

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- 2019-02-11-27/28

Project: Smp/Refer Stream

- 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 11/11/19

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.											P / F	L / F
ICV			0820								P / F	L / F
CCV	S. Slade	2/14/19	0840	20.7	769.3	9.09	9.08	10.2			☒ F	☒ F
CCV	S. Slade	2/14/19	1700	19.0	765.9	9.34	9.26	99.9			☒ F	☒ 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.	S. Slade	2/14/19	0823	180517C	May 2019	5000	5000	☒ F	☒ F
ICV	S. Slade	2/14/19	0825	190116A	Jan '20	1000	983	☒ F	☒ F
CCV	S. Slade	2/14/19	1702	180517A	May '19	100	101.2	☒ F	☒ 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.	S. Slade	2/14/19	0830	1805E95	Apr '20	7.	20.3	7.0	-47.6	☒ F	☒ F
Calibr.	S. Slade	2/14/19	0823	481276C	Nov '20	4.	20.1	4.0	129.9	☒ F	☒ F
Calibr.	S. Slade	2/14/19	0825	2804C20	Oct '19	10.	20.2	9.97	-213.3	☒ F	☒ F
ICV	S. Slade	2/14/19	0829	481296C	Nov '20	4.0	20.1	3.91	137.9	☒ F	☒ F
CCV	S. Slade	2/14/19	1705	1805E95	Apr '20	7	20.8	7.06	-46.9	☒ F	☒ 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 10 165.7, slope from 4 to 7 177.5 (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: 10/21/18

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	S. Slade	2/14/19	0829	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: