

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: **154179**

RQ: **2021-08-09-31**

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 **6/1/21**

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.	<i>S. Hode</i>	8/9/21	0715	28.1	763.9	7.9	7.86	100.0	—	—	☒ P / ☐ F	☐ L / ☒ F
ICV	<i>S. Hode</i>	8/9/21	0717	28.1	763.9	7.9	7.86	100.0	—	—	☒ P / ☐ F	☐ L / ☒ F
CCV	<i>S. Hode</i>	8/9/21	1248	22.3	764.8	8.8	8.62	98.4	—	—	☒ 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 (Probe 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.	<i>S. Hode</i>	8/9/21	0719	210330B	04/2022	5000	5000	☒ P / ☐ F	☐ L / ☒ F
ICV	<i>S. Hode</i>	8/9/21	0721	210525C	06/2022	1000	995	☒ P / ☐ F	☐ L / ☒ F
CCV	<i>S. Hode</i>	8/9/21	1251	201013A	10/2021	100	101	☒ 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.	<i>S. Hode</i>	8/9/21	0723	202114	05/2022	7	28.1	7.0	-48.0	☒ P / ☐ F	☐ L / ☒ F
Calibr.	<i>S. Hode</i>	8/9/21	0725	205283	10/2022	4	28.1	4.01	132.9	☒ P / ☐ F	☐ L / ☒ F
Calibr.	<i>S. Hode</i>	8/9/21	0727	201473	05/2022	10	28.6	9.97	-223.1	☒ P / ☐ F	☐ L / ☒ F
ICV	<i>S. Hode</i>	8/9/21	0729	205283	10/2022	4.0	27.5	3.85	141.9	☒ P / ☐ F	☐ L / ☒ F
CCV	<i>S. Hode</i>	8/9/21	1253	202114	05/2022	7.6	21.8	6.84	-37.0	☒ 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 **180.9** (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	<i>S. Hode</i>	08/9/21	0730	0.000	0.000	☒ 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.

REMARKS: