

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 Paddy

RQ: 2021-05-10-13

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 3/5/2021

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	5/12/21	06:50	22.9	755.64	8.5	8.51	99.4	—	1.044	P/F	L/F
ICV	↓	↓	↓	23.1	755.4	8.5	8.49	99.4	—	—	P/F	L/F
CCV	↓	↓	1500	24.5	754.4	8.3	8.33	100.0	—	—	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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Terry Riordan	5/12/21	6:50	201026A	11/21	1000	1000	P/F	L/F
ICV	↓	↓	↓	210127A	02/22	100	103.3	P/F	L/F
CCV	↓	↓	1500	210127C	2/22	50,000	49687	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	5/12/21	6:50	202114	05/22	7.00	24.1	7.00	-54.0	P/F	L/F
Calibr.				205283	10/22	4.00	24.2	4.00	122.2	P/F	L/F
Calibr.				203539	06/22	10.01	24.2	10.01	-235.4	P/F	L/F
ICV	↓	↓	↓	203539	6/22	10.01	24.3	9.98	-232.9	P/F	L/F
CCV	↓	↓	1500	205283	10/22	4.00	24.1	4.04	121.3	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 10 179.4, slope from 4 to 7 176.2 (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: 3/5/2021

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: Rnothead; Date of last verification: 12/04/2020

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	5/12/21	6:50	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)

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Meter ID:

Shrimp Trap

Smp:

RQ:

2021-02-22-05

Project:

HAB/SMP

2021-05-03-08

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

3/5/21

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>5/12/21</u>	<u>8:28</u>	<u>24.1</u>	<u>756.1</u>	<u>8.4</u>	<u>8.4</u>	<u>100.0</u>	<u>/</u>	<u>1.04404</u>	<u>P</u> / <u>F</u>	<u>L</u> / <u>F</u>
ICV	<u>1</u>	<u>1</u>	<u>1</u>	<u>24.1</u>	<u>750.0</u>	<u>8.4</u>	<u>8.40</u>	<u>100.0</u>	<u>/</u>	<u>/</u>	<u>P</u> / <u>F</u>	<u>L</u> / <u>F</u>
CCV	<u>T. Riordan</u>	<u>1</u>	<u>15:15</u>	<u>23.8</u>	<u>754.1</u>	<u>8.4</u>	<u>8.42</u>	<u>99.7</u>	<u>-</u>	<u>-</u>	<u>P</u> / <u>F</u>	<u>L</u> / <u>F</u>
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>W. Bates</u>	<u>5/12/21</u>	<u>8:40</u>	<u>201026A</u>	<u>11/21</u>	<u>1000</u>	<u>1000</u>	<u>P</u> / <u>F</u>	<u>L</u> / <u>F</u>
ICV	<u>1</u>	<u>1</u>	<u>1</u>	<u>210127A</u>	<u>2/22</u>	<u>100</u>	<u>103.8</u>	<u>P</u> / <u>F</u>	<u>L</u> / <u>F</u>
CCV	<u>T. Riordan</u>	<u>1</u>	<u>15:15</u>	<u>210127A</u>	<u>2/22</u>	<u>100</u>	<u>103.6</u>	<u>P</u> / <u>F</u>	<u>L</u> / <u>F</u>
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>W. Bates</u>	<u>5/12/21</u>	<u>8:49</u>	<u>202114</u>	<u>6/22</u>	<u>7.00</u>	<u>24.2</u>	<u>7.00</u>	<u>-59.9</u>	<u>P</u> / <u>F</u>	<u>L</u> / <u>F</u>
Calibr.	<u>1</u>	<u>1</u>	<u>1</u>	<u>205283</u>	<u>10/22</u>	<u>4.00</u>	<u>24.4</u>	<u>4.00</u>	<u>121.5</u>	<u>P</u> / <u>F</u>	<u>L</u> / <u>F</u>
Calibr.	<u>1</u>	<u>1</u>	<u>1</u>	<u>203539</u>	<u>6/22</u>	<u>10.01</u>	<u>24.2</u>	<u>10.01</u>	<u>-238.0</u>	<u>P</u> / <u>F</u>	<u>L</u> / <u>F</u>
ICV	<u>1</u>	<u>1</u>	<u>8:59</u>	<u>205283</u>	<u>10/22</u>	<u>4.00</u>	<u>24.2</u>	<u>3.99</u>	<u>121.8</u>	<u>P</u> / <u>F</u>	<u>L</u> / <u>F</u>
CCV	<u>T. Riordan</u>	<u>1</u>	<u>15:15</u>	<u>205283</u>	<u>10/22</u>	<u>4.00</u>	<u>24.3</u>	<u>4.13</u>	<u>113.3</u>	<u>P</u> / <u>F</u>	<u>L</u> / <u>F</u>
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 10 178.1, slope from 4 to 7 181.4 (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: 3/5/21

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: L6924; Date of last verification: 12/4/20

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>5/12/21</u>	<u>8:59</u>	<u>0.272</u>	<u>0.272</u>	<u>P</u> / <u>F</u>	<u>L</u> / <u>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: