

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: DPS1

RQ: 2021-08-02-31

Project: BMAP 1 &

Algae bloom = 2021-07-26-26

- 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 7/18/21

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.	J. Lee	8/2/21	0725	22.1	760.8	8.7	8.7	100.1	-	1.06	P/F	L/F
ICV			0726	22.1	760.8	8.7	8.74	100.1	-	1.06	P/F	L/F
CCV	J. Parvish	8/2/21	1455	23.8	759.1	8.4	8.46	100.3	-	-	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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	J. Lee	8/2/21	0729	2104260	05/22	1000	1000	P/F	L/F
ICV			0731	2104260	05/22	100	101.4	P/F	L/F
CCV	J. Parvish	8/2/21	1457	2104260	5/22	20000	19993	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.	J. Lee	8/2/21	0733	2012E39	12/22	7.01	22.2	7.01	-18.9	P/F	L/F
Calibr.			0735	2103659	08/23	4.00	22.5	4.00	161.5	P/F	L/F
Calibr.			0738	2103F53	09/22	10.03	21.8	10.03	786.9	P/F	L/F
ICV			0739	2103659	08/23	4.00	22.5	3.99	160.5	P/F	L/F
CCV	J. Parvish	8/2/21	1457	2103F53	9/22	10.00	21.6	10.08	-191.6	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 10 160, slope from 4 to 7 180.4 (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: 5/18/21

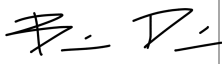
If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: _____; Date of last verification: _____

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	J. Lee	8/2/21	0742	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-2021-07-26-26			Collected By:		Brian Davis, Kimberly Appleby					
Customer		WQMP		Field Report Prepared By:		Brian Davis				
Project ID:		BLOOM_RESP		Sampling Agency:		FDEPNEROC				
Field ID: NEHAB0023 Clapboard Creek at Boat Ramp					Comments: Algae sparse on surface and throughout water column					
										Collection Equipment:
Matrix:		Surface water		(Grab)		Coordinates:		30.4051082, -81.507319		
Tide:		☒ Rising ☐ Falling ☐ Slack ☐ N/A		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)
08/02/21	1220	5.85	81.9	30.4	7.66	0.3	15220	8.80	0.7	8.1
	1222	5.89	75.7	30.1	7.63	7.6	18600	10.95		
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: _____						
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	SA1105060		Exp:	04/30/22		☒ <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	
		1600 08/02/2021		1						

LIMs QC'd: BD 08/17/2021