

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: 155077

RQ: 2022-08-22-40

Project: LVI SMP

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 8/10

DO FDEP SOP FT 1500	Name	Date	Time CET	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.	Frank Butler	8/23	7:52	24.0	760.1	8.4	8.4	100		1.050	P/F	L/F
ICV	Frank Butler	8/23	7:55	24.1	760.0	8.4	8.4	100			P/F	L/F
CCV	Frank Butler	8/23	13:05	23.2	759.8	8.5	8.6	100.8			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 CET	Lot #	Expir. Date	Standard µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	F. Butler	8/23	7:58	220413C	4/23	1000	99.9	P/F	L/F
ICV			8:00	220413D	4/23	1000	99.0	P/F	L/F
CCV			13:13	220413D	4/23	1000	99.1	P/F	L/F
CCV								P/F	L

Conductivity Acceptance criteria $\pm 5\%$

pH FDEP SOP FT 1100	Name	Date	Time CET	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	F. Butler	8/23	8:05	213754	6/2023	7.	22.1	7.0	-25.5	P/F	L/F
Calibr.			8:08	215478	7/23	4.	23.6	4.0	151.4	P/F	L/F
Calibr.			8:11	205284	10/22	10.	22.0	9.99	-196.5	P/F	L/F
ICV			8:13	215478	7/23	4.0	23.4	4.10	151.8	P/F	L/F
CCV	F. Butler	8/23	13:10	213754	6/2023	7.0	23.4	7.13	-27.6	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 10 171, slope from 4 to 7 176.9 (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: 6/27/2022

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 CET	Calibrated Value (0.00 or Offset), meters	ICV Value, meters	Pass/ Fail	Lab/ Field
Pressure mode in air	Frank Butler	8/23	8:16	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:

G5NWD159 Crescent Lake