

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 Trap RQ: 2021-02-01-72 Project: Shrimp HAB

- 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 12/4/20

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. Riordan	2/11/21	0740	23.1	756.5	8.5	8.52	99.5	-	1.040	(P) F	(L) F
ICV	1	1	1	23.2	756.5	8.5	8.51	99.6	-	-	(P) F	(L) F
CCV	Katie March	2/11/21	1531	27.7	753.5	7.9	7.73	98.4	-	-	(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.	T. Riordan	2/11/21	0740	201026A	11/21	1000	1000	(P) F	(L) F
ICV	1	1	1	200821	9/21	100	100	(P) F	(L) F
CCV	Katie March	2/11/21	1535	201026A	11/21	994	999	(P) F	(L) F
CCV						1000 μ m		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.	T. Riordan	2/11/21	0740	202114	5/22	7.00	23.6	7.00	-45.6	(P) F	(L) F
Calibr.	1	1	1	200052	2/22	4.00	23.5	4.00	129.8	(P) F	(L) F
Calibr.	1	1	1	203539	6/22	10.01	23.5	10.01	-224.2	(P) F	(L) F
ICV	1	1	1	20052	2/22	4.00	23.4	4.00	125.5	(P) F	(L) F
CCV	Katie March	2/11/21		203539	6/22	10.01	23.7	3.97	132.3	(P) F	(L) F
CCV							10.13	4.00		(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 10 178.6, slope from 4 to 7 175.4 (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: 12/4/20

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: light; Date of last verification: 12/4/20

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	T. Riordan	3/11/21	0740	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:

Lake Minnehaha

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- SMP-2021-02-08-15

Project: Smp # HAB

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

12/04/2020

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.	Katie March	2/11/21	8:40	23.0	750.8	8.5	8.50	99.7	/	1.0556	P/F	L/F
ICV		1	1	23.4	757.0	8.5	8.49	99.7	/	/	P/F	L/F
CCV	Leif Bonum	1	15:00	24.6	753.6	8.3	8.36	100.3	/	/	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.	Katie March	2/11/21	8:45	20126A	1/21	1000	1000	P/F	L/F
ICV		1	1	200821	9/21	100	103.7	P/F	L/F
CCV	Leif Bonum	1	15:00	200821	9/21	100	104.0	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.	Katie March	2/11/21	8:50	202114	5/22	7.00	23.6	7.00	-42.6	P/F	L/F
Calibr.		1	1	200052	2/22	4.00	23.6	4.00	132.4	P/F	L/F
Calibr.		1	1	203539	6/22	10.02	23.4	10.02	-223.8	P/F	L/F
ICV		1	1	200052	2/22	4.00	23.5	3.95	140.6	P/F	L/F
CCV	Leif Bonum	1	15:00	203539	6/22	10.01	23.6	10.02	-223.3	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 10 181, slope from 4 to 7 175 (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: 12/4/20

If NO, what will be used? (circle one) Secchi Disk Line Sonar Unique ID: Knothall Date of last verification: 12/4/20

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	Katie March	2/11/21	8:55	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: