

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: Crow Daddy RQ: 2020-08-24-48 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.	Natalie Ayala	8/24/20	654	23.8	753.9	8.4	8.40	99.8	✓	1.059	P / F	L / F
ICV	↓	8/24/20	0657	23.8	753.8	8.4	8.43	99.8	✓	✓	P / F	L / F
CCV	Liz Bates	8/24/20	15:42	24.3	753.4	8.3	8.48	101.3	✓	✓	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.	Natalie Ayala	8/24/20	0709	191003	10/20	1000	1000	P / F	L / F
ICV	↓	8/24/20	0710	191106	11/20	100	103.0	P / F	L / F
CCV	Liz Bates	8/24/20	15:52	191106	11/20	100	104.3	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.	Natalie Ayala	8/24/20	0712	188510	01/21	7.00	24.6	7.00	-18.0	P / F	L / F
Calibr.	↓	↓	↓	1932475/21	11/21	4.00	23.9	4.00	159.1	P / F	L / F
Calibr.	↓	↓	↓	200109A	07/21	10.00	24.7	10.00	-11.2	P / F	L / F
ICV	Natalie Ayala	8/24/20	0721	200109A	07/21	10.01	24.4	10.00	-191.2	P / F	L / F
CCV	Liz Bates	8/24/20	15:59	200052	02/22	4.00	24.1	3.96	160.1	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 10 173.2, 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: 8/15/2020

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: Knott's Date of last verification: 4/2/20

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	Liz Bates	08/24/20	15:39	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:

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

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Meter ID: ShrimpTrap

RQ- 2020-08-24-49

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 05/15/2020

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.	Natalie Ayala	8/24/20	0700	24.6	753.8	8.3	8.30	99.8	✓	1.049	P / F	L / F
ICV	↓	↓	0702	24.6	753.8	8.3	8.31	99.8	✓	✓	P / F	L / F
CCV	liz Bates	8/24/20	15:33	25.2	753.5	8.2	8.25	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.	Natalie Ayala	8/24/20	0706	191003	10/20	1000	1000	P / F	L / F
ICV	↓	↓	↓	191106	11/20	100	101.0	P / F	L / F
CCV	liz Bates	8/24/20	15:35	191106	11/20	100	104.9	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.	Natalie Ayala	8/24/20	0710	188510	01/21	7.00	24.6	7.00	-79.0	P / F	L / F
Calibr.	↓	↓	↓	193247	05/21	4.00	23.9	4.00	154.2	P / F	L / F
Calibr.	↓	↓	↓	200109A	07/21	10.00	24.7	10.00	-186.9	P / F	L / F
ICV	Natalie Ayala	8/24/20	0720	200109A	07/21	10.00	24.7	9.98	-187.1	P / F	L / F
CCV	liz Bates	8/24/20	15:37	193247	05/21	4.00	23.8	4.00	154.5	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 10 167.9, slope from 4 to 7 173.2 (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: 04/22/2020

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: 11944; Date of last verification: 07/10/20

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	liz Bates	08/24/20	15:39	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: