

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

Boldly "X" this box if there is qualified data this page.

Meter ID: 154179

RQ: 2022-03-21-38

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 11/4/21

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.	L.McNally	3/21/22	710	21.8	766.3	8.8	8.84	100.1		1.42	<u>P</u> /F	<u>L</u> /F
ICV	11		727	21.3	766	8.9	8.98	100.7			<u>P</u> /F	<u>L</u> /F
CCV	J. Slade	3/21/22	1517	20.9	765.0	9.0	9.28	102.7			<u>P</u> /F	<u>L</u> /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.	L.McNally	3/21/22	715	210330B	4/22	5000	5000	<u>P</u> /F	<u>L</u> /F
ICV	11		716	210525B	6/22	100	101.1	<u>P</u> /F	<u>L</u> /F
CCV	J. Slade	3/21/22	1520	210525C	6/2022	1000	997	<u>P</u> /F	<u>L</u> /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.	L.McNally	3/21/22	714	202114	5/22	7.	21.6	7.00	-23	<u>P</u> /F	<u>L</u> /F
Calibr.	↓		721	215478	7/23	4.	21.6	4.00	154	<u>P</u> /F	<u>L</u> /F
Calibr.	↓		722	205284	10/22	10.	21.4	10.00	-198	<u>P</u> /F	<u>L</u> /F
ICV	↓		724	215478	7/23	4	21.5	3.98	155	<u>P</u> /F	<u>L</u> /F
CCV	J. Slade	3/21/22	1523	205284	10/2022	10	21.5	10.11	-204.5	<u>P</u> /F	<u>L</u> /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 10 175, slope from 4 to 7 177 (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: 11/4/21

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	L.McNally	3/21/22	726	0.00	0.00	<u>P</u> /F	<u>L</u> /F

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

COMMENTS: