

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: SND BUCKET

RQ: n/a

Project: TREND

CRGT 2205

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 3/3/22

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.	Lif Boman	05/10/22	8:20	22.1	756.7	8.5	8.52	99.6	/	1.0388	P/F	D/F
ICV				23.2	756.8	8.5	8.52	99.5	/	/	P/F	D/F
CCV	Victoria Schwartz		15:45	23.7	755.7	8.4	8.37	98.8	/	/	P/F	D/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 mos/cm	Meter Reading μ mos/cm	Pass / Fail	Lab / Field
Calibr.	Lif Boman	05/10/22	8:35	1105E62	05/23	1000	1000	P/F	D/F
ICV				2112E28	12/23	100	102.7	P/F	D/F
CCV	Victoria Schwartz		15:49	2112E28	12/23	100	96.5	P/F	D/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.	Lif Boman	05/10/22	8:55	210792	02/23	7.01	22.8	7.01	-33.0	P/F	D/F
Calibr.				206704	11/22	4.00	23.3	4.00	145.4	P/F	D/F
Calibr.				207370	03/23	10.01	23.5	10.01	-209.2	P/F	D/F
ICV				206704	11/22	4.00	23.2	4.00	145.1	P/F	D/F
CCV	Victoria Schwartz		15:52	206704	11/22	4.00	23.2	4.05	142.2	P/F	D/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 10 174.2, slope from 4 to 7 178.4 (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: _____

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: Readings only

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

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Meter ID: STAMP TRAP

RQ-

2022-05-09-21
2022-05-09-19

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.	<u>Leif Boman</u>	<u>5/10/22</u>	<u>8:15</u>	<u>23.1</u>	<u>756.8</u>	<u>8.5</u>	<u>8.52</u>	<u>99.6</u>	<u>/</u>	<u>1.0598</u>	<u>P/F</u>	<u>L/F</u>
ICV	<u>1</u>	<u>1</u>	<u>1</u>	<u>23.2</u>	<u>756.7</u>	<u>8.5</u>	<u>8.50</u>	<u>99.8</u>	<u>/</u>	<u>/</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u>UrBates</u>	<u>5/10/22</u>	<u>16:09</u>	<u>25.4</u>	<u>755.6</u>	<u>8.2</u>	<u>8.21</u>	<u>100.2</u>	<u>/</u>	<u>/</u>	<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>Leif Boman</u>	<u>05/10/22</u>	<u>8:15</u>	<u>1105E62</u>	<u>05/23</u>	<u>1000</u>	<u>1000</u>	<u>P/F</u>	<u>L/F</u>
ICV	<u>1</u>	<u>1</u>	<u>1</u>	<u>2112E28</u>	<u>12/23</u>	<u>100</u>	<u>96.7</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u>UrBates</u>	<u>5/10/22</u>	<u>16:06</u>	<u>2112E28</u>	<u>12/23</u>	<u>100</u>	<u>98.2</u>	<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>Leif Boman</u>	<u>05/10/22</u>	<u>8:15</u>	<u>210792</u>	<u>02/23</u>	<u>7.01</u>	<u>23.8</u>	<u>7.01</u>	<u>-22.0</u>	<u>P/F</u>	<u>L/F</u>
Calibr.	<u>1</u>	<u>1</u>	<u>1</u>	<u>206704</u>	<u>11/22</u>	<u>4.00</u>	<u>23.4</u>	<u>4.00</u>	<u>161.0</u>	<u>P/F</u>	<u>L/F</u>
Calibr.	<u>1</u>	<u>1</u>	<u>1</u>	<u>207370 LB</u> <u>200704</u>	<u>03/23</u>	<u>10.01</u>	<u>23.6</u>	<u>10.01</u>	<u>-198.3</u>	<u>P/F</u>	<u>L/F</u>
ICV	<u>1</u>	<u>1</u>	<u>1</u>	<u>206704</u>	<u>11/22</u>	<u>4.00</u>	<u>23.4</u>	<u>4.00</u>	<u>160.9</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u>UrBates</u>	<u>5/10/22</u>	<u>16:10</u>	<u>210792</u>	<u>02/23</u>	<u>7.01</u>	<u>23.4</u>	<u>7.13</u>	<u>-270</u>	<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 _____, slope from 4 to 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:

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: Light 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	<u>Leif Boman</u>	<u>05/10/22</u>	<u>8:15</u>	<u>.272</u>	<u>0.272</u>	<u>P/F</u>	<u>L/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: