

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: SECOND HAND

RQ: 2021-03-15-67

Project: CONTINUOUS

- 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 2/11/21

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.	Chris Harmoth	3/18/21	0818	23.7	761.3	8.5	8.47	100.2	-	1.05	P/F	L/F
ICV	↓	↓	0821	23.6	761.1	8.5	8.48	100.1	-	-	P/F	L/F
CCV	BARRINGTON	3/18/21	0958	25.3	762.0	8.2	8.23	100.3	-	-	P/F	L/F
CCV	BARRINGTON	3/23/21	1210	23.1	762.0	8.6	8.64	100.9	-	-	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.	Chris Harmoth	3/18/21	0800	1009989	08/22	2500	2500	P/F	L/F
ICV	↓	↓	0803	2012621	12/22	180	100.0	P/F	L/F
CCV	BARRINGTON	3/18/21	095100	2012077	12/22	50,000	48804	P/F	L/F
CCV	BARRINGTON	3/23/21	1212	2012077	12/22	50,000	48420	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.	Chris Harmoth	3/18/21	0806	2012982	11/22	7.000	23.8	7.01	-49.2	P/F	L/F
Calibr.	↓	↓	0809	2011891	10/22	4.006	23.9	4.00	1240	P/F	L/F
Calibr.	↓	↓	0812	2010879	04/22	10.008	24.0	10.01	215.1	P/F	L/F
ICV	↓	↓	0815	2011891	10/22	4.008	23.9	3.99	-	P/F	L/F
CCV	BARRINGTON	3/18/21	1002	2010679	4/22	10.01	25.0	10.00	-	P/F	L/F
CCV	BARRINGTON	3/23/21	1204	2010679	4/22	10.02	23.5	9.91	-	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 10 165.9, slope from 4 to 7 173.2 (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: 2/11/21

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: DEEP BLUE; Date of last verification: 2/11/21

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: