

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: 2021-06-28-58

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 6/4/21

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.	M. Borden	7/1/21	0653	23.2	755.0	8.5	8.49	99.3		1.00	P/F	L/F
ICV	1	7/1/21	0858	23.3	755.1	8.5	8.48	99.4			P/F	L/F
CCV	K. March	7/1/21	1445	23.0	754.4	8.5	8.59	100.2	—	—	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.	MB	7/1	0702	201026A	1/1/21	1000	1000	P/F	L/F
ICV	1	7/1	0722	210127A	2/1/22	100	103.5	P/F	L/F
CCV	K. March	7/1/21	1450	210127A	2/1/22	100	103.7	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.	MB	7/1	0707	202114	5/1/22	7.01	23.6	7.01	58.3	P/F	L/F
Calibr.	1	7/1	0711	205283	10/1/22	4.00	23.6	4.00	119.5	P/F	L/F
Calibr.	1	7/1	0714	203539	6/1/22	10.02	23.7	10.02	-236.1	P/F	L/F
ICV	1	7/1	0717	203539	6/1/22	10.01	23.5			P/F	L/F
CCV	K. March	7/1/21	1455	205283	10/1/22	4.00	23.7	4.20	108.2	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 10 177.8, slope from 4 to 7 177.8 (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: 6/4/21

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: Knothout 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	K. March	7/1/21				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: SHARP T100

RQ: 2021-06-28-57

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 _____

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.	M. Bearden	7/1/21	0652	24.1	755.1	8.3	8.36	99.7 100.9 MB		104	P / F	L / F
ICV	↓	↓	0655	24.1	755.2	8.3	8.37	99.6			P / F	L / F
CCV	↓	↓	1522	24.8	754.1	8.2	8.26	99.6			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.	MB	7/1	0700	210127C	2/22	50000	50000	P / F	L / F
ICV	↓	↓	0719	210266	11/21	1000	1022	P / F	L / F
CCV	↓	↓	1625	21026B	11/21	10000	10076	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.	MB	7/1	0705	202114	5/22	7.01	23.6	7.01	-63.2	P / F	L / F
Calibr.	↓	↓	0709	205283	10/22	4.00	23.6	4.00	113.2	P / F	L / F
Calibr.	↓	↓	0713	203539	6/22	10.02	23.6	10.02	-242.0	P / F	L / F
ICV	↓	↓	0715	203539	6/22	10.0	23.5	10.02		P / F	L / F
CCV	↓	↓	1529	202114	5/22	7.0	23.7	7.11		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 10 178.8, slope from 4 to 7 176.4 (both must be between 165 and 180 mV)

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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						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: