

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: 8+1+6

RQ: 2020-08-17-24

Project: Extra P. Allocations

- 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 6/18/20

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.	Brian Davis	8/17/20	802	23.3	760.6	8.5	8.5	100.1	✓	1.02	☒ F	☒ F
ICV			803	23.3	760.6	8.5	8.54	100.1	✓	1.02	☒ F	☒ F
CCV	J. P. R. S.	8/17/20	1330	25.4	760.5	8.2	8.72	100.3	-	1.02	☒ F	☒ 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.	Brian Davis	8/17/20	805	200407C	4/21	1000	1000	☒ F	☒ F
ICV			807	200407D	4/21	100	103.8	☒ F	☒ F
CCV	J. P. R. S.	8/17/20	1331	191025C	11/20	50000	50296	☒ F	☒ 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.	Brian Davis	8/17/20	811	2001C31	1/22	7.0	24.8	7.0	-34.2	☒ F	☒ F
Calibr.			814	2910629	10/21	4.0	24.9	4.01	149.5	☒ F	☒ F
Calibr.			816	2002911	8/21	10.0	24.9	10.0	-24.8	☒ F	☒ F
ICV			818	2001C31	1/22	7.0	24.9	7.04	-31.8	☒ F	☒ F
CCV	J. P. R. S.	8/17/20	1333	2002911	8/21	10.0	24.7	9.98	-205.3	☒ F	☒ F
CCV										P / F	L / F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 $\pm$ 50;

mV pH 4 Range +180 $\pm$ 50;

mV pH 10 Range -180 $\pm$ 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	Brian Davis	8/17/20	820	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 (2019-12-16 v4)

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

RQ - 2020-08-17-50		Collected By:	B Davis, J Pellish							
Customer:	NE-DIST	Field Report Prepared By:	Brick Davis							
Project ID:	Algae Response	Sampling Agency:	DEAR NED ROC							
Location:	Comments:		SULFURIC ACID <51% HAZARDOUS 7782-43-6 7782-18-6 Contains: 1:1 H2SO4 May be corrosive to metals. Causes severe skin burns and eye damage. Do not breathe fumes/vapors. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Wash contaminated skin immediately. IF SWALLOWED: Rinse mouth. Do not induce vomiting. IF ON SKIN (or hair): Remove/soak off contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Spin bottles up. Store in corrosion resistant container with a neutralizer like lime. Contains: 1:1 H2SO4 Lot No.: SA9301030 Expires: 10/28/20 See Safety Data Sheet (SDS)							
WIN ID/Field ID:			Coordinates: 30.377022 81.516821							
Canal to Mill Cove		Collection Equip:	Ort40 #7							
WIN ID:	NEHAB0012		High Tide Time:	Low Tide Time:						
Matrix:	SW	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)
8/17/20	1025	68.4	484	30.5	7.17	0.3	2.5	1.1	20030	11.86
	1028	10.3	0.71	30.3	7.03	1.6			23542	14.14
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: _____	☒ N/A					
Algae Distribution	☐ Suspended in water column	☐ On surface	☐ Other: _____	☒ N/A						
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			
	☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP		☒ Ice		☒ H2SO4	☒ <2	1	B		
Preserved Nutrients (500mL HDPE)	Acid Lot:		Exp:							
Filtered Nutrients (P125mL)	☒ W-PO4-F		☒ Field Filtered 0.45µm Filter		☒ Ice		1	B		
Quantitative Algae	☒ DTY-QN-C / PKD-QN-C		☒ Ice		Lugols? Y / N		1	C		
Relinquished By:	Date/Time	Number of Coolers Shipped		Received By:		Date/Time				
B. Davis	1600 8/17/20	2 1								