

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: Stitch

RQ: 2023-10-30-20

Project: 2023-10-30-20

LSTR East Boat

- 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 9/8/23

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.	H. Brown	11/27/23	900	21.8	763.5	8.8	—	100.5	—	1.070	P/F	L/F
ICV	H. Brown	11/27/23	905	21.7	763.4	8.8	8.85	100.4	—	1.070	P/F	L/F
CCV	H. Brown	11/27/23	1300	21.3	762.3	8.9	8.86	100	—	1.070	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.	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
FT 1200									
Calibr.	H. Brown	11/27/23	907	230612B	06/2024	1000	1000	P/F	L/F
ICV	H. Brown	11/27/23	911	230131A	02/2024	100	100.2	P/F	L/F
CCV	H. Brown	11/27/23	1305	230612C	06/2024	50000	50132	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.	H. Brown	11/27/23	913	43040117	4/24/25	7.01	22.5	7.02	-15.1	P/F	L/F
Calibr.	H. Brown	11/27/23	916	43041354	4/3/25	4.00	22.1	4.05	156.7	P/F	L/F
Calibr.	H. Brown	11/27/23	920	M334-14	11/29/24	10.03	22.3	10.02	-189.1	P/F	L/F
ICV	H. Brown	11/27/23	923	43041354	4/3/25	4.00	22.1	4.04	155.3	P/F	L/F
CCV	H. Brown	11/27/23	1310	M334-14	11/29/24	10.04	22.2	10.10	-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 10 174, slope from 4 to 7 171-8 (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: 9/8/23

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	H. Brown	11/27/23	925	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: