

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

Meter ID: 155077

RQ: 2022-08-08-31

Project: GAP SMP

~~By adding "X" this box, the data are qualified on this page.~~

- 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

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.	B.Olin	8/10/22	0750	22.0	764.2	8.8	8.74	97.3		1.04	P/F	L/F
ICV	↓	↓	0800	20.9	764.3	8.8	8.82	97.9			P/F	L/F
CCV	↓	↓	1221	25.4	764.2	8.2	8.16	99.3			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 umhos/cm	Meter Reading umhos/cm	Pass / Fail	Lab / Field
Calibr.	B.Olin	8/10/22	0803	220413C	9/2023	10,000	9770	P/F	L/F
ICV	↓	↓	0805	220413D	4/2023	100	99.0	P/F	L/F
CCV	↓	↓	1228	220415	5/2023	50,000	off scale	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.	B.Olin	8/10/22	0808	213754	6/23	7.	23.3	6.98	-28.1	P/F	L/F
Calibr.	↓	↓	0809	215478	7/2023	4.	22.8	4.01	147.9	P/F	L/F
Calibr.	↓	↓	0809	205289	10/22	10.	23.4	10.0	-20.8	P/F	L/F
ICV	↓	↓	0811	215478	7/2023	4.	23.0	4.02	148.2	P/F	L/F
CCV	B.Olin	8/10/22	1241	213754	6/23	7	23.1	7.05	-30.6	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 10 178.7;

slope from 4 to 7 176;

(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: 4/4/22 6/27/2022

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	B.Olin	8/10/22		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: