



Cyanobacteria Bloom Response Field Data Sheet (2023-06-12 v1)

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

RQ - 2023-07-24-49				Collected By:		Katrin Villinger					
Customer:		NE-DIST		Field Report Prepared By:		KVILLINGER					
Project ID:		BLOOM_RESP		Sampling Agency:		NEROC					
Location: Georges Lake - Boat Ramp				Comments: BLANK - 4 bottles, Group D- (W-MCYST-AA, W-SAXTN-MS, W-COLOR, W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP, W-PO4-F) acid lot and filter lot are same as listed below. All were placed on ice w/i 15 min of sample. PH <2.							
Blank: Field Blank- Georges Lake - Boat Ramp											
Field ID: NEHAB0099 BLANK ID: FB_08072023				Coordinates:		29.80221, -81.84552					
WIN Secondary Resource Type: Lake				Collection Equip:		WaterBottle					
WIN ID: NEHAB0099				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)	
08/07/2023	11:15	78.4	5.83	31.1	5.96	0.3	0.756	0.756	55.4	0.02	
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	
Algae (PT-50mL)		☐ ALGAL-ID ☒ BLOOM-ID				☒ Ice			1	A	
Chlorophyll (BP-1L)		☒ CHLSUITE-W				☒ Ice			1	B	
Toxins (P-125/BG-250)		☒ W-MCYST-AA ☐ W-SAXTN-MS ☐ OV-TOXN				☒ Ice			1	B	
Physical/Aggregate		☒ W-COLOR				☒ Ice			1	B	
Preserved Nutrients (500mL HDPE)		☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP				☒ Ice ☒ H2SO4		☒ <2	1	B	
		SA3013020		Exp:		1/25/24					
Filtered Nutrients (P125mL)		☒ W-PO4-F		☒ Field Filtered 0.45um Filter		☒ Ice			1	B	
		Filter Lot #		R1EB01329							
Quantitative Algae		☐ DTY-QN-C / PKD-QN-C				☐ Ice ☐ Lugols					
Relinquished By:		Date/Time		Number of Coolers Shipped		Received By:		Date/Time			
KVILLINGER		08/07/2023 16:30		1							



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Customer:	NE-DIST	Field Report Prepared By:		KVILLINGER						
Project ID:	BLOOM_RESP	Sampling Agency:		NEROC						
Location: Georges Lake - Boat Ramp			Comments: 08/07/2023 11:05 ET DISource:NEROC lab DILocation: NEROC Lab Container ID/Type: Carboy / CarNB							
Field ID: FB_08072023			Coordinates:							
WIN Secondary Resource Type:			Collection Equip:							
WIN ID:			High Tide Time:		Low Tide Time:					
Matrix:	Field Blank	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)
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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	
Algae (PT-50mL)		☐ ALGAL-ID ☐ BLOOM-ID			☐ Ice					
Chlorophyll (BP-1L)		☐ CHLSUITE-W			☐ Ice					
Toxins (P-125/BG-250)		☒ W-MCYST-AA ☐ W-SAXTN-MS ☐ OV-TOXN			☒ Ice			1	D	
Physical/Aggregate		☒ W-COLOR			☒ Ice			1	D	
Preserved Nutrients (500mL HDPE)		☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP SA3013020 Acid Lot:			☒ Ice ☒ H2SO4 1/25/24 Exp:		☐ <2	1	D	
Filtered Nutrients (P125mL)		☒ W-PO4-F Field Filtered 0.45um Filter Filter Lot # R1EB01329			☒ Ice			1	D	
Quantitative Algae		☐ DTY-QN-C / PKD-QN-C			☐ Ice ☐ Lugols					
Relinquished By:		Date/Time		Number of Coolers Shipped		Received By:		Date/Time		
KVILLINGER		08/07/2023 16:30		1						

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: Stitch

RQ: 7023-07-24-49

Project: Alachua RSD General

2023

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 5/23/23

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.	Kullinges	8/2/23	831	19.5	763	9.2	-	100.4	-	1.067	(P) F	(L) F
ICV		↓	833	19.4	763	9.2	9.25	100.4	-	1.067	(P) F	(L) F
CCV		↓	1316	20.5	762	9.0	9.18	101.0	-	1.065	(P) F	(L) 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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Kullinges	8/7/23	835	230131B	2/24	1000	1000	(P) F	(L) F
ICV		↓	837	230131A	2/24	100	99.5	(P) F	(L) F
CCV		↓	1316	230131A	2/24	100	99.6	(P) F	(L) 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.	Kullinges	8/7/23	839	M241-15	9/1/24	7.02	19.5	7.02	-53.8	(P) F	(L) F
Calibr.		↓	841	M221-22	8/10/24	4.00	19.4	4.00	121.3	(P) F	(L) F
Calibr.		↓	842	M203-05	7/27/24	10.06	19.3	10.06	-220.2	(P) F	(L) F
ICV		↓	845	M221-22	8/10/24	4.00	19.4	3.95	122.9	(P) F	(L) F
CCV		↓	1320	M241-15	9/1/24	7.02	19.6	7.00	-49.4	(P) F	(L) F
CCV										P / F	L / 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 10 166.4, slope from 4 to 7 175.1 (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: 5/30/23

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	Kullinges	8/7/23	845	0.000	6.00	(P) F	(L) F

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

COMMENTS: