

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: **DEP#154181**

RQ: **2019-04-22-08**

Project: **BMAP 2**

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 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. O'Connor	04-23-19	0720	22.8	760.1	8.6	8.6	100.0	-	-	(P) F	(L) F
ICV	✓	✓	0725	23.0	760.2	8.6	8.58	99.9	-	-	(P) F	(L) F
CCV	A. Kalmbacher	4-23-19	1550	25.6	758.6	8.2	8.22	99.9	-	-	(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 D55 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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	P. O'Connor	04-23-19	0727	190319A	03-2020	1000	1000	(P) F	(L) F
ICV	✓	✓	0729	190125A	02-2020	100	102.7	(P) F	(L) F
CCV	A. Kalmbacher	04-23-19	1555	190319A	03/2020	1,000	999	(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.	P. O'Connor	04-23-19	0732	2811E61	11-2020	7.	23.5	7.01	-48.1	(P) F	(L) F
Calibr.	✓	✓	0734	2901A40	01-2021	4.	23.6	4.00	120.4	(P) F	(L) F
Calibr.	✓	✓	0736	2809980	03-2020	10.	23.5	10.00	-222.7	(P) F	(L) F
ICV	✓	✓	0740	2811E61	11-2020	7.0	23.4	6.97	-47.8	(P) F	(L) F
CCV	A. Kalmbacher	4-23-19	1600	2809980	03-2020	10	24.2	10.08	-226.3	(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: _____; 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						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:

BDP 4/30/19