

Cyanobacteria Bloom Response Field Data Sheet

RQ-2019- 2021-05-17-37	Collected By: J. Parrish K. McDonald
Customer 21FLA	Field Report Prepared By: K. McDonald
Project ID: BLOOM_RESP	Sampling Agency: FDEP

WIN ID/Field ID:



NEHAB0020

Rodman Reservoir at Buckman Lock

Comments:

• green water • Filter lot # R0NB35407
• fish present
• staff say bloom peaked late last week

Collection **Van Dorn - He-man**

Equipment: **Ortho Kit #44**

Matrix:

Fresh

Grab

Coordinates:

29.5458157, -81.7287430

Tide:

☐ Rising ☐ Falling ☐ Slack ☒ N/A

High Tide Time:

Low Tide Time:

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)
6/15	1220	9.33	122.3	29.4 24.9	8.71 km	0.3	456.6	0.22	0.65	3.614
	1222	8.95	117.0	29.3	8.68	3.1	457.2	0.22		

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: _____
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 SA0353110	Exp: 1/11/22	☐ <2 km		
Filtered Nutrients (P125mL)	☒ W-PO4-F ☒ Field Filtered 0.45um Filter	☒ Ice		1	B
Quantitative Algae	☒ DTY-QN-C / PKD-QN-C	☒ Ice ☐ Lugols		1	B
Relinquished By:	Date/Time	Number of Coolers Shipped	Received By:	Date/Time	
K. McDonald	6/15/21 1600	1			

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Algal Bloom Response- NEROC

last revised Jan 25, 2018

Customer: WQAP

Requester: Jeremy M. Parrish

Field Report Prepared By: K. McDonald

Project ID: BLOOM-RESP

Collected By: J. Parrish + K. McDonald

Sampling Agency: FDEP NEROC

Location		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 6/15/21 Time 1220		Eastern Central	Composite end Date — Time —		Bottle Group(s) (See pg 2)
Field ID WIN ID/Field ID:  NEHAB0020		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 9.33	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) —		A+B
WIN Rodman Reservoir at Buckman Lock		Temp (C) 29.4	pH 8.71	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 456.6		
Latitude ☐ dd ☐ dms		Salinity (ppt) 0.22	Comments					
Location		☐ Comp ☐ Grab	Collection (comp begin or grab) Date — Time —		Eastern Central	Composite end Date — Time —		Bottle Group(s)
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		
WIN/STORET #		Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)		
Latitude ☐ dd ☐ dms		Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments				
Location		☐ Comp ☐ Grab	Collection (comp begin or grab) Date — Time —		Eastern Central	Composite end Date — Time —		Bottle Group(s)
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		
WIN/STORET #		Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)		
Latitude ☐ dd ☐ dms		Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments				
Location		☐ Comp ☐ Grab	Collection (comp begin or grab) Date — Time —		Eastern Central	Composite end Date — Time —		Bottle Group(s)
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		
WIN/STORET #		Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)		
Latitude ☐ dd ☐ dms		Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments				

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
K. McDonald	6/15/21 1600	FedEx	1		

Group: A	Bottle Type:	PT-50ML	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	BLOOM-ID						
Group: B	Bottle Type:	BP-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	CHLSUITE-W						
Group: B	Bottle Type:	BP-1L	# of Bottles: 4	Preservative:	Lugols	Enter Number of Bottles Sent to Lab	1
	DTY-QN-C						
	PKD-QN-C						
Group: B	Bottle Type:	BG-250ML-WDMT H	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	W-MCYST-AA						
Group: B	Bottle Type:	P-500ML	# of Bottles: 4	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	1
	W-NH3						
	W-NO2NO3						
	W-S-A-TP						
	W-TKN						
Group: B	Bottle Type:	P-125ML	# of Bottles: 4	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	1
	W-PO4-F						

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:

YSI 5100

RQ:

2021-06-14-08

Project:

SMP Palatka

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 5/12/21

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.	J. Pansh	6/15/21	727	18.9	759.4	9.3	9.3	100.4	—	1.028	P/F	L/F
ICV	J	6/15/21	729	19.0	759.3	9.3	9.28	100.0	—	1.028	P/F	L/F
CCV	J. Pansh	6/15/21	1502	21.5	758.2	8.8	8.98	101.9	—	—	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.	J. Pansh	6/15/21	730	201222B	1/22	1000	1000	P/F	L/F
ICV	J	6/15/21	731	201222A	1/22	10.0	98.7	P/F	L/F
CCV	J. Pansh	6/15/21	1504	2104260	5/22	20000	19935	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.	J. Pansh	6/15/21	732	2012E34	12/22	7.	19.8	7.02	-225	P/F	L/F
Calibr.	J	6/15/21	735	2103059	8/23	4.	19.8	4.00	149.2	P/F	L/F
Calibr.	J	6/15/21	736	2103FC3	9/22	10.	19.7	10.00	-200.3	P/F	L/F
ICV	J	6/15/21	744	2103059	3/23	4.	19.8	4.00	149.2	P/F	L/F
CCV	J. Pansh	6/15/21	1507	2103F53	9/22	10.	20.7	10.01	-201.5	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 _____, slope from 4 to 7 _____ (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: _____

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	J. Pansh	6/15/21	745	0.00	0.02	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: