

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:

1245

RQ:

2019-04-08-05

Project:

CM

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

DO DEP SOP FT 1500	Name	Date	Time CI ET	Temp °C	Baro meter month	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Larry Smith	4/23/19	1203	26.36	760	8.07	8.10	100.1	52.3		(P) F	(L) F
ICV		4/23/19	1206	25.99	760	8.11	8.14	100.2	52.3		(P) F	(L) F
CCV	S. COFORC	4/23/19	1625	25.99	760	8.42	8.42	100.0	52.3		(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 CI ET	Lot #	Expir. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Larry Smith	4/23/19	1137	2901833	12/20	1000	1007	(P) F	(L) F
ICV		4/23/19	1201	2812465	12/20	102	102	(P) F	(L) F
CCV	S. COFORC	4/23/19	1630	2811866	11/20	50,000	49,575	(P) F	(L) F
CCV								P / F	L / F

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CI ET	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Larry Smith	4/23/19	1130	18768	11/20	7.00	24.76	6.99	1.4	(P) F	(L) F
Calibr.	Larry Smith	4/23/19	1115	183218	7/20	4.00	24.69	3.98	167.4	(P) F	(L) F
Calibr.	Larry Smith	4/23/19	1140	186877	10/20	10.00	25.23	10.00	167.0	(P) F	(L) F
ICV	Larry Smith	4/23/19	1208	183218	7/20	4.00	25.07	4.04	165.0	(P) F	(L) F
CCV	S. COFORC	4/23/19	1635	187681	11/20	7.00	24.74	7.01	-1.8	(P) F	(L) F
CCV										P / F	L / F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 $\pm$ 50;

mV pH 4 Range +180 $\pm$ 50;

mV pH 10 Range -180 $\pm$ 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: Deeper Blue Date of last verification: 12/20/18

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CI 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.

REMARKS: