

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: 2022-02-21-18 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 11/9/22

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 Marsh</u>	<u>12/5/22</u>	<u>9:10</u>	<u>22.1</u>	<u>760.9</u>	<u>8.7</u>	<u>8.73</u>	<u>100.1</u>	<u>✓</u>	<u>0.947</u>	<u>P/F</u>	<u>Ⓛ F</u>
ICV				<u>22.2</u>	<u>761.0</u>	<u>8.7</u>	<u>8.74</u>	<u>100.2</u>	<u>✓</u>		<u>P/F</u>	<u>Ⓛ F</u>
CCV											<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>K Marsh</u>	<u>12/5/22</u>	<u>9:20</u>	<u>220328A</u>	<u>4/23</u>	<u>1000</u>	<u>1000</u>	<u>P/F</u>	<u>Ⓛ F</u>
ICV				<u>2204030</u>	<u>4/24</u>	<u>100</u>	<u>100.1</u>	<u>P/F</u>	<u>Ⓛ F</u>
CCV								<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>K Marsh</u>	<u>12/5/22</u>	<u>9:30</u>	<u>223156</u>	<u>6/24</u>	<u>7.01</u>	<u>22.4</u>	<u>7.01</u>	<u>-35.7</u>	<u>P/F</u>	<u>Ⓛ F</u>
Calibr.				<u>215478</u>	<u>7/23</u>	<u>4.00</u>	<u>22.4</u>	<u>4.00</u>	<u>143.4</u>	<u>P/F</u>	<u>Ⓛ F</u>
Calibr.				<u>23014</u>	<u>5/23</u>	<u>10.04</u>	<u>22.1</u>	<u>10.04</u>	<u>-213.8</u>	<u>P/F</u>	<u>Ⓛ F</u>
ICV				<u>213014</u>	<u>5/23</u>	<u>10.04</u>	<u>22.4</u>	<u>10.04</u>	<u>-22.2</u>	<u>P/F</u>	<u>Ⓛ F</u>
CCV										<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 10 178.1, slope from 4 to 7 179.1 (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: 11/9/22
 If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: Kristen 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>K Marsh</u>	<u>12/5/22</u>	<u>9:40</u>	<u>0.272</u>	<u>0.272</u>	<u>P/F</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:

Did not sample

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: Shrimpy Trap RQ- 2022-11-21-14 Project: HURR-1AN

- 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 11/9/22

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	12/5/22	8:40	22.0	761.0	8.8	8.75	100.1		1.035 893	P/F	L/F
ICV				22.1	760.8	8.8	8.74	100.2			P/F	L/F
CCV	Victoria Schwach	12/5/22	16:00	21.9	759.7		8.74	99.7	VS		P/F	L/F
CCV			4	22.0	759.7	8.7	8.78	100.5			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.	K. March	12/5/22	8:47	220328A	4/23	1000	1000	P/F	L/F
ICV				2204030	4/24	100	98.9	P/F	L/F
CCV	Victoria Schwach	12/5/22	15:56	2204030	04/24	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.	K. March	12/5/22	8:53	223156	6/24	7.01	22.4	7.01	-40.5	P/F	L/F
Calibr.				215478	7/23	4.00	22.5	4.00	138.2	P/F	L/F
Calibr.				213014	5/23	10.02	22.5	10.02	-216.7	P/F	L/F
ICV				213014	5/23	10.04	22.4	9.98	-214.3	P/F	L/F
CCV	Victoria Schwach	12/5/22	15:53	215478	07/23	4.00	22.3	4.11	131.6	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 10 176.2, slope from 4 to 7 178.7 (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: 11/9/22
 If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: Light 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	12/5/22	9:00	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: