

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: shhch

RQ: 2020-11-02-08

Project: SCI Paughery

- 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 10/14/20

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.	J. Amsh	11/4/20	733	22.0	769	8.8	8.8	101.2	—	1.020	P/F	L/F
ICV	J. Amsh	11/4/20	746	22.1	769	8.8	8.84	101.3	—	1.020	P/F	L/F
CCV	Kim Appleby	11/4/20	1517	22.8	769.2	8.7	8.75	101.7	—	1.020	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.	J. Amsh	11/4/20	747	200902B	9/21	1000	1000	P/F	L/F
ICV	J. Amsh	11/4/20	746	200902A	9/21	100	102.5	P/F	L/F
CCV	Kim Appleby	11/4/20	1520	191025A	11/20	1418	1413	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.	J. Amsh	11/4/20	750	2001C31	1/22	7.00	22.7	7.01	-49.4	P/F	L/F
Calibr.	J. Amsh	11/4/20	752	2006B06	5/22	4.00	22.7	4.00	130	P/F	L/F
Calibr.	J. Amsh	11/4/20	755	2002911	8/21	10.00	22.7	10.00	-214.5	P/F	L/F
ICV	J. Amsh	11/4/20	757	2006B06	5/22	4.00	22.3	4.02	122.8	P/F	L/F
CCV	Kim Appleby	11/4/20	1525	20-2911	8/21	10.00	23.5	9.96	-216.3	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 _____, slope from 4 to 7 _____ (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: _____; 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	J. Amsh	11/4/20	755	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: