

Cyanobacteria Bloom Response Field Data Sheet

2021 RQ-2019-06-14-18		Collected By: B.D. & McDonald	
Customer: NEROC		Field Report Prepared By: B.D.	
Project ID: BLOOM_RESP		Sampling Agency: FDEP	
Field ID:		Comments:	

WIN ID/Field ID: 

NEHAB0022

Sampson River

Collection Equipment: O-rho #3

Coordinates: 29.921462, -82.205539

Matrix: SW	Grab	High Tide Time: -	Low Tide Time: -
Tide: ☐ Rising ☐ Falling ☐ Slack ☒ N/A			

Water Quality										
Date	Time ☐ EST ☐ CEN	D.O. (mg/L)	D.O. (%)	Temp °C	pH (SU)	Sample Depth (m)	Cond. (umho/cm)	Salinity (PPT)	Secchi Disk (m)	Total Depth (m)
6/24	1050	2.76	BD	26.1	6.61	0.3	138.1	0.06	VOB	0.8
		33.0							(S)	BD

Bloom Observations					
Algal Bloom Observed? ☒ Yes ☐ No					
Water Surface	☐ Clear	☒ Scum	☐ Glob	☐ Slick	
Water Clarity	☐ Clear	☒ Slightly Turbid	☐ Turbid	☐ Opaque	
Bloom Color	☒ Green	☐ Red	☒ Brown	☐ Other: _____	
Algae Distribution	☐ Suspended in water column		☒ On surface	☐ Other: _____	
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
	Lot SA1105060	Exp: 4/30/22	☐ <2		
Filtered Nutrients (P125mL)	☒ W-PO4-F ☐ Field Filtered 0.45um Filter	☐ Ice		1	B
Quantitative Algae	☐ DTY-QN-C / PKD-QN-C	☐ Ice ☐ Lugols			
Relinquished By: B.D.	Date/Time: 6/24/21 1600	Number of Coolers Shipped: 1	Received By:	Date/Time:	

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:

54176

RQ:

2021-06-14-18

Project:

Algae Response

- 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 5/17/21

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.	Brian Davis	6/24/21	727	19.0	764.7	9.3	9.3	100.6	✓	1.02	P/F	L/F
ICV			740	19.4	764.7	9.3	9.24	100.6	✓	1.02	P/F	L/F
CCV			1543	20.4	765.1	9.1	9.06	100.5	✓	1.02	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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Brian Davis	6/24/21	722	210426B	5/22	1000	1000	P/F	L/F
ICV			724	210426A	5/22	100	101.9	P/F	L/F
CCV			1544	210426B	5/22	1000	998	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.	Brian Davis	6/24/21	728	2012E39	12/22	7.02	20.1	7.02	-23.5	P/F	L/F
Calibr.			732	2103659	3/23	4.00	20.0	4.00	152.0	P/F	L/F
Calibr.			736	2103653	9/22	10.05	19.6	10.06	-196.2	P/F	L/F
ICV			739	2012E39	12/22	7.02	20.0	7.04	-23.3	P/F	L/F
CCV			1546	2103659	3/23	4.00	20.1	4.03	150.0	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 10 172.7, slope from 4 to 7 175.5 (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: 5/17/21

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: ; Date of last verification: 5/17/21

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	Brian Davis	6/24/21	742	0.00	0.00	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: