

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Meter ID: Shrimp Trap

RQ- 2021-08-02-23

Project: SmP & HAB

Boldly "X" this box if there are qualified data on this page.

- 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.	Terry Riordan	11/1/21	0715	22.9	757.0	8.6	8.56	99.6	/	1.051	P/F	L/F
ICV	1	1	0716	22.9	757.1	8.6	8.56	99.6	/	/	P/F	L/F
CCV	Terry Riordan	1	1508	21.9	756.2	8.7	8.81	100.6	/	/	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.	Terry Riordan	11/1/21	0719	210127B	2/22	1000	1000	P/F	L/F
ICV	1	1	0722	2107F26	7/23	100	100.2	P/F	L/F
CCV	Terry Riordan	1	1503	210127C	2/22	50,000	49857	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.	Terry Riordan	11/1/21	0727	210792	2/23	7.01	22.6	7.01	-77.2	P/F	L/F
Calibr.	1	1	0730	210273	2/23	4.00	22.7	4.00	99.0	P/F	L/F
Calibr.	1	1	0734	207370	3/23	10.02	22.6	10.02	-257.9	P/F	L/F
ICV	1	1	0736	207320	3/23	10.02	22.7	10.01	-256.8	P/F	L/F
CCV	Terry Riordan	1	1505	210273	2/23	4.00	22.6	4.01	99.6	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 10 180.7, slope from 4 to 7 176.0 (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: light; 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	Terry Riordan	11/1/21	0737	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:

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: Craw Daddy

RQ: 2021-11-01-16

Project: 5 mP

- 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.	Terry Riordan	11/1/21	0823	22.7	757.3	8.6	8.60	99.6	/	0.982	P/F	L/F
ICV	1	1	0824	22.8	757.	8.6	8.59	99.6	/	/	P/F	L/F
CCV	Victoria Schwach	11/1/21	16:34	22.4	756.2	8.6	8.78	100.9	/	/	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 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.	Terry Riordan	11/1/21	0828	210127B	2/22	1000	1000	P/F	L/F
ICV	1	1	0830	2107F26	7/23	100	100.8	P/F	L/F
CCV	Victoria Schwach	11/1/21	16:29	210127C	02/22	50,000	49,530	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.	Terry Riordan	11/1/21	0834	210792	4/23	7.01	22.6	7.01	-71.2	P/F	L/F
Calibr.			0836	210273	2/23	4.00	22.6	4.00	105.2	P/F	L/F
Calibr.			0839	207370	3/23	10.02	22.6	10.02	-249.6	P/F	L/F
ICV			0840	207370	3/23	10.02	22.7	10.01	-248.7	P/F	L/F
CCV	Victoria Schwach	11/1/21	16:25	210273	02/23	4.00	22.7	4.16	96.4	P/F	L/F
CCV							4.13	98.2		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 10 178.4, slope from 4 to 7 176.4 (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	Terry Riordan	11/1/21	0840	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: