

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: 5MP

RQ: 2022-01-31-57

Project: H2O

- 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 01/18/2022

DO FDEP SOP FT 1500	Name	Date	Time GT-ET	Temp °C	Baro- meter mmHg	DO Chart mg/L	Meter DO mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Drew Lillard	02/02/22	0800	19.3	759.6	9.2	9.26	100.0	—	1.07	☒ F	☒ F
ICV			0804	19.3	759.6	9.2	9.19	100.0	—	1.07	☒ F	☒ F
CCV	Andrew Luerking	2/02/22	1526	21.6	758	8.8	8.79	99.8	—	1.07	☒ F	☒ 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. Conduct. EV 1200	Name	Date	Time GT-ET	Lot #	Expir. Date	Standard µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	Drew Lillard	02/02/2022	0806	1108FS1	08/23	1000	1000	☒ F	☒ F
ICV			0808	1105CS17	05/23	100	99.8	☒ F	☒ F
CCV	Andrew Luerking	2/02/22	1528	1105CS1	5/2023	50,000	49900	☒ F	☒ F
CCV								P/F	L/F

Conductivity Acceptance criteria $\pm 5\%$

pH FDEP SOP EV 1100	Name	Date	Time GT-ET	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Drew Lillard	02/02/2022	0810	213013	04/23	7.0	20.2	7.00	-30.4	☒ F	☒ F
Calibr.			0812	2110D40	09/23	4.0	20.1	4.00	149.5	☒ F	☒ F
Calibr.			0814	1106829	11/22	10.0	20.3	10.00	-200.2	☒ F	☒ F
ICV			0816	1106829	11/22	10.0	20.2	10.00	-200.2	☒ F	☒ F
CCV	Andrew Luerking	2/02/22	1530	22	9/2023	4.0	20.4	4.09	143.10	☒ F	☒ F
CCV				2110D40						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 10 169.8, slope from 4 to 7 179.9 (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: 01/18/2022

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 GT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value, meters	Pass / Fail	Lab / Field
Pressure mode in air	Drew Lillard	02/02/22	0820	0.00	0.00	☒ F	☒ F

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

COMMENTS: