

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- 2021-10-04-28

Project: CR 6 T 2110

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.	Terry Riordan	10/7/21	0816	23.4	756.5	8.5	8.48	99.5	/	1.069	P/F	L/F
ICV	1	1	0818	23.5	756.6	8.5	8.47	99.6	/	/	P/F	L/F
CCV	Katie March	10/7/21	1517	23.4	754.9	8.45	8.45				P/F	L/F
CCV				23.6	754.8	8.4	8.70	102.3	/	/	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.	Terry Riordan	10/7/21	0821	2101278	2/22	1000	1000	P/F	L/F
ICV	1	1	0824	1105657	5/23	100	101.3	P/F	L/F
CCV	Katie March	10/7/21	1524	1105657	5/23	100	101.6	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.	Terry Riordan	10/7/21	0828	210792	2/23	7.00	23.4	7.00	-16.5	P/F	L/F
Calibr.	1	1	0831	210273	2/23	4.00	23.4	4.00	160.6	P/F	L/F
Calibr.	1	1	0835	207370	3/23	10.01	23.4	10.01	-192.2	P/F	L/F
ICV	1	1	0837	207370	3/23	10.01	23.4	10.00	-191.9	P/F	L/F
CCV	Katie March	10/7/21	1527	210273	2/23	4.00	23.5	4.07	157.2	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 10 175.7, slope from 4 to 7 177.1 (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>NA</u>					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-

2021-08-02-19

Project:

SNP

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.	Terry Riordan	10/7/21	0842	23.9	756.6	8.4	8.40	99.5	—	0.955	P/F	L/F
ICV	1	1	0844	23.9	756.6	8.4	8.40	99.6	—	—	P/F	L/F
CCV	Terry Riordan	1	1607	24.0	754.5	8.4	8.37	99.4	—	—	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.	Terry Riordan	10/7/21	0847	210127B	2/22	1000	1000	P/F	L/F
ICV	1	1	0849	1105C57	5/23	100	101.2	P/F	L/F
CCV	Terry Riordan	1	1611	210127C	2/22	50,000	49227	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.	Terry Riordan	10/7/21	0852	210792	2/23	7.00	23.5	7.00	-66.0	P/F	L/F
Calibr.		1	0855	210273	2/23	4.00	23.5	4.00	111.2	P/F	L/F
Calibr.		1	0857	207370	3/23	10.01	23.5	10.01	-247.3	P/F	L/F
ICV		1	0859	207370	3/23	10.01	23.6	10.01	-246.8	P/F	L/F
CCV	Terry Riordan	1	1614	210273	2/23	4.00	23.5	4.15	103.1	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 10 181.3, 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: 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	Terry Riordan	10/7/21	0859	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)

Boldly "X" this box if there are qualified data on this page.

Meter ID: ShrimpTrap

RQ- 2020-09-13-46

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 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.	<u>lizbates</u>	<u>10/7/21</u>	<u>9:30</u>	<u>23.5</u>	<u>756.8</u>	<u>8.4</u>	<u>8.46</u>	<u>99.6</u>	<u>/</u>	<u>1.02432</u>	<u>P/F</u>	<u>L/F</u>
ICV	<u>1</u>	<u>1</u>	<u>1</u>	<u>23.6</u>	<u>756.7</u>	<u>8.4</u>	<u>8.45</u>	<u>99.6</u>	<u>/</u>	<u>/</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u>lizbates</u>	<u>10/7/21</u>	<u>16:00</u>	<u>24.9</u>	<u>754.5</u>	<u>8.2</u>	<u>8.40</u>	<u>101.5</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 mos/cm	Meter Reading μ mos/cm	Pass / Fail	Lab / Field
Calibr.	<u>lizbates</u>	<u>10/7/21</u>	<u>9:40</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>101.8</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u>lizbates</u>	<u>10/7/21</u>	<u>16:20</u>	<u>1105C57</u>	<u>05/23</u>	<u>100</u>	<u>104.4</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>lizbates</u>	<u>10/7/21</u>	<u>9:50</u>	<u>210192</u>	<u>02/23</u>	<u>7.01</u>	<u>23.2</u>	<u>7.01</u>	<u>-76.5</u>	<u>P/F</u>	<u>L/F</u>
Calibr.	<u>1</u>	<u>1</u>	<u>1</u>	<u>210273</u>	<u>02/23</u>	<u>4.00</u>	<u>23.1</u>	<u>4.00</u>	<u>104.9</u>	<u>P/F</u>	<u>L/F</u>
Calibr.	<u>1</u>	<u>1</u>	<u>1</u>	<u>207320</u>	<u>03/23</u>	<u>10.02</u>	<u>23.3</u>	<u>10.02</u>	<u>-25.1</u>	<u>P/F</u>	<u>L/F</u>
ICV	<u>1</u>	<u>1</u>	<u>10:20</u>	<u>210273</u>	<u>02/23</u>	<u>4.00</u>	<u>23.1</u>	<u>4.00</u>	<u>104.9</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u>lizbates</u>	<u>10/7/21</u>	<u>16:42</u>	<u>210792</u>	<u>02/23</u>	<u>7.01</u>	<u>23.5</u>	<u>7.14</u>	<u>-83.1</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 $\pm$ 50;

mV pH 4 Range +180 $\pm$ 50;

mV pH 10 Range -180 $\pm$ 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: 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	<u>lizbates</u>	<u>10/7/21</u>	<u>10:23</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: