0.3	2.088	0.55	98	0.05
	13:44	92.1	8.42	19.6	7.26	1.5			98.1	0.05
Bloom Observations										
Algal Bloom Observed? ☒ Yes ☐ No										
Water Clarity		☐ Clear	☒ Slightly Turbid	☐ Turbid	☐ Opaque					
Bloom Color		☒ Green	☐ Red	☐ Brown	☐ Other:					
Algae Type		☒ Planktonic	☐ Filamentous	☐ Other:						
Algae Accumulation		☐ Mat	☒ Specks	☐ Scum	☐ Glob					
Algae Distribution		☐ Surface-Entire	☐ Surf-Localized	☐ Surf-Windblown	☒ Suspended	☐ Benthic	☐ Epiphytic			
Parameter Suite	Parameter Methods			Preservation		pH Check	#Bottles Sent to Lab	Bottle Group		
Algal ID (PT-50mL)	☐ ALGAL-ID			☐ Ice						
Bloom ID (PT-50mL)	☒ BLOOM-ID			☒ Ice			1		A	
Chlorophyll (BP-1L)	☒ CHLSUITE-W			☒ Ice			1		C	
Toxins (P-125/BG-250)	☒ W-MCYST-AA ☒ W-SAXTN-MS ☐ OV-TOXN			☒ Ice			1		C	
Preserved Nutrients (500mL HDPE)	W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP			☒ Ice ☒ H2SO4		☒ <2	1		C	
	SA2229010			8/30/22						
Filtered Nutrients (P125mL)	Acid Lot:			Exp:						
	☒ W-PO4-F			☒ Field Filtered 0.45um Filter		☒ Ice		1		C
Quantitative Algae	☐ DTY-QN-C / PKD-QN-C			☐ Ice		☐ Lugols				
	Filter Lot # 175533									
Relinquished By:	Date/Time	Number of Coolers Shipped			Received By:	Date/Time				
Katrin Villinger	11/17/2022 16:30	2			<i>RV</i>	11-18-2022 9:50				



Cyanobacteria Bloom Response Field Data Sheet (2022-08-15 v1)

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RQ - 2022-11-14-57		Collected By:		Katrin Villinger , Brian Davis						
Customer:	WQMP	Field Report Prepared By:		Katrin Villinger						
Project ID:	BLOOM_RESP	Sampling Agency:		NEROC						
Location: 183rd ave Canal off Cross Creek			Comments:							
Field ID: NEHAB0076			Coordinates: 29.48502, -82.16339							
WIN Secondary Resource Type: Canal			Collection Equip: WaterBottle							
WIN ID:			High Tide Time:		Low Tide Time:					
Matrix:	Fresh	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)
11/17/2022	14:10	4.9	0.47	17.6	6.36	0.25	0.556	0.5	166.9	0.08
Bloom Observations										
Algal Bloom Observed? ☐ Yes ☒ No										
Water Clarity	☐ Clear ☒ Slightly Turbid ☐ Turbid ☐ Opaque ☐ Green ☐ Red ☐ Brown ☐ Other:									
Bloom Color	☐ Planktonic ☐ Filamentous ☐ Other:									
Algae Type	☐ Mat ☐ Specks ☐ Scum ☐ Glob									
Algae Accumulation	☐ Surface-Entire ☐ Surf-Localized ☐ Surf-Windblown ☐ Suspended ☐ Benthic ☐ Epiphytic									
Algae Distribution										
Parameter Suite	Parameter Methods				Preservation	pH Check	#Bottles Sent to Lab	Bottle Group		
Algal ID (PT-50mL)	☐ ALGAL-ID				☐ Ice					
Bloom ID (PT-50mL)	☒ BLOOM-ID				☒ Ice		1		A	
Chlorophyll (BP-1L)	☒ CHLSUITE-W				☒ Ice		1		C	
Toxins (P-125/BG-250)	☒ W-MCYST-AA ☒ W-SAXTN-MS ☐ OV-TOXN				☒ Ice		1		C	
Preserved Nutrients (500mL HDPE)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP SA2229010				☒ Ice	☒ H2SO4	☒ <2	1	C	
	Acid Lot:		Exp:							
Filtered Nutrients (P125mL)	☒ W-PO4-F		☒ Field Filtered 0.45um Filter		☒ Ice		1		C	
			Filter Lot # 175533							
Quantitative Algae	☐ DTY-QN-C / PKD-QN-C				☐ Ice	☐ Lugols				
Relinquished By:	Date/Time		Number of Coolers Shipped		Received By:		Date/Time			
Katrin Villinger	11/17/2022 16:30		2				11-18-2022 9:50			

Date of Request: 03-NOV-2022
 Created By: DAVIS_B On: 03-NOV-2022
 Modified By: JASROTIA_P On: 08-NOV-2022
 Customer: WQAP
 Project: BLOOM-RESP
 Division: Division of Environmental Assessment and Restoration
 District:
 Event Description: Algae Bloom Response NEROC-as needed

Send Coolers To:

Phone: 904-256-1568
 8800 Baymeadows Way W
 Suite 100
 Jacksonville, FL 32256
 Attn: Brian G Davis
 Cooler Ship EMail: Brian.g.davis@floridadep.gov

Priority: 1
 Event Status: S
 Criminal Investigation: NO
 Chemistry Request Reviewed By: AYRES_J On: 08-NOV-2022
 Biology Request Reviewed By: JASROTIA_P On: 08-NOV-2022
 Sampling Kit Required: YES Ship on: 11-NOV-2022
 Sampling Kit Shipped: YES On: 08-NOV-2022
 Sampling Kit Packed By: PENDLETO_C
 Preservatives Needed: YES
 Date to Receive Samples: 14-NOV-2022
 Logged In By:

Send Final Report To:

8800 Baymeadows Way W
 Suite 100
 Tallahassee, FL 32399-2400
 Attn: Brian G Davis
 Report Notification EMail: Brian.g.davis@floridadep.gov

Comments: -Do not send bottles in coolers. Can be shipped in Cardboard Boxes-

Bottle Group A - Priority 1
 For Bloom ID dominant taxon.

Bottle Group B - Priority 1
 For toxin testing Nutrients, Chlorophyll, Toxin. (NO SAX)

Bottle Group C - Priority 1
 For toxin testing Nutrients, Chlorophyll, Toxin w/ SAX.

Bottle Group D - Priority 1
 Field Blank for QC on Nutrients and Toxin.

 Include 3 boxes of Sulfuric Acid, 2 boxes of Nitric Acid.

Bottle Group A (Biological) With 12 Samples:

Bottle Type: PT-50ML Number of Bottles: 12 Preserved With: ICE
 BLOOM-ID Template: DEFAULT (SOP-AB18) Assessment of dominant algal taxa in bloom or mat sample

Bottle Group B (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, and phaeophytin by spectrophotometry

Bottle Type: P-125ML Number of Bottles: 6 Preserved With: ICE
 W-MCYST-AA Template: DEFAULT (EPA 8321B) Microcystins in water matrices by HPLC/MS/MS
 W-SAXTN-MS Template: DEFAULT (EPA 8321B) Saxitoxin in water matrices by HPLC/MS/MS

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

Bottle Type: P-125ML Number of Bottles: 6 Preserved With: FILTER-ICE

Bottle Group B (Water) With 6 Samples:

Bottle Type: P-125ML	Number of Bottles: 6	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 Type: P-250ML	Number of Bottles: 6	Preserved With: ICE
W-SI-ICP	Template: DEFAULT	(EPA 200.7 Rev. 4.4) Silica, dissolved, lab filtered, aqueous matrices as mg SiO2/L.
Silica		

Bottle Group C (Water) With 6 Samples:

Bottle Type: P-125ML	Number of Bottles: 6	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 Type: BP-1L	Number of Bottles: 6	Preserved With: ICE
CHLSUITE-W	Template: DEFAULT	(SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry
Bottle Type: P-125ML	Number of Bottles: 6	Preserved With: ICE
W-MCYST-AA	Template: DEFAULT	(EPA 8321B) Microcystins in water matrices by HPLC/MS/MS
W-SAXTN-MS	Template: DEFAULT	(EPA 8321B) Saxitoxin in water matrices by HPLC/MS/MS
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

Bottle Group D (Water) With 1 Samples:

Bottle Type: P-125ML	Number of Bottles: 1	Preserved With: ICE
W-MCYST-AA	Template: DEFAULT	(EPA 8321B) Microcystins in water matrices by HPLC/MS/MS
W-SAXTN-MS	Template: DEFAULT	(EPA 8321B) Saxitoxin 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
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

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