

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: 51176

RQ: 2020-02-03-25

Project: BINAP 1

- 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 10/19

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.	Brian D.	2/4/20	755	21.9	761.4	8.8	8.8	100.2	1.03	1.03	P/F	L/F
ICV	↓	↓	756	22.1	761.5	8.8	8.76	100.3	1.03	1.03	P/F	L/F
CCV	K. Appleby	↓	1219	21.9	760.3	8.8	8.77	99.4	1.03	1.03	P/F	L/F
CCV							8.76				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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	Brian Davis	2/4/20	257	191018	10/20	1000	1000	P/F	L/F
ICV	↓	↓	259	147103	4/20	147	147.8	P/F	L/F
CCV	K. Appleby	↓	1222	1910253	11/20	20,000	19,562	P/F	L/F
CCV								P/F	L/F

Conductivity Acceptance criteria ± 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.	Brian Davis	2/4/20	806	2902778	1/21	7.01	22.8	7.01	-25.3	P/F	L/F
Calibr.	↓	↓	808	2907062	7/21	4.0	23.1	4.0	160.2	P/F	L/F
Calibr.	↓	↓	811	2904E91	10/20	10.02	23.2	10.02	-191.8	P/F	L/F
ICV	↓	↓	814	2902778	1/21	7.01	23.2	7.06	-21.6	P/F	L/F
CCV	K Appleby	↓	1224	2907062	7/21	4.00	23.6	4.02	157.0	P/F	L/F
CCV	↓	↓	1226	2904E91	10/20	10.00	23.5	9.96	-192.5	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: 10/19

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	Brian Davis	2/4/20	817	0.00	0.00	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: