

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:

57126

RQ:

2021-03-22-16 Alachua Co. 2021-04-05-34

Project:

Alachua Co. Alachua River

- 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 2/15/21

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.	Kim Appleby	4/8/21	839	21.3	762.5	8.9	8.9	102.1	-	1.02852	(P) F	(L) F
ICV			840	21.3	762.5	8.9	8.89	100.4	-	1.02852	(P) F	(L) F
CCV	Jeremy Parrish	4/8/21	1527	21.6	759	8.8	8.81	100.0	-	-	(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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Kim Appleby	4/8/21	842	201222B	1/2022	1000	1000	(P) F	(L) F
ICV			843	201222A	1/2022	100	1036	(P) F	(L) F
CCV	Jeremy Parrish	4/8/21	1628	200902C	9/21	1413	1395	(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.	Kim Appleby	4/8/21	845	2010F27	10/2022	7.00	22.8	7.00	-22.1	(P) F	(L) F
Calibr.			847	2010L31	9/2022	4.00	22.8	4.00	157.8	(P) F	(L) F
Calibr.			848	2012797	5/2022	10.00	22.8	10.00	-190.9	(P) F	(L) F
ICV			850	2010L31	9/2022	4.00	22.8	4.00	156.1	(P) F	(L) F
CCV	Jeremy Parrish		1630	2012797	5/22	10.00	22.8	4.03	-197.8	(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 _____, 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	Kim Appleby	4/8/21	900	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

RQ-2019- <u>2021-04-05-34</u>		Collected By: <u>Kim Appleby + Jeremy Parrish</u>								
Customer: <u>ZIFLA</u>	Field Report Prepared By: <u>Kim Appleby</u>									
Project ID: <u>BLOOM_RESP</u>	Sampling Agency: <u>FDEP</u>									
Field ID: <u>NE HAB0016</u> <u>Lake Winnott off shore land</u>		Comments: <u>Algae seen throughout water column.</u>								
		Collection Equipment: <u>Sample bottle</u>								
Matrix: <u>Fresh</u>	<u>Grab</u>	Coordinates: <u>29.64973, -82.04172</u>								
Tide: ☐ Rising ☐ Falling ☐ Slack ☒ N/A	High Tide Time: <u>—</u>		Low Tide Time: <u>—</u>							
Water Quality										
Date	Time ☒ EST ☐ CEN	D.O. (mg/L)	D.O. (%)	Temp °C	pH (SU)	Sample Depth (m)	Cond. (umho/cm)	Salinity (PPTH)	Secchi Disk (m)	Total Depth (m)
<u>4/8/21</u>	<u>1220</u>	<u>7.46</u>	<u>99.9</u>	<u>23.5</u>	<u>6.12</u>	<u>0.3</u>	<u>51.7</u>	<u>0.02</u>	<u>1.2</u>	<u>5.49</u>
	<u>1222</u>	<u>4.66</u>	<u>49.3</u>	<u>17.7</u>	<u>5.67</u>	<u>4.93</u>	<u>52.2</u>	<u>0.02</u>		
Bloom Observations										
Algal Bloom Observed? ☒ Yes ☐ No										
Water Surface: ☒ Clear ☐ Scum ☐ Globbs ☐ Slick Water Clarity: ☒ Clear ☐ Slightly Turbid ☐ Turbid ☐ Opaque Bloom Color: ☒ Green ☐ Red ☐ Brown ☐ Other: _____ Algae Distribution: ☒ Suspended in water column ☐ On surface ☐ Other: _____ 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		<u>1</u>	<u>A</u>				
Chlorophyll (BP-1L)	☒ CHLSUITE-W		☒ Ice		<u>1</u>	<u>B</u>				
Toxins (BG-WD250)	☒ W-MCYST-AA		☒ Ice		<u>1</u>	<u>B</u>				
Preserved Nutrients (500mL HDPE)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP		☒ Ice ☒ H2SO4	☒ <2	<u>1</u>	<u>B</u>				
	Lot	Exp:		☐ <2						
Filtered Nutrients (P125mL)	☐ W-PO4-F ☐ Field Filtered 0.45um Filter		☐ Ice		<u>1</u>	<u>B</u>				
Quantitative Algae	☒ DTY-QN-C / PKD-QN-C		☒ Ice ☒ Lugols		<u>1</u>	<u>B</u>				
Relinquished By:	Date/Time	Number of Coolers Shipped		Received By:	Date/Time					
<u>Kim Appleby</u>	<u>4/8/21</u>	<u>2</u>								
<u>Ryong</u>	<u>1600</u>									