

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:

Hedco

RQ:

2021-08-23-45
2021-06-14-840

Project:

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

7/22/2021

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	8/25/21	740	23.1	757	8.5	8.52	101.1%	-	1.08	Ⓟ/F	Ⓟ/F
ICV	"	"	742	23.1	757	8.5	8.54	99.7%	-	1.08	Ⓟ/F	Ⓟ/F
CCV	Charlie Hoey	8/25/21	1534	27.1	756.7	7.9	7.91	99.4		1.08	Ⓟ/F	Ⓟ/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	8/25/21	745	110SE62	5/2023	1000	1016	Ⓟ/F	Ⓟ/F
ICV	Andrew Luering	8/25/21	747	110L742	1/2023	100	99.0	Ⓟ/F	Ⓟ/F
CCV	Charlie Hoey	8/25/21	1537	2009AV2	08/22	50000	48035	Ⓟ/F	Ⓟ/F
CCV								P/F	L/F

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time GT-ET	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Andrew Luering	8/25/21	749	2101B07	12/2022	7.0	23.1	76.96	-22.5	Ⓟ/F	Ⓟ/F
Calibr.	"	"	752	2104A60	3/2023	4.0	22.9	3.85	155.6	Ⓟ/F	Ⓟ/F
Calibr.	"	"	754	202C64	6/2022	10.0	23.0	9.91	-191.4	Ⓟ/F	Ⓟ/F
ICV	"	"	756	2012C64	6/2022	10.0	23.0	9.97	-191.8	Ⓟ/F	Ⓟ/F
CCV	Charlie Hoey	8/25/21	1541	2104A60	3/23	4.0	23.2	4.09	149.9	Ⓟ/F	Ⓟ/F
CCV										P/F	L/F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 $\pm$ 50;

mV pH 4 Range +180 $\pm$ 50;

mV pH 10 Range -180 $\pm$ 50;

If mV are recorded: slope from 7 to 10 -168.9 , slope from 4 to 7 -178.1 (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: 7/22/2021

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	8/25/21	759	0.00	0.00	Ⓟ/F	Ⓟ/F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS: