

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: Desi

RQ: 2024-03-04-72

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 4/1/24

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.	H. Brown	7/1/24	826	23.3	759.6	8.5	—	99.9	—	1.010	P/F	L/F
ICV	H. Brown	7/1/24	827	23.3	759.7	8.5	8.54	100	—	1.010	P/F	L/F
CCV	K. Halbert	7/1/24	1432	23.3	758.5	8.5	8.51	99.8	—	1.010	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.	H. Brown	7/1/24	828	240208B	02/2025	1000	1000	P/F	L/F
ICV	H. Brown	7/1/24	830	230612A	06/2024	100	100.6	P/F	L/F
CCV	K. Halbert	7/1/24	1433	23110	1/2024	15000	15142	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.	H. Brown	7/1/24	832	43080549	9/7/25	7.00	23.8	7.00	-30.5	P/F	L/F
Calibr.	H. Brown	7/1/24	834	44020143	2/24/26	4.00	23.8	4.00	142.2	P/F	L/F
Calibr.	H. Brown	7/1/24	838	44020286	2/27/26	10.01	23.7	10.01	-201.3	P/F	L/F
ICV	H. Brown	7/1/24	843	44020143	2/24/26	4.00	23.8	3.99	143.2	P/F	L/F
CCV	K. Halbert	7/1/24	1436	44020286	2/27/26	10.02	23.3	10.02	-203.4	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 10 171.3, slope from 4 to 7 172.7 (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: 4/1/24

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	H. Brown	7/1/24	845	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:



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

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

RQ - 2024-03-04-72				Collected By:		Katrin Villinger, Haylee Brown, Katherine Halbert						
Customer:		NE-DIST		Field Report Prepared By:		HAYLEE BROWN						
Project ID:		BLOOM_RESP		Sampling Agency:		NEROC						
Location: Doctors Lake - Wyndegate Dr				Comments:								
Field ID: NEHAB0117				Coordinates:		30.15473, -81.71630						
WIN Secondary Resource Type: Lake				Collection Equip:		WaterBottle						
WIN ID: NEHAB0117				High Tide Time:		08:48		Low Tide Time:		15:37		
Matrix:		Marine		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)		
07/01/2024	11:10	109.2	7.77	30.6	7.94	0.3	1.57	0.8	14193	8.15		
	11:11	90.3	6.61	30.1	7.67	1.07				14125	8.12	
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	C		
Toxins (P-125/BG-250)		☒ W-MCYST-AA ☒ W-SAXTN-MS ☐ OV-TOXN				☒ Ice			1	B		
Physical/Aggregate		☒ W-COLOR				☒ Ice			1	C		
Preserved Nutrients (500mL HDPE)		☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP				☒ Ice ☒ H2SO4		☒ <2	1	C		
		Acid Lot:		SA3340020		Exp:		12/11/2024				
Filtered Nutrients (P125mL)		☒ W-PO4-F		☒ Field Filtered 0.45um Filter		☒ Ice			1	C		
				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				
HAYLEE BROWN		07/01/2024 16:30		1								



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

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RQ - 2024-03-04-72				Collected By:		Haylee Brown, Katrin Villinger, Katherine Halbert					
Customer:		NE-DIST		Field Report Prepared By:		HAYLEE BROWN					
Project ID:		BLOOM_RESP		Sampling Agency:		NEROC					
Location: Doctors Lake - Mill Cove				Comments:							
Field ID: NEHAB0057				Coordinates:		30.12548, -81.72741					
WIN Secondary Resource Type: Lake				Collection Equip:		WaterBottle					
WIN ID: NEHAB0057				High Tide Time:		08:48		Low Tide Time:		15:37	
Matrix:		Marine		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)	
07/01/2024	11:30	126.5	9	30.8	8.4	0.3	2.57	0.6	14353	8.25	
	11:31	57.9	4.25	29.7	7.54	2.07					14331
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	C	
Toxins (P-125/BG-250)		☒ W-MCYST-AA ☒ W-SAXTN-MS ☐ OV-TOXN				☒ Ice			1	B	
Physical/Aggregate		☒ W-COLOR				☒ Ice			1	C	
Preserved Nutrients (500mL HDPE)		☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP				☒ Ice ☒ H2SO4		☒ <2	1	C	
		Acid Lot:		SA3193140		Exp:		07/31/2024			
Filtered Nutrients (P125mL)		☒ W-PO4-F		☒ Field Filtered 0.45um Filter		☒ Ice			1	C	
				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			
HAYLEE BROWN		07/01/2024 16:30		1							