

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: Heavy 200

RQ: 2023-12-04-43

Project: SNP

- 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 10/5/23

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.	F. Butler	12/11/23	7:35	20.4	766.6	9.0	9.10	100.8		1.17	(P) F	(L) F
ICV	F. Butler	12/11/23	7:38	20.4	766.6	9.0	9.09	100.7			(P) F	(L) F
CCV	J. Slade	12/11/23	1505	20.4	766.9	9.3	9.38	101.1			(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.	F. Butler	12/11	7:40	230627B	07/2024	5000	4828	(P) F	(L) F
ICV		12/11	7:45	221221B	01/2024	1000	991	(P) F	(L) F
CCV	J. Slade	12/11/2023	1508	23H100016	01/2025	5000	49720	(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.	F. Butler	12/11	7:40	1110690	1/31/24	7.0	22.0	7.01	-30.9	(P) F	(L) F
Calibr.			7:50	1110690	5/15/24	4.0	21.9	9.00	144.1	(P) F	(L) F
Calibr.			7:52	1110690	12/31/23	10.0	19.7	10.00	-180.0	(P) F	(L) F
ICV	F. Butler		7:55	1110690	5/15/24	4.0	21.7	3.99	140.7	(P) F	(L) F
CCV	J. Slade	12/11/2023	1511	1110690	12/2023	10.0	19.7	10.04	-183.8	(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 10 149.1, slope from 4 to 7 175 (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: 10/05/2023

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	F. Butler	12/11	7:57	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:

Heavy 200 But Ran