

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

Boldly "X" this box if there are quality data on this page

Meter ID: Crow Daddy

RQ- 2021-11-22-03

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 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.	Victoria Schwartz	11/22/21	9:07	23.3	753.6	8.5	8.45	99.2		1.064915	P/F	L/F
ICV				23.4	753.6	8.4	8.46	99.3			P/F	L/F
CCV		11/23/21	8:01	22.1	756.1	8.7	9.57	109.6			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.	Victoria Schwartz	11/22/21	9:13	210127B	02/22	1000	1000	P/F	L/F
ICV				2109K87	09/23	100	99.3	P/F	L/F
CCV			12:40	2109K87	09/23	100	99.6	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.	Victoria Schwartz	11/22/21	9:20	210792	02/23	7.01	23.3	7.01	-73.3	P/F	L/F
Calibr.				210273	02/23	4.00	23.4	4.00	100.6	P/F	L/F
Calibr.				207370	03/23	10.02	23.4	10.02	-254.6	P/F	L/F
ICV				210273	02/23	4.00	23.3	3.99	102.8	P/F	L/F
CCV			12:42	210273	02/23	4.00	23.2	4.07	97.6	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 10 181.3, slope from 4 to 7 173.9 (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	V. Schwartz	11/22/21	9:43	0.272	0.274	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:

DD CCV did NOT PASS

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- 2021-11-15-09

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

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.	Victoria Schwartz	11/23/21	8:15	22.0	756.3	8.7	8.70	99.5		1.031304	P/F	L/F
ICV			1	22.0	756.4	8.7	8.70	99.5			P/F	L/F
CCV	Leif Boman		14:00	20.0	756.7	9.1	8.98	99.1			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.	Victoria Schwartz	11/23/21	8:22	210127B	02/22	1000	1000	P/F	L/F
ICV			1	2109K87	09/23	100	98.5	P/F	L/F
CCV	Leif Boman		14:00	2109K87	09/23	100	98.7	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.	Victoria Schwartz	11/23/21	8:34	210792	02/23	7.01	22.5	7.01	-82.8	P/F	L/F
Calibr.				210273	02/23	4.00	22.7	4.00	93.5	P/F	L/F
Calibr.				207370	03/23	10.02	22.6	10.02	-262.0	P/F	L/F
ICV			8:47	210273	02/23	4.00	22.6	3.96	96.7	P/F	L/F
CCV	Leif Boman		14:00	207370	03/23	10.05	21.4	9.99	-258.6	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 10 179.2, slope from 4 to 7 176.3 (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	V. Schwartz	11/23/21	8:52	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)

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Meter ID: Shrimp Trap

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

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>Matthew Borden</u>	<u>11/22/21</u>	<u>0714</u>	<u>23.5</u>	<u>752.9</u>	<u>8.4</u>	<u>8.42</u>	<u>99.1</u>	<u>/</u>	<u>/</u>	<u>P/F</u>	<u>L/F</u>
ICV	<u>1</u>	<u>1</u>	<u>0717</u>	<u>23.5</u>	<u>753.0</u>	<u>8.4</u>	<u>8.45</u>	<u>99.4</u>	<u>/</u>	<u>/</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u>Leif Boman</u>	<u>1</u>	<u>15:35</u>	<u>22.7</u>	<u>751.2</u>	<u>8.5</u>	<u>8.84</u>	<u>103.3</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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	<u>MB</u>	<u>11/22</u>	<u>0721</u>	<u>2101273</u>	<u>2/22</u>	<u>1000</u>	<u>1000</u>	<u>P/F</u>	<u>L/F</u>
ICV	<u>1</u>	<u>1</u>	<u>0732</u>	<u>2109K87</u>	<u>9/23</u>	<u>100</u>	<u>103.9</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u>1</u>	<u>1</u>	<u>1338</u>	<u>2109K87</u>	<u>9/23</u>	<u>100</u>	<u>101.0</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u>Leif Boman</u>	<u>1</u>	<u>1535</u>	<u>2109K97</u>	<u>09/23</u>	<u>100</u>	<u>101.1</u>	<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 <u>7.01</u>	mV	Pass / Fail	Lab / Field
Calibr.	<u>MB</u>	<u>11/22</u>	<u>0724</u>	<u>210792</u>	<u>2/23</u>	<u>7.01</u>	<u>23.4</u>	<u>285.9</u>	<u>-80.4</u>	<u>P/F</u>	<u>L/F</u>
Calibr.	<u>1</u>	<u>1</u>	<u>0726</u>	<u>210273</u>	<u>2/23</u>	<u>4.00</u>	<u>23.3</u>	<u>4.00</u>	<u>98.0</u>	<u>P/F</u>	<u>L/F</u>
Calibr.	<u>1</u>	<u>1</u>	<u>0729</u>	<u>207370</u>	<u>3/23</u>	<u>10.02</u>	<u>23.4</u>	<u>10.02</u>	<u>-258.5</u>	<u>P/F</u>	<u>L/F</u>
ICV	<u>1</u>	<u>1</u>	<u>0731</u>	<u>207370</u>	<u>3/23</u>	<u>10.0</u>	<u>23.4</u>	<u>10.01</u>		<u>P/F</u>	<u>L/F</u>
CCV	<u>1</u>	<u>1</u>	<u>1336</u>	<u>210792</u>	<u>2/23</u>	<u>7.0</u>	<u>22.9</u>	<u>7.04</u>		<u>P/F</u>	<u>L/F</u>
CCV	<u>Leif Boman</u>	<u>1</u>	<u>1535</u>	<u>210792</u>	<u>02/23</u>	<u>7.01</u>	<u>23.3</u>	<u>7.21</u>		<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 10 178.1, slope from 4 to 7 178.1 (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:

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

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>11/22</u>	<u>0735</u>	<u>0.272</u>	<u>0.271</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: