

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:

2023-03-27-15 HAB

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

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.	M. Bearden	4/3/23	732	24.0	758.7	8.4	8.41	99.8		1.06	P / F	L / F
ICV			0736	24.0	758.6	8.4	8.47	100.6			P / F	L / F
CCV	K. March		1100	23.2	757.4	8.5	9.04	105.8			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.	MB	4/3	0743	2207793	6/24	1000	1000	P / F	L / F
ICV			0748	2207695	7/24	100	100.0	P / F	L / F
CCV	K. March		1615	2207695	7/24	100	100.3	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.	MB	4/3	0751	223156	6/24	7.01	23.7	7.01	-40.8	P / F	L / F
Calibr.			0754	215478	7/23	4.00	23.4	4.00	137.2	P / F	L / F
Calibr.			0757	222715	7/24	10.02	23.3	10.02	-218.7	P / F	L / F
ICV			0759	222715	7/24	10.0	23.3	10.01		P / F	L / F
CCV	K. March		1620	215478	7/23	4.00	23.3	4.04		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 10 177.9, slope from 4 to 7 178 (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: 12/23

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: Light; Date of last verification: 11/29/22

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	MB	4/3	0801	0.272	0.271	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-

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: 11/25/23

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>M. Bearden</u>	<u>4/3/23</u>	<u>7:34</u>	<u>23.4</u>	<u>758.6</u>	<u>8.5</u>	<u>8.50</u>	<u>99.8</u>	<u>✓</u>	<u>0.99</u>	<u>P/F</u>	<u>L/F</u>
ICV	<u>1</u>	<u>1</u>	<u>0740</u>	<u>23.4</u>	<u>758.6</u>	<u>8.5</u>	<u>8.62</u>	<u>101.3</u>	<u>✓</u>	<u>✓</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u>Jessie Archer</u>	<u>4/4/23</u>	<u>0729</u>	<u>22.8</u>	<u>758.4</u>	<u>8.6</u>	<u>8.81</u>	<u>102.4</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>MB</u>	<u>4/3</u>	<u>0747</u>	<u>2207793</u>	<u>6/24</u>	<u>1000</u>	<u>1000</u>	<u>P/F</u>	<u>L/F</u>
ICV		<u>1</u>	<u>0749</u>	<u>2207695</u>	<u>7/24</u>	<u>100</u>	<u>101.2</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u>Lif Bowman</u>		<u>17:10</u>	<u>1107873</u>	<u>07/23</u>	<u>70,000</u>	<u>70,380</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>MB</u>	<u>4/3</u>	<u>0753</u>	<u>223156</u>	<u>6/24</u>	<u>7.01</u>	<u>23.4</u>	<u>7.01</u>	<u>-39.4</u>	<u>P/F</u>	<u>L/F</u>
Calibr.	<u>1</u>	<u>1</u>	<u>0755</u>	<u>215478</u>	<u>7/23</u>	<u>4.00</u>	<u>23.4</u>	<u>4.00</u>	<u>139.1</u>	<u>P/F</u>	<u>L/F</u>
Calibr.	<u>1</u>	<u>1</u>	<u>0758</u>	<u>222715</u>	<u>7/24</u>	<u>10.02</u>	<u>23.4</u>	<u>10.02</u>	<u>-217.9</u>	<u>P/F</u>	<u>L/F</u>
ICV			<u>0800</u>	<u>222715</u>	<u>7/24</u>	<u>10.0</u>	<u>23.4</u>	<u>10.01</u>		<u>P/F</u>	<u>L/F</u>
CCV	<u>Lif Bowman</u>		<u>17:15</u>	<u>215478</u>	<u>7/23</u>	<u>4.00</u>	<u>23.4</u>	<u>4.00</u>	<u>135.8</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: 11/25/23

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: Knothead; Date of last verification: 11/22/22

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>MB</u>	<u>4/3</u>	<u>0801</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: