

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: Crawpaddy

RQ- 2021-08-09-21

Project: SMO

- 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 9/3/21

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.	T. Rorden	9/28/21	635	23.4	755.3	8.5	8.46	99.4	—	0.972	P/F	L/F
ICV				23.5	755.4	8.5	8.46	99.5	—	—	P/F	L/F
CCV				14.54	754.2	8.2	8.48	102.2	—	—	P/F	L/F
CCV				14.54	754.7						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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	TR	9/28/21	635	210127B	2/22	100.2	100.0	P/F	L/F
ICV				1105C57	5/23	100	100.9	P/F	L/F
CCV				1454 1105C57	5/23	100	100.6	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.	TR	9/28/21	635	210792	2/23	7.00	23.8	7.00	-70.7	P/F	L/F
Calibr.				205283	10/22	4.00	23.5	4.00	103.9	P/F	L/F
Calibr.				207370	3/23	10.01	24.0	10.01	-247.8	P/F	L/F
ICV				207370	3/23	10.01	24.0	9.99	-246.1	P/F	L/F
CCV				1454 205283	10/22	4.00	24.0	4.13	97.5	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 10 172.1, slope from 4 to 7 174.6 (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: 9/3/21

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: Knothead; Date of last verification: 6/4/21

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	TR	9/28/21	635	0.272	0.273	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:

RQ-2021-09-06-17

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:

Shrimp Trac

RQ-

2021-08-02-51

Project:

BMAP

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

9/3/21

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.	T. Rio-Ran	9/28/21	642	23.6	755.3	8.4	8.43	99.4	—	1.044	P/F	L/F
ICV	1	1	1	23.6	755.3	8.4	8.42	99.4	—	—	P/F	L/F
CCV	Victoria Schwartz	9/28/21	13:56	23.2	755.0	8.5	8.54	100.0	—	—	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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	TR	9/28/21	642	2101278	2/22	1000	1000	P/F	L/F
ICV	1	1	1	1105057	5/23	100	100.2	P/F	L/F
CCV	Victoria Schwartz	9/28/21	14:05	1103983	02/23	10,000	10055	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.	TR	9/28/21	642	210792	2/23	7.00	23.9	7.00	-76.4	P/F	L/F
Calibr.	1	1	1	205283	10/22	4.00	23.5	4.00	99.7	P/F	L/F
Calibr.	1	1	1	207370	3/23	10.01	23.9	10.01	-257.6	P/F	L/F
ICV	1	1	1	207370	3/23	10.01	24.0	10.00	-256.4	P/F	L/F
CCV	Victoria Schwartz	9/28/21	14:12	205283	10/22	4.00	23.7	4.14	92.7	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 10 181.2, slope from 4 to 7 177.1 (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: 9/3/21If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: Light; Date of last verification: 6/9/21

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	TR	9/28/21	642	0.272	0.272	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:

BMAP: Long Branch/Salt/Sweet