

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-

2022-07-04-41

Project:

Trend

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

6/1/22

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.	K March	7/1/22	800	22.3	754.9	8.6	8.62	99.3	—	1.02 85.83	P/F	L/F
ICV	1	1		22.4	755.0	8.6	8.62	99.3	—	—	P/F	L/F
CCV	1	1	1520	25.1	754.3	8.2	8.17	99.0	—	—	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.	K March	7/1/22	805	220328A	4/23	1000	1000	P/F	L/F
ICV	1	1		2112E28	12/23	100	100.6	P/F	L/F
CCV	1	1	1525	2112E28	12/23	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.	K March	7/1/22	815	210792	2/23	7.00	23.7	7.00	-27.4	P/F	L/F
Calibr.	1	1		206704	11/22	4.00	23.7	4.00	151.2	P/F	L/F
Calibr.	1	1		207370	3/23	10.01	23.7	10.01	-204.9	P/F	L/F
ICV	1	1		207370	3/23	10.01	23.7	9.99	-204.1	P/F	L/F
CCV	1	1		207370	3/23	10.01	23.7	9.99	-204.1	P/F	L/F
CCV	1	1	1530	206704	11/22	4.00	23.5	4.11	144.6	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 10 177.5, slope from 4 to 7 178.6 (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:

6/1/22

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: Lighter Date of last verification: 5/31/22

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	K March	7/1/22	825	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:

RQ-2022-07-04-41

Form effective August 1, 2018

CRGT2207

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: Crow Dally

RQ: 2022-06-27-21

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 6/1/22

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>Katie March</u>	<u>7/7/22</u>	<u>800</u>	<u>22.5</u>	<u>754.9</u>	<u>8.4</u>	<u>8.59</u>	<u>99.3</u>	<u>✓</u>	<u>0.941</u> <u>756</u>	<u>P</u> F	<u>L</u> F
ICV	<u>1</u>	<u>1</u>		<u>22.6</u>	<u>755.0</u>	<u>8.6</u>	<u>8.59</u>	<u>99.3</u>	<u>✓</u>	<u>✓</u>	<u>P</u> F	<u>L</u> F
CCV	<u>1</u>	<u>1</u>	<u>1555</u>	<u>22.5</u>	<u>754.0</u>	<u>8.4</u>	<u>8.42</u>	<u>99.4</u>	<u>✓</u>	<u>✓</u>	<u>P</u> F	<u>L</u> 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.	<u>K March</u>	<u>7/7/22</u>	<u>805</u>	<u>220328A</u>	<u>4/23</u>	<u>1000</u>	<u>1000</u>	<u>P</u> F	<u>L</u> F
ICV	<u>1</u>	<u>1</u>		<u>2112E28</u>	<u>12/23</u>	<u>100</u>	<u>99.7</u>	<u>P</u> F	<u>L</u> F
CCV	<u>1</u>	<u>1</u>	<u>1600</u>	<u>2112E28</u>	<u>12/23</u>	<u>103.14</u>	<u>7100</u>	<u>P</u> F	<u>L</u> 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.	<u>K March</u>	<u>7/7/22</u>	<u>815</u>	<u>210792</u>	<u>2/23</u>	<u>7.00</u>	<u>23.7</u>	<u>7.00</u>	<u>-27.2</u>	<u>P</u> F	<u>L</u> F
Calibr.	<u>1</u>	<u>1</u>		<u>206704</u>	<u>11/22</u>	<u>4.00</u>	<u>23.1</u>	<u>4.00</u>	<u>151.0</u>	<u>P</u> F	<u>L</u> F
Calibr.	<u>1</u>	<u>1</u>		<u>207370</u>	<u>3/23</u>	<u>10.01</u>	<u>23.6</u>	<u>10.01</u>	<u>-203.5</u>	<u>P</u> F	<u>L</u> F
ICV	<u>1</u>	<u>1</u>		<u>207370</u>	<u>3/23</u>	<u>10.01</u>	<u>23.6</u>	<u>10.00</u>	<u>-203.1</u>	<u>P</u> F	<u>L</u> F
CCV	<u>1</u>	<u>1</u>	<u>1605</u>	<u>206704</u>	<u>11/22</u>	<u>4.00</u>	<u>23.5</u>	<u>4.06</u>	<u>147.9</u>	<u>P</u> F	<u>L</u> 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 10 175.9, slope from 4 to 7 178.2 (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)
6/1/22

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: 5/31/22
 If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: Knoth; Date of last verification: 5/31/22

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>K March</u>	<u>7/7/22</u>	<u>825</u>	<u>0.272</u>	<u>0.272</u>	<u>P</u> F	<u>L</u> 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: Scud Bucket

RQ: 2022-06-27-21

Project: HAB x 3

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

6/1/22

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	7/7/22	8:51	23.0	755.4	8.5	8.53	99.4		1.03929	P/F	L/F
ICV			1	23.1	755.3	8.5	8.52	99.5			P/F	L/F
CCV	Katie March		1540	27.4	754.2	7.9	7.79	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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Victoria Schwartz	7/7/22	8:57	220328A	04/23	1000	1000	P/F	L/F
ICV			1	2112E28	12/23	100	100.4	P/F	L/F
CCV	Katie March		1545	2112E28	12/23	100	101.3	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.	Victoria Schwartz	7/7/22	9:13	210792	02/23	7.00	23.8	7.00	-43.0	P/F	L/F
Calibr.				206704	11/22	4.00	23.5	4.00	132.5	P/F	L/F
Calibr.				207370	03/23	10.01	23.6	10.01	-216.3	P/F	L/F
ICV				206704	11/22	4.00	23.6	3.92	136.9	P/F	L/F
CCV	Katie March		1550	207370	03/23	10.01	23.7	10.00	-216.1	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 10 173.3, 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: 6/1/22

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: Crusky; Date of last verification: 6/1/22

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	V. Schwartz	7/7/22	9:29	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: Seminole Co. HABs: Dot, Kathryn, + Griffin