

RQ-2024-03-18-38
RQ-2024-03-04-69

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:

Hedoc

RQ:

2024-03-04-71

Project:

SMP/HAR

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

3/21/2024

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.	Andrew Luering	3/26/24	723	22.6	759.5	8.6	8.63	100.0%		1.06	P/F	L/F
ICV	"	"	726	22.7	759.4	8.6	8.62	100.0%		1.06	P/F	L/F
CCV	Andrew Luering	3/26/24	1516	25.8	757.9	8.1	8.10	99.5		1.06	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.	Andrew Luering	3/26/24	728	231110C	11/2024	1000	1000	P/F	L/F
ICV	"	"	731	230927D	10/2024	100	98.4	P/F	L/F
CCV	Andrew Luering	3/26/24	1529	230505F	5/2024	5000	5053	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.	Andrew Luering	3/26/24	737	231110B	5/2025	7.01	23.4	7.01	-17.0	P/F	L/F
Calibr.	"	"	740	231110A	5/2025	4.0	23.3	4.00	157.3	P/F	L/F
Calibr.	"	"	742	230714C	1/2025	10.0	23.3	10.02	-185.8	P/F	L/F
ICV	"	"	743	230714C	1/2025	10.0	23.3	10.01	-186.0	P/F	L/F
CCV	Andrew Luering	3/26/24	1530	231110A	5/2025	4.0	22.8	4.18	149.3	P/F	L/F
CCV								4.12		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 10 168.8, slope from 4 to 7 174.3 (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:

3/21/2024

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	Andrew Luering	3/26/24	745	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: