

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

SNUG Harbor

Boldly "X" this box if there are qualified data on this page.

Meter ID: 6920-8

RQ: 2019-03-04-23

Project: D.O. - Long - Mont.

- 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 02/14/2019

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.	H-Sprinkle	02/26	1322	23.70	760.0	8.42	8.44	100.4	—	1.065	☒ F	☒ F
ICV			1328	23.57	760.0	8.42	8.42	100.1	—	—	☒ F	☒ F
CCV			1425	24.30	760.0	8.37	8.40	99.8	—	—	☒ 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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	H-Sprinkle	02/26	1332	2806844	05/20	20000	20001	☒ F	☒ F
ICV			1335	2804542	03/20	10000	10030	☒ F	☒ F
CCV			1430	2705034	05/19	50000	51004	☒ F	☒ 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.	H-Sprinkle	02/26	1340	186588	10/20	7.00	23.44	7.00	-48.0	☒ F	☒ F
Calibr.			1342	184124	07/20	4.00	23.51	4.00	127.2	☒ F	☒ F
Calibr.			1346	183381	05/20	10.00	23.53	10.00	-27.1	☒ F	☒ F
ICV			1350	183381	05/20	10.00	23.58	10.01	-22.6	☒ F	☒ F
CCV			1435	186588	10/20	7.00	24.64	7.04	-50.6	☒ F	☒ 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 10 179.1, slope from 4 to 7 175.2 (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: _____

If NO, what will be used? (circle one) ☒ Secchi ☐ Disk ☐ Line / Sonar Unique ID: Secchi #1; Date of last verification: 2/14/2019

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						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: