

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:

Hodder

RQ:

2024-05-13-63

Project:

SMAP # HAB

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 06/12/2024

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.	Drew Litterick	07/23/24	0730	23.3	763.9	8.6	8.58	100.5	-	1.03	P/F	L/F
ICV	Drew Litterick	07/23/24	0734	23.4	763.9	8.6	8.59	101.0	-	1.03	P/F	L/F
CCV	Drew Litterick	07/23/24	1540	23.3	763.8	8.6	8.65	101.2	-	1.03	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.	Drew Litterick	07/23/24	0732	240209B	02/25	1000	1000	P/F	L/F
ICV	Drew Litterick	07/23/24	0738	240209A	02/25	100	97.8	P/F	L/F
CCV	Drew Litterick	07/23/24	1544	232110D	11/24	100,000	101,862	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.	Drew Litterick	07/23/24	0740	240117B	07/25	7.00	24.2	7.00	-23.3	P/F	L/F
Calibr.	Drew Litterick	07/23/24	0742	240703A	01/26	4.01	24.2	4.01	152.0	P/F	L/F
Calibr.	Drew Litterick	07/23/24	0744	240117C	07/25	10.00	24.2	10.00	-104.4	P/F	L/F
ICV	Drew Litterick	07/23/24	0746	240117C	07/25	10.00	24.2	9.99	-194.5	P/F	L/F
CCV	Drew Litterick	07/23/24	1546	240703A	01/26	4.01	24.2	3.96	154.0	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 -171.1, slope from 4 to 7 175.3 (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: 06/12/24

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	Drew Litterick	07/23/24	0748	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: