

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: DESI

RQ- 2022/01-17-52

Project: Chapboard

Algae Bloom Response LSJR @ Beecher Point

- 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 11/10/21

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.	Katrin Villinger	1/17/22	751	21.2	757.8	8.9	-	99.7	-	1.063	P/F	L/F
ICV	↓	↓	754	21.6	757.9	8.8	8.79	99.8	-	1.063	P/F	L/F
CCV	Kim Appleby	↓	1636	19.8	758.2	9.1	9.08	99.3	-	1.063	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 #	Explr. Date	Standard μ hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	K. Villinger	1/17/22	758	210907B	9/22	1000	1000	P/F	L/F
ICV	↓	↓	801	211122B	12/22	1413	1410	P/F	L/F
CCV	Kim Appleby	↓	1644	211226A	5/22	100	102.3	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 #	Explr. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	K. Villinger	1/17/22	803	2109M25	9/23	7.01	21.7	7.01	-24.8	P/F	L/F
Calibr.	↓	↓	809	2108F51	8/23	4.00	21.9	4.00	152.9	P/F	L/F
Calibr.	↓	↓	813	2108H37	2/23	10.03	21.8	10.03	-197.3	P/F	L/F
ICV	↓	↓	816	2109M25	9/23	7.01	21.7	7.06	-25.6	P/F	L/F
CCV	Kim Appleby	↓	1646	2108H37	2/23	10.03	21.8	10.04	-198.8	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 10 172.5, slope from 4 to 7 177.7 (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: 11/10/21

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	K. Villinger	1/17/22	819	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

2022 RQ-2022-01-17-52		Collected By:	Kim Appleby + Katrin Villinger	
Customer	ZIFLA	Field Report Prepared By:	Kim Appleby	
Project ID:	BLOOM_RESP	Sampling Agency:	FDEP	

WIN ID/Field ID: 
 NEHAB0007
 St. Johns River at Beechers Point

Comments: Very Windy. No algae seen.

Matrix: Fresh		Collection Equipment: Ortho Kit #3
Tide: ☐ Rising ☐ Falling ☐ Slack ☒ N/A		Coordinates: 29°27'59"N 81°41'7"W
High Tide Time: -		Low Tide Time: -

Water Quality										
Date	Time ☒ EST ☐ CEN	D.O. (mg/L)	D.O. (%)	Temp °C	pH (SU)	Sample Depth (m)	Cond. (umho/cm)	Salinity (PPT)	Secchi Disk (m)	Total Depth (m)
1/17/22	1200	9.74	97.6	15.4	7.89	0.3 1.22	970	0.48	0.65	1.122

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		1	A
Chlorophyll (BP-1L)	☒ CHLSUITE-W	☒ Ice		1	B
Toxins (BG-WD250)	☒ W-MCYST-AA	☒ Ice		1	B
Preserved Nutrients (500mL HDPE)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP	☒ Ice ☒ H2SO4	☒ <2	1	B
	Lot 5A1105060	Exp: 4/30/22	☐ <2		
Filtered Nutrients (P125mL)	☒ W-PO4-F ☒ Field Filtered 0.45um Filter	☒ 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
Kim Appleby	1/17/22 1600	1		