

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: 2021-08-23-20

Project: SMP

- 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

6/4/21

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. Riordan	8/23/21	7:15	23.7	754.4	8.4	8.40	99.3	—	1.077	P/F	L/F
ICV	1	1	1	23.8	754.4	8.4	8.39	99.3	—	—	P/F	L/F
CCV	K March	8/23/21	14:15	25.6	754.6	8.43	8.54	103.0	—	—	P/F	L/F
CCV				24		km					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. R.	8/23/21	7:15	210127B	2/22	1000	1000	P/F	L/F
ICV	1	1	1	1105C57	5/23	100	100.9	P/F	L/F
CCV	K March	8/23/21	14:20	1103983	2/23	10,000	10,060	P/F	L/F
CCV	Victoria Schwartz	8/23/21	15:26	210127C	02/22	50,000	49,668	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. R.	8/23/21	7:15	210792	2/23	7.00	24.0	7.00	-70.7	P/F	L/F
Calibr.	1	1	1	205283	10/22	4.00	23.9	4.00	104.8	P/F	L/F
Calibr.	1	1	1	207370	3/23	10.01	24.0	10.01	-252.8	P/F	L/F
ICV	1	1	1	207370	3/23	10.01	24.0	10.01	-252.0	P/F	L/F
CCV	K March	8/23/21	14:25	205283	10/22	4.00	24.0	4.11	100.7	P/F	L/F
CCV								4.09		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 10 182.1, slope from 4 to 7 175.5 (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:

6/4/21

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	T. Riordan	8/23/21	7:15	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:

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

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Meter ID: Craw Daddy

RQ: 2021-08-23-21

Project: 5m P

- 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

6/4/21

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. Riordan	8/23/21	710	24.4	753.9	8.3	8.29	99.2	—	0.979	☒ F	☒ F
ICV			1	24.4	754.3	8.3	8.29	99.2	—	—	☒ F	☒ F
CCV			1510	23.8	754.2	8.4	8.56	101.3	—	—	☒ F	☒ 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.	T. R.	8/23/21	710	210127B	2/22	1000	1000	☒ F	☒ F
ICV			1	1105C57	5/23	100	100.4	☒ F	☒ F
CCV			1510	1105C57	5/23	100	100.8	☒ F	☒ 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.	T. R.	8/23/21	710	210792	2/23	7.00	24.0	7.00	-63.4	☒ F	☒ F
Calibr.				205283	10/22	4.00	23.9	4.00	113.8	☒ F	☒ F
Calibr.				207370	3/23	10.01	24.0	10.01	-241.2	☒ F	☒ F
ICV				207370	3/23	10.01	24.0	10.00	-240.6	☒ F	☒ F
CCV			1510	205283	10/22	4.00	24.0	4.13	106.5	☒ F	☒ 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 10 177.8, slope from 4 to 7 177.2 (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: 6/4/21

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	T. Riordan	8/23/21	710	0.272	0.271	☒ F	☒ 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: End Budget

RO: 2021-08-02-13

Project: 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 6/4/21

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.	<u>W Bates</u>	<u>8/23/21</u>	<u>11:43</u>	<u>24.0</u>	<u>755.1</u>	<u>8.4</u>	<u>8.34</u>	<u>99.4</u>	<u>/</u>	<u>1.04583</u>	<u>(P) F</u>	<u>(L) F</u>
ICV	<u>1</u>	<u>1</u>	<u>1</u>	<u>24.0</u>	<u>755.1</u>	<u>8.4</u>	<u>8.37</u>	<u>99.4</u>	<u>/</u>	<u>/</u>	<u>(P) F</u>	<u>(L) F</u>
CCV	<u>1</u>	<u>8/23/21</u>	<u>14:44</u>	<u>26.7</u>	<u>754.4</u>	<u>8.0</u>	<u>7.98</u>	<u>99.7</u>	<u>/</u>	<u>/</u>	<u>(P) F</u>	<u>(L) F</u>
CCV											<u>P / F</u>	<u>L / F</u>

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.	<u>W Bates</u>	<u>8/23/21</u>	<u>11:50</u>	<u>210127B</u>	<u>02/22</u>	<u>1000</u>	<u>1000</u>	<u>(P) F</u>	<u>(L) F</u>
ICV	<u>1</u>	<u>1</u>	<u>1</u>	<u>1105C57</u>	<u>05/23</u>	<u>100</u>	<u>103.3</u>	<u>(P) F</u>	<u>(L) F</u>
CCV	<u>1</u>	<u>8/23/21</u>	<u>14:48</u>	<u>1105C57</u>	<u>05/23</u>	<u>100</u>	<u>100.8</u>	<u>(P) F</u>	<u>(L) F</u>
CCV								<u>P / F</u>	<u>L / F</u>

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.	<u>W Bates</u>	<u>8/23/21</u>	<u>12:00</u>	<u>210792</u>	<u>02/23</u>	<u>7.00</u>	<u>24.0</u>	<u>7.00</u>	<u>-14.0</u>	<u>(P) F</u>	<u>(L) F</u>
Calibr.	<u>1</u>	<u>1</u>	<u>1</u>	<u>205283</u>	<u>10/22</u>	<u>4.00</u>	<u>23.8</u>	<u>4.00</u>	<u>165.5</u>	<u>(P) F</u>	<u>(L) F</u>
Calibr.	<u>1</u>	<u>1</u>	<u>1</u>	<u>207370</u>	<u>03/23</u>	<u>10.01</u>	<u>24.0</u>	<u>10.01</u>	<u>-110.0</u>	<u>(P) F</u>	<u>(L) F</u>
ICV	<u>1</u>	<u>1</u>	<u>12:15</u>	<u>205283</u>	<u>10/22</u>	<u>4.00</u>	<u>23.8</u>	<u>3.99</u>	<u>165.4</u>	<u>(P) F</u>	<u>(L) F</u>
CCV	<u>W Bates</u>	<u>8/23/21</u>	<u>14:50</u>	<u>210792</u>	<u>02/23</u>	<u>7.00</u>	<u>24.2</u>	<u>7.13</u>	<u>-19.5</u>	<u>(P) F</u>	<u>(L) F</u>
CCV										<u>P / F</u>	<u>L / F</u>

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: 6/4/21

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: Crusty; 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	<u>W Bates</u>	<u>8/23/21</u>	<u>12:30</u>	<u>0.272</u>	<u>0.272</u>	<u>(P) F</u>	<u>(L) F</u>

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS: