

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:

51126

RQ:

2021-04-19-47

Project:

Algae Bloom Response

(Clear Lake)

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.	Brian D.	4/20/21	907	22.2	761.2	8.8	8.8	100.2	✓	1.03	P/F	L/F
ICV	↓	↓	911	22.3	761.0	8.70	8.71	100.1	✓	1.02	P/F	L/F
CCV	Kim Appleby	4/20/21	1752	22.3	759.5	8.7	8.71	100.3	-	1.02	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.	Brian D.	4/20/21	915	201222B	1/22	1000	1000	P/F	L/F
ICV	↓	↓	917	201222A	1/22	100	102.8	P/F	L/F
CCV	Kim Appleby	↓	1754	200902L	9/21	1413	1401	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.	Brian D.	4/20/21	923	2010F27	10/22	7.01	22.8	7.01	-21.2	P/F	L/F
Calibr.	↓	↓	940	2010C31	9/12	4.00	22.8	4.00	158.3	P/F	L/F
Calibr.	↓	↓	930	2012797	5/22	10.02	22.9	10.02	-192.2	P/F	L/F
ICV	↓	↓	942	2010F27	10/22	7.01	22.9	7.02	-18.7	P/F	L/F
CCV	Kim Appleby	↓	1756	2012797	5/22	10.00	22.9	10.00	-192.1	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	Brian D.	4/20/21	945	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

2021 RQ- 2019 -04-19-47		Collected By: <i>TS Davis, K Appleby</i>	
Customer: <i>WQAP</i>	Field Report Prepared By: <i>TS Davis</i>		
Project ID: BLOOM_RESP <i>NEROC</i>	Sampling Agency: FDEP		

WIN ID/Field ID: 
NEHAB0018
Clear Lake - 4680 Clear Lake Dr

Comments: *4 Aelstars in lake.*

Collection Equipment: *Outlo Kit #3*

Coordinates: *29.652110, -82.392340*

Matrix: <i>SW</i>	☒ Grab
Tide: ☐ Rising ☐ Falling ☐ Slack ☒ N/A	High Tide Time: <i>—</i> Low Tide Time: <i>—</i>

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)
<i>4/20/21</i>	<i>1455</i>	<i>18.45</i>	<i>224.8</i>	<i>25.4</i>	<i>9.70</i>	<i>0.3</i>	<i>121.3</i>	<i>0.06</i>	<i>0.4</i>	<i>1.4</i>

Algal Bloom Observed?	☒ Yes ☐ No
Water Surface	☒ Clear ☐ Scum ☐ Globs ☐ Slick
Water Clarity	☐ Clear ☒ Slightly Turbid ☐ Turbid ☐ Opaque
Bloom Color	☒ Green ☐ Red ☐ Brown ☐ Other: <i>—</i>
Algae Distribution	☒ Suspended in water column ☐ On surface ☐ Other: <i>—</i>
Water Odors	☒ Normal ☐ Sewage ☐ Petroleum ☐ Chemical ☐ Other: <i>Decomposing fish</i>

Parameter Suite	Parameter Methods	Preservation	pH Check	#Bottles Sent to Lab	Bottle Group
Bloom ID (PT-50ML)	☒ BLOOM-ID	☒ Ice		<i>1</i>	<i>A</i>
Chlorophyll (BP-1L)	☒ CHLSUITE-W	☒ Ice		<i>1</i>	<i>B</i>
Toxins (BG-WD250)	☒ W-MCYST-AA	☒ Ice		<i>1</i>	<i>B</i>
Preserved Nutrients (500mL HDPE)	☐ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP Lot <i>5A0293040</i> Exp: <i>10/19/21</i>	☒ Ice ☐ H2SO4	☐ <2	<i>1</i>	<i>B</i>
Filtered Nutrients (P125mL)	☐ W-PO4-F ☒ Field Filtered 0.45um Filter	☒ Ice		<i>1</i>	<i>B</i>
Quantitative Algae	☒ DTY-QN-C / PKD-QN-C	☒ Ice ☐ Lugols		<i>1</i>	<i>B</i>

Relinquished By: <i>TS-D.</i>	Date/Time: <i>4/20/21 1800</i>	Number of Coolers Shipped: <i>1</i>	Received By:	Date/Time:
-------------------------------	--------------------------------	-------------------------------------	--------------	------------