

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Initially "X" this box if there are qualified data on this page

Meter ID:

L1LJ01

RQ:

2019-02-11-29

Project:

Smg

- 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

11/20/18

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.			717	23.13		8.56	8.62	100.8	68.6		P/F	L/F
ICV	Ben	2/1/19	749	23.13		8.56	8.62	100.8	68.6		P/F	L/F
CCV	Ben	2/1/19	1540	21.73		8.30	9.30	112	68.8		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.			749	2810027	10/20	1,000	1,000	P/F	L/F
ICV	Ben	2/1/19	753	2810946	9/20	100	102	P/F	L/F
CCV	Ben	2/1/19	1505	2807657	10/20	500	497	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.	Ben	2/1/19	755	183273	5/20	7.	23.66	7.00	-28	P/F	L/F
Calibr.	Ben	2/1/19	757	183218	7/20	4.	23.81	4.00	152	P/F	L/F
Calibr.	Ben	2/1/19	800	18540	12/19	10.	23.62	10.00	-200	P/F	L/F
ICV	Ben	2/1/19	802	183218	7/20	4.0	23.86	3.99	162	P/F	L/F
CCV			1507	183273	5/20	7.0	24.50	6.98	-23	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 _____ (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: 2; Date of last verification: 11/20/18

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						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:

D.O. membrane damaged