

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

7/2

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

Meter ID: Shrimp Trap

RQ: 2021-11-15-16

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 12/2/21

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	12/15/21	0848	23.1	761.9	8.6	8.59	100.2	/	1.085	Ⓟ/F	L/F
ICV	1		0849	23.1	761.9	8.6	8.59	100.2	/	/	Ⓟ/F	L/F
CCV	Terry Riordan		1430	22.9	759.3	8.6	8.99	104.6	/	/	Ⓟ/F	L/F
CCV	Terry Riordan	12/16/21	0730	22.5	759.6	8.7	8.89	102.7	/	/	Ⓟ/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	12/15/21	0852	210127B	2/22	1000	1000	Ⓟ/F	L/F
ICV	1		0854	2109K87	9/23	100	99.2	Ⓟ/F	L/F
CCV	Terry Riordan		1416	2109K87	9/23	100	99.4	Ⓟ/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	12/15/21	0859	210792	2/23	7.01	22.8	7.01	-86.4	Ⓟ/F	L/F
Calibr.			0905	210273	2/23	4.00	22.9	4.00	94.5	Ⓟ/F	L/F
Calibr.			0908	207370	3/23	10.02	22.8	10.02	-263.6	Ⓟ/F	L/F
ICV			0909	207370	3/23	10.02	22.9	9.99	-262.4	Ⓟ/F	L/F
CCV	Terry Riordan		1419	210273	2/23	4.00	22.9	4.02	92.9	Ⓟ/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 10 177.2, slope from 4 to 7 180.9 (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: 12/2/21

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: light; Date of last verification: 12/1/21

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	12/15/21	0909	0.272	0.273	Ⓟ/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:

DO Failed CCV, ^{1st} passed 2nd CCV ☒

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

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Meter ID: CRAW DADDY

RQ: 2021-11-15-16

Project: SMIP

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 12/2/21

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	12/15/21	0824	22.7	761.8	8.7	8.65	100.2	/	0.965	P/F	L/F
ICV	1	1	0825	22.8	761.8	8.6	8.64	100.3	/	/	P/F	L/F
CCV	Katie March	1	1510	22.5	754.1	8.6	8.78	101.4	/	/	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.	Terry Riordan	12/15/21	0829	210127B	2/22	1000	1000	P/F	L/F
ICV	1	1	0832	2109K87	9/23	100	99.2	P/F	L/F
CCV	Katie March	1	1515	210127C	2/22	50,000	49,394	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	12/15/21	0834	210792	2/23	7.01	22.9	7.01	-82.0	P/F	L/F
Calibr.	1	1	0837	210273	2/23	4.00	22.9	4.00	92.0	P/F	L/F
Calibr.	1	1	0843	207370	3/23	10.03	22.8	10.03	-258.9	P/F	L/F
ICV	1	1	0845	207370	3/23	10.02	22.9	10.02	-258.2	P/F	L/F
CCV	Katie March	1	1520	210273	2/23	4.00	22.9	4.05	89.7	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 10 176.9, slope from 4 to 7 174.0 (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: 12/2/21

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: knothead; Date of last verification: 12/1/21

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	12/15/21	0845	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: