

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 900SI

RQ: 2022-04-11-48

Project: gray mar returned

2022-03-21-15

2 Agree blooms

- 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 2/3/2022

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.	<u>JPansh</u>	<u>5/2/22</u>	<u>850</u>	<u>21.5</u>	<u>763</u>	<u>8.9</u>	<u>8.9</u>	<u>100.5</u>	<u>-</u>	<u>1.02</u>	<u>(P) F</u>	<u>(P) F</u>
ICV	<u>J</u>	<u>5/2/22</u>	<u>851</u>	<u>21.5</u>	<u>763</u>	<u>8.9</u>	<u>8.9</u>	<u>100.5</u>	<u>-</u>	<u>1.02</u>	<u>(P) F</u>	<u>(P) F</u>
CCV	<u>JPansh</u>	<u>5/2/22</u>	<u>1401</u>	<u>23.3</u>	<u>762</u>	<u>8.5</u>	<u>8.6</u>	<u>101.4</u>	<u>-</u>	<u>1.02</u>	<u>(P) F</u>	<u>(P) F</u>
CCV											<u>P / F</u>	<u>L / F</u>

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.	<u>JPansh</u>	<u>5/2/22</u>	<u>853</u>	<u>220225A</u>	<u>3/23</u>	<u>1000</u>	<u>1000</u>	<u>(P) F</u>	<u>(P) F</u>
ICV	<u>J</u>	<u>J</u>	<u>854</u>	<u>21012A</u>	<u>9/22</u>	<u>100</u>	<u>97</u>	<u>(P) F</u>	<u>(P) F</u>
CCV	<u>JPansh</u>	<u>5/2/22</u>	<u>1402</u>	<u>211122B</u>	<u>12/22</u>	<u>1413</u>	<u>1403</u>	<u>(P) F</u>	<u>(P) F</u>
CCV								<u>P / F</u>	<u>L / F</u>

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.	<u>JPansh</u>	<u>5/2/22</u>	<u>855</u>	<u>2112B 19</u>	<u>12/23</u>	<u>7.</u>	<u>21.3</u>	<u>7.02</u>	<u>45.5</u>	<u>(P) F</u>	<u>(P) F</u>
Calibr.	<u>J</u>	<u>J</u>	<u>856</u>	<u>2201088</u>	<u>1/24</u>	<u>4.</u>	<u>21.2</u>	<u>4.00</u>	<u>138</u>	<u>(P) F</u>	<u>(P) F</u>
Calibr.	<u>J</u>	<u>J</u>	<u>857</u>	<u>2202463</u>	<u>7/23</u>	<u>10.</u>	<u>21.4</u>	<u>10.04</u>	<u>-208.5</u>	<u>(P) F</u>	<u>(P) F</u>
ICV	<u>J</u>	<u>J</u>	<u>858</u>	<u>2201088</u>	<u>1/24</u>	<u>4.</u>	<u>21.2</u>	<u>4.02</u>	<u>134.5</u>	<u>(P) F</u>	<u>(P) F</u>
CCV	<u>JPansh</u>	<u>5/2/22</u>	<u>1404</u>	<u>2202463</u>	<u>1/24</u>	<u>10</u>	<u>22.6</u>	<u>10.04</u>	<u>203</u>	<u>(P) F</u>	<u>(P) F</u>
CCV										<u>P / F</u>	<u>L / F</u>

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 10 163, slope from 4 to 7 183.5 (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: _____

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	<u>JPansh</u>	<u>5/2/22</u>	<u>904</u>	<u>0.00</u>	<u>0.00</u>	<u>(P) F</u>	<u>(P) F</u>

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 (2022-04-15 v1)

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

RQ - 2022-04-11-48				Collected By:		Brian davis, Jermy P					
Customer:		21fla		Field Report Prepared By:		JParrish					
Project ID:		BLOOM_RESP		Sampling Agency:		NEROC					
Location: Drs. Lake end of Lawrence Rd				Comments: Wind blowing it slightly or tide pushing it towards shore							
				Add W-SAXTN-MS to RQ for toxin bottle.							
Field ID: NEHAB0073				Coordinates:		30.13643, -81.75016					
WIN Secondary Resource Type: Lake				Collection Equip:		WaterBottle					
WIN ID: NEHAB0073				High Tide Time:		1233		Low Tide Time:		610	
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 (PPT)	
05/02/2022	11:00	96.7	7.86	259	8.1	0.3	0.75	0.6	959	0.47	
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 ID (PT-50mL)		☐ ALGAE-ID				☐ Ice					
Bloom ID (PT-50mL)		☒ BLOOM-ID				☒ Ice			1	A	
Chlorophyll (BP-1L)		☒ CHLSUITE-W				☒ Ice			1	B	
Toxins (BG-WD250)		☒ W-MCYST-AA / W-SAXTN-MS				☒ Ice			1	B	
Preserved Nutrients (500mL HDPE)		☐ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP				☐ Ice ☐ H2SO4		☐ <2			
		Acid Lot:				Exp:					
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	
JParrish		05/02/2022 11:11		1							



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

RQ - 2022-04-11-48				Collected By:			Brian Davis, Jeremy Parrish			
Customer:					Field Report Prepared By:			J Parrish		
Project ID:		BLOOM_RESP			Sampling Agency:			NEROC		
Location: Swimming pen Cr @Whiteys Fish Camp					Comments: No wind bright sunny					
					Add W-SAXTN-MS to RQ for toxin bottle.					
Field ID: Nehab0074					Coordinates:		30.10112, -81.74572			
WIN Secondary Resource Type: River/Stream					Collection Equip:		WaterBottle			
WIN ID: NEHAB0074					High Tide Time:		1233	Low Tide Time:	610	
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 (PPT _h)
05/02/2022	10:15	103	8.34	25.7	7.63	0.3	0.5	0.5	1020	0.5
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 ID (PT-50mL)		☐ ALGAE-ID				☐ Ice				
Bloom ID (PT-50mL)		☒ BLOOM-ID				☒ Ice			1	A
Chlorophyll (BP-1L)		☒ CHLSUITE-W				☒ Ice			1	B
Toxins (BG-WD250)		☒ W-MCYST-AA / W-SAXTN-MS				☒ Ice			1	B
Preserved Nutrients (500mL HDPE)		☐ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP				☐ Ice	☐ H2SO4	☐ <2		
		Acid Lot:				Exp:				
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	
Jeremy Parrish		05/02/2022 10:30		1						