

used as "field meter" on 12/13/21

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: ELSA

RQ-

Project: Clapboard Creek

BMAP

- 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 11/24/21

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.	Katrin Villinger	12/13/21	845	17.4	769.4	9.7	—	101.2	—	1.01133	(P) F	(L) F
ICV	↓	↓	850	17.7	769.4	9.6	9.64	101.3	—	1.01133	(P) F	(L) F
CCV	↓	1/6/22	1622	22.35	759.5	8.7	8.62	99.4	—	1.01133	(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.	Katrin Villinger	12/13/21	900	210917C	9/22	50000	50000	(P) F	(L) F
ICV	↓	↓	915	211122A	12/22	15000	14918	(P) F	(L) F
CCV	↓	1/6/22	1634	211122B	12/22	1413	1407	(P) F	(L) F
CCV	↓	↓	1628	210917C	9/22	50000	49670	(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.						7.				P / F	L / F
Calibr.						4.				P / F	L / F
Calibr.						10.				P / F	L / F
ICV										P / F	L / F
CCV										P / F	L / F
CCV										P / F	L / F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 $\pm$ 50;

mV pH 4 Range +180 $\pm$ 50;

mV pH 10 Range -180 $\pm$ 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: 11/24/2021

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	Katrin Villinger	12/13/21	915	0.000	0.00	(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:

SECN Coastal Water Quality Monitoring
YSI Datasonde Datasheet v1.42 (11/2019)— RETRIEVAL

Station Name

TIMUclap02

Retrieval

In situ Sonde # (SN)

ELSA

Retrieved By

Kullinger, K. Appleby

Retrieval Date

1/5/22

Retrieval Time

1357

(EST)

Field Meter # (SN)

Moe

Field Meter Calibration Date

1/5/22

On Site Readings

	Temp (°C)	Baro. Pres. (mmHg)	ODO (% Sat.)	ODO (mg/l)	Sp. Cond. (mS/cm)	Salinity (psu)	pH	Turb. (FNU)	Depth (m)	Chla (µg/l)	BGA (µg/l)
Field Meter	18.77	760.8	95.6	7.57	44.148	28.57	8.08	/	2.940	/	/
In situ Sonde	18.81	/	93.9	7.38	44.217	28.61	7.38	/	3.649	/	/

Fouling presence: Please record type of fouling AND amount (e.g. A, B, E, / H). Types A= Algae, B= Barnacles, C= Crabs, E= Eggs, F= Fish, O= Other, N= none, S = Sediment / Amount H=Heavy, M= Moderate, L= Light, N= None

Sonde/Guard: C External Screen: — Temp/Cond: N

ODO Probe: N pH Probe: — Turbidity: —

Post Deployment

Post Deployment Reading Date

1/6/22

Battery Voltage

2.63

Central Wiper Parking 180°

Y / N

Barometric Pressure (mmHg)

759.5

Conductivity Cell Constant

1.011133

pH7 (mv)

/

pH10 (mv)

/

pH Slope

/

pH4 (mv)

/

Parameter	Temp (°C)	Sp. Cond. (mS/cm)	Depth (m)	ODO (% Sat.)	ODO (mg/l)	pH7	pH10
Standard	22.95	50.000	0.00	100	8.7	/	/
Measured (clean sensors)	22.95	49.670	0.00	99.4	8.62	/	/

Parameter	pH4 (check)	Turbidity Low (FNU)	Turbidity High (FNU)	Chl Low (µg/l)	Chl High (µg/l)	BGA-PE Low (µg/l)	BGA-PE High (µg/l)
Standard	/	/	/	/	/	/	/
Measured (clean sensors)	/	/	/	/	/	/	/

Any Probe Malfunctions?

Y (N)

If Y, describe in the comments.

File Name:

TIMUclap02-2021

(Station name _YYYYMMDD)

Comments:

Field meter depth not same as in situ due to
swift current

Recorded By

Kim Appleby

Computer Entry By / Date

Certified By / Date

SECN Coastal Water Quality Monitoring
Datasonde Datasheet v1.42 (11/2019)—DEPLOYMENT

Station Name

TIMUclap02

Calibration / Pre-Deployment

Instrument (Sonde) # (SN) FLSA
 Calibration Date 12/13/21 Calibrated By Katrin Villinger
 Battery Voltage Pre-Calibration 2.87 Battery Voltage >5.3 Y / (N) Battery Voltage Post-Calibration 2.87
 Central Wiper Replaced Y / (N) Central Wiper Parking 180° (Y) / N (Ex. 3)
 Barometric Pressure (mmHg) 769.4 Conductivity Cell Constant 0.465803 ODO Gain 1.01133
 pH7 (mv) / pH10 (mv) / pH4 (mv)(check) / pH Slope /

Parameter	Temp (°C)	Sp. Cond. (mS/cm)	Depth (m)	ODO (% Sat.)	ODO (mg/l)	pH7	pH10
Standard	<u>18.69</u>	<u>50.000</u>	<u>0.000</u>	<u>101.2</u>	<u>9.6</u>	<u>/</u>	<u>/</u>
Measured	<u>18.77</u>	<u>50.005</u>	<u>0.000</u>	<u>101.4</u>	<u>9.64</u>	<u>/</u>	<u>/</u>
Calibrated	<u>/</u>	<u>50.000</u>	<u>0.000</u>	<u>101.2</u>	<u>N/A</u>	<u>/</u>	<u>/</u>

Parameter	pH4 (check)	Turbidity Low (FNU)	Turbidity High (FNU)	Chl Low (µg/l)	Chl High (µg/l)	BGA-PC Low (µg/l)	BGA-PC High (µg/l)
Standard	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
Measured	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
Calibrated	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>

Deployment

Deployed By: Katrin Villinger / Kim Applby File Name: CC_20211213
 (Station name _YYYYMMDD)
 Sonde Start Date: 12/13/21 Sonde Start Time: 12:15 Eastern Standard Time (EST)
 Actual Deployment Date: 12/13/21 Actual Time Placed in Water: 12:15 (EST)

Comments:

Site Observations: Fish Kill ☐ Algal Bloom ☐ Debris ☐ Hurricane / Tropical Storm ☐ Other ☐

Observation Description:

Recorded By: Katrin Villinger Computer Entry By / Date: _____

Certified By / Date: _____