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: YSI Mon Sentinel EQ- 2021-09-13-47 Project: SMP: Cont.

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 08/16/21

DO DEP SOP FT 1500	Name	Date	Time ET-ET	Temp °C	Barom. meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	%DO	Probe Charge	Probe Gain	Pass	Lab
Calibr.	William Muller	09/23/21	0720	22.68	757.4	8.6	8.60	99.6		1.092	P / F	L / F
ICV	William Muller	09/23/21	0723	22.68	757.4	8.6	8.60	99.6			P / F	L / F
CCV	Gary Snow	09/28/21	1350	23.5	761.2	8.5	8.64	101.6			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 1600	Name	Date	Time ET-ET	Lot #	Expir. Date	Standard µmhos/cm	Meter reading µmhos/cm	Pass	Lab
Calibr.	William Muller	09/23/21	0724	20116143	11/22	50,000	50.000	P / F	L / F
ICV	William Muller	09/23/21	0726	1009989	8/22	2500	2585	P / F	L / F
CCV	Gary Snow	9/28/21	1355	4108672	7/23	109.0	101.6	P / F	L / F
CCV								P / F	L / F

Conductivity Acceptance criteria ± 5%

pH DEP SOP FT	Name	Date	Time ET-ET	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass	Lab
Calibr.	William Muller	09/23/21	0731	21045375	4/23	7.00	23.6	7.00		P / F	L / F
Calibr.	William Muller	09/23/21	0734	21072416	07/23	4.01	23.5	4.01		P / F	L / F
Calibr.	William Muller	09/23/21	0735	1106221	12/22	10.03	23.4	10.03		P / F	L / F
ICV	William Muller	09/23/21	0741	21072416	07/23	4.01	23.4	4.00		P / F	L / F
CCV	Gary Snow	09/28/21	1358	1106221	12/22	10.00	23.64	10.07		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 ± 50; mV pH 10 Range -180 ± 50;
If mV are recorded: slope from 7 to 10 _____, slope from 4 to 7 _____ (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 ET-ET	Calibrated Value (0.00 or Offset) meters	ICV Value (meters)	Pass	Lab
Pressure mode in air						P / F	L / F

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

COMMENTS: