

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: **15077**

RQ: **2024-06-06-50**

Project: **HAB Research**

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

2/8/24 **4/25/24**

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.	NM	4/29/24	0120	23.6	763	8.5	8.5	100.4			P / F	L / F
ICV	↓	↓	0132	↓	↓	↓	8.52	100.4			P / F	L / F
CCV	↓	↓	1340	23.2	763	8.6	8.82	103.3			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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	NM	4/29/24	0135	240110B	1/25	1000	1000	P / F	L / F
ICV	↓	↓	0137	240110A	1/25	100	104	P / F	L / F
CCV	↓	↓	1342	240110B	1/25	1000	1121	P / F	L / F
CCV								P / F	L / F

Conductivity Acceptance criteria ± 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.	NM	4/29/24	0140	236264	12/25	7.	23.4	7.0		P / F	L / F
Calibr.	↓	↓	0142	233100	11/25	4.	↓	4.0		P / F	L / F
Calibr.	↓	↓	0144	1200570	6/24	10.	↓	10.0		P / F	L / F
ICV	↓	↓	0146	233400	11/25	4.0	↓	4.03	186.6	P / F	L / F
CCV	↓	↓	1345	1200570	6/24	10.0	23.1	9.85	172.6	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 ± 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:

2/8/24 **4/25/24**

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	NM	4/29/24	0150	0.00	0.00	P / F	L / F

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

COMMENTS:



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

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

RQ - 2024-05-06-50				Collected By:		Nathan Mulkey, C. Stopher Slade					
Customer:				Field Report Prepared By:		Nathan Mulkey					
Project ID:		BLOOM_RESP		Sampling Agency:		NWROC					
Location: Lullwater Lake NE Lobe				Comments:							
Field ID: NWHAB0017				Coordinates:		30.22191, -85.88015					
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)	
04/29/2024	10:05	164.5	13.68	25.3	8.43	0.3	2.2	0.7	304	0.14	
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 1	A 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					
Preserved Nutrients (500mL HDPE)		☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP				☒ Ice ☒ H2SO4		☐ <2	1	C	
		Acid Lot: 3193140		Exp: 07/31/2024							
Filtered Nutrients (P125mL)		☒ W-PO4-F		☒ Field Filtered 0.45um Filter		☒ Ice			1	C	
		Filter Lot #									
Quantitative Algae		☐ DTY-QN-C / PKD-QN-C				☐ Ice ☐ Lugols					
Relinquished By:		Date/Time		Number of Coolers Shipped			Received By:		Date/Time		
Nathan Mulkey		04/29/2024 13:11		1							