

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: Holzer

RQ- 2024-03-18-31

Project: 5MP

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 3/21/2024

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.	Drew L. 20.0	04/30/24	0710	23.4	761	8.5	8.6	105	-	1.03	P/F	L/F
ICV	Drew L. 20.0	04/30/24	0712	23.8	761.4	8.5	8.46	100.2	-	1.03	P/F	L/F
CCV	Drew L. 20.0	04/30/24	1526	23.4	760.3	8.5	8.45	99.4	-	1.03	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.	Drew L. 20.0	04/30/24	0714	240209B	02/25	1000	1000	P/F	L/F
ICV	Drew L. 20.0	04/30/24	0716	230927D	10/24	100	98.6	P/F	L/F
CCV	Drew L. 20.0	04/30/24	1328	240209B	02/25	1000	998	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.	Drew L. 20.0	04/30/24	0718	230927B	04/25	7.0	24.2	7.01	-22.8	P/F	L/F
Calibr.	Drew L. 20.0	04/30/24	0720	240117A	07/25	4.0	24.2	4.00	153.7	P/F	L/F
Calibr.	Drew L. 20.0	04/30/24	0722	230927C	04/25	10.0	24.0	10.01	-192.7	P/F	L/F
ICV	Drew L. 20.0	04/30/24	0728	230927C	04/25	10.0	24.2	10.01	-192.9	P/F	L/F
CCV	Drew L. 20.0	04/30/24	1530	240117A	07/25	4.0	23.6	3.98	153.9	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 10 176.5, slope from 4 to 7 176.5 (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: 03/21/24

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	Drew L. 20.0	0726	0726	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: