

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:

Vesi

RQ:

2022-06-06-57

Project:

Alg. 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

5/2/22

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>Brian Davis</u>	<u>6/9/22</u>	<u>757</u>	<u>23.0</u>	<u>759.8</u>	<u>8.6</u>	<u>8.59</u>	<u>100.0</u>	<u>✓</u>	<u>1.01</u>	<u>P/F</u>	<u>L/F</u>
ICV			<u>758</u>	<u>23.0</u>	<u>759.9</u>	<u>8.6</u>	<u>8.59</u>	<u>100.1</u>	<u>✓</u>	<u>1.01</u>	<u>P/F</u>	<u>L/F</u>
CCV			<u>1429</u>	<u>23.0</u>	<u>757.7</u>	<u>8.6</u>	<u>8.57</u>	<u>99.9</u>	<u>✓</u>	<u>1.01</u>	<u>P/F</u>	<u>L/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>Brian Davis</u>	<u>6/9/22</u>	<u>727</u>	<u>220225A</u>	<u>3/23</u>	<u>1000</u>	<u>1000</u>	<u>P/F</u>	<u>L/F</u>
ICV			<u>730</u>	<u>211122B</u>	<u>12/22</u>	<u>1413</u>	<u>1391</u>	<u>P/F</u>	<u>L/F</u>
CCV			<u>1431</u>			<u>15,000</u>	<u>15,022</u>	<u>P/F</u>	<u>L/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>Brian Davis</u>	<u>6/9/22</u>	<u>737</u>	<u>4203B87</u>	<u>2/24</u>	<u>7.01</u>	<u>23.4</u>	<u>7.01</u>	<u>-8.8</u>	<u>P/F</u>	<u>L/F</u>
Calibr.			<u>743</u>	<u>2201D88</u>	<u>1/24</u>	<u>4.00</u>	<u>23.0</u>	<u>4.00</u>	<u>169.8</u>	<u>P/F</u>	<u>L/F</u>
Calibr.			<u>750</u>	<u>2202A63</u>	<u>7/23</u>	<u>10.01</u>	<u>23.5</u>	<u>10.01</u>	<u>-180.3</u>	<u>P/F</u>	<u>L/F</u>
ICV			<u>752</u>	<u>4203B87</u>	<u>2/24</u>	<u>7.01</u>	<u>23.5</u>	<u>7.04</u>	<u>-8.3</u>	<u>P/F</u>	<u>L/F</u>
CCV			<u>1433</u>	<u>2202A63</u>	<u>7/23</u>	<u>10.02</u>	<u>23.5</u>	<u>10.04</u>	<u>-183.0</u>	<u>P/F</u>	<u>L/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 10 171.5, slope from 4 to 7 178.6 (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: 5/3/22

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>Brian Davis</u>	<u>6/9/22</u>	<u>759</u>	<u>0.00</u>	<u>0.00</u>	<u>P/F</u>	<u>L/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 (2022-06-06 v1)

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

RQ - 2022-06-06-57				Collected By:		Brian davis					
Customer:		WQAP		Field Report Prepared By:		Brian Davis					
Project ID:		BLOOM_RESP		Sampling Agency:		NEROC					
Location: Dr's Lake end of Lawrence Rd				Comments:							
Field ID: NEHAB0073				Coordinates:		30.12973, -81.75428					
WIN Secondary Resource Type: River/Stream				Collection Equip:		WaterBottle					
WIN ID: NEHAB0073				High Tide Time:		712		Low Tide Time:		1335	
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)	
06/09/2022	11:10	73.4	5.66	29.8	7.54	0.3	0.7	0.7	9523	5.32	
Bloom Observations											
Algal Bloom Observed? ☐ Yes ☒ No											
Water Clarity		☒ Clear ☐ Slightly Turbid ☐ Turbid ☐ Opaque ☐ Green ☐ Red ☐ Brown ☐ Other:									
Bloom Color		☐ Planktonic ☐ Filamentous ☐ Other:									
Algae Type		☐ Mat ☐ Specks ☐ Scum ☐ Glob									
Algae Accumulation		☐ Surface-Entire ☐ Surf-Localized ☐ Surf-Windblown ☐ Suspended ☐ Benthic ☐ Epiphytic									
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 ☐ OV-TOXN				☒ Ice			1	B	
Preserved Nutrients (500mL HDPE)		☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP Acid Lot: SA1308030 Exp: 12/01/22				☒ Ice ☒ H2SO4		☒ <2	1	B	
Filtered Nutrients (P125mL)		☒ W-PO4-F		☒ Field Filtered 0.45um Filter Filter Lot # R1EB01239		☒ Ice			1	B	
Quantitative Algae		☐ DTY-QN-C / PKD-QN-C				☐ Ice ☐ Lugols					
Relinquished By:		Date/Time		Number of Coolers Shipped		Received By:		Date/Time			
Brian Davis		06/09/2022 16:30		1							



Cyanobacteria Bloom Response Field Data Sheet (2022-06-06 v1)

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RQ - 2022-06-06-57				Collected By:		Brian Davis				
Customer:		WQAP		Field Report Prepared By:		Brian Davis				
Project ID:		BLOOM_RESP		Sampling Agency:		NEROC				
Location: Swimming Pen Cr @ Whitey's Fish Camp				Comments:						
Field ID: NEHAB0074				Coordinates:		30.10098, -81.74653				
WIN Secondary Resource Type: River/Stream				Collection Equip:		WaterBottle				
WIN ID: NEHAB0074				High Tide Time:		712	Low Tide Time:		1335	
Matrix:		Fresh 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)
06/09/2022	10:35	69.4	5.16	29.6	7	0.3	1	1	8581	4.74
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 ☐ OV-TOXN				☒ Ice			1	B
Preserved Nutrients (500mL HDPE)		☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP				☒ Ice ☒ H2SO4		☒ <2	1	B
		Acid Lot:		SA1308030		Exp:		12/2/22		
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	
Brian Davis		06/09/2022 16:30		1						



Cyanobacteria Bloom Response Field Data Sheet (2022-06-06 v1)

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RQ - 2022-06-06-57				Collected By:		Brian D					
Customer:		WQAP		Field Report Prepared By:		Brian D					
Project ID:		BLOOM_RESP		Sampling Agency:		NEROC					
Location: LSJR @ 2930 SR 13				Comments:							
Field ID: NEHAB0077				Coordinates:		30.05034, -81.66920					
WIN Secondary Resource Type: River/Stream				Collection Equip:		WaterBottle					
WIN ID: NEHAB0077				High Tide Time:		753		Low Tide Time: 1402			
Matrix: Fresh 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)	
06/09/2022	09:25	82.4	6.22	29.2	7.51	0.3	2.2	1.2	5835	3.14	
	09:35	79.7	5.99	29.2	7.49	1.7				5898	3.18
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 ☐ OV-TOXN				☒ Ice			1	B	
Preserved Nutrients (500mL HDPE)		☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP Acid Lot: SA1308030				☒ Ice ☒ H2SO4		☒ <2	1	B	
Filtered Nutrients (P125mL)		☒ W-PO4-F		☒ Field Filtered 0.45um Filter Filter Lot # R1EB01239		☒ Ice			1	B	
Quantitative Algae		☐ DTY-QN-C / PKD-QN-C				☐ Ice ☐ Lugols					
Relinquished By:		Date/Time		Number of Coolers Shipped		Received By:		Date/Time			
Brian D		06/09/2022 16:30		1							