

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: BMAP Clapboard

- 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 2/14/23 3/6/23

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>Kvillings</u>	<u>3/23/23</u>	<u>902</u>	<u>21.4</u>	<u>767.7</u>	<u>8.9</u>	<u>—</u>	<u>101.0</u>	<u>—</u>	<u>1.004</u>	<u>(P) F</u>	<u>(L) F</u>
ICV			<u>907</u>	<u>21.5</u>	<u>767.7</u>	<u>8.9</u>	<u>8.93</u>	<u>101.1</u>	<u>—</u>	<u>1.004</u>	<u>(P) F</u>	<u>(L) F</u>
CCV		<u>4/3/23</u>	<u>1605</u>	<u>21.8</u>	<u>760.5</u>	<u>8.8</u>	<u>8.66</u>	<u>96.6</u>	<u>—</u>	<u>1.004</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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	<u>Kvillings</u>	<u>3/23/23</u>	<u>910</u>	<u>220719C</u>	<u>7/23</u>	<u>50,000</u>	<u>50000</u>	<u>(P) F</u>	<u>(L) F</u>
ICV			<u>915</u>	<u>230131D</u>	<u>2/24</u>	<u>15,000</u>	<u>14955</u>	<u>(P) F</u>	<u>(L) F</u>
CCV		<u>4/3/23</u>	<u>1610</u>	<u>220719C</u>	<u>7/23</u>	<u>50000</u>	<u>49,954</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>7.</u>				<u>P / F</u>	<u>L / F</u>
Calibr.						<u>4.</u>				<u>P / F</u>	<u>L / F</u>
Calibr.						<u>10.</u>				<u>P / F</u>	<u>L / F</u>
ICV										<u>P / F</u>	<u>L / F</u>
CCV										<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: 3/6/23

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	<u>Kvillings</u>	<u>3/23/23</u>	<u>916</u>	<u>0.000</u>	<u>0.000</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:

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

Station Name

TIMUclap02

Calibration / Pre-Deployment

Instrument (Sonde) # (SN) ELSA
 Calibration Date 3/23/23 Calibrated By Kvillinger
 Battery Voltage Pre-Calibration 2.63 Battery Voltage >5.3 Y/N Battery Voltage Post-Calibration 2.59
 Central Wiper Replaced Y/N Central Wiper Parking 180° YY N
 Barometric Pressure (mmHg) 768 Conductivity Cell Constant 0.47057 ODO Gain 1.004
 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>21.32</u>	<u>50.000</u>	<u>0.000</u>	<u>100.0</u>	<u>8.9</u>	<u>/</u>	<u>/</u>
Measured	<u>21.393</u>	<u>50.006</u>	<u>0.000</u>	<u>101.1</u>	<u>8.93</u>	<u>/</u>	<u>/</u>
Calibrated	<u>/</u>	<u>50.000</u>	<u>0.000</u>	<u>101.0</u>	<u>-</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: Kvillinger, Katherine Halbert File Name: CC03232023
 (Station name_YYYYMMDD)
 Sonde Start Date: 3/23/23 Sonde Start Time: 1057 Eastern Standard Time (EST)
 Actual Deployment Date: 3/23/23 Actual Time Placed in Water: 1057 (EST)

Comments:

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

Observation Description:

Recorded By: Kvillinger Computer Entry By / Date: _____

Certified By / Date: _____

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

Station Name

TIMUclap02

Retrieval

In situ Sonde # (SN)

E18A

Retrieved By

Kuilinges, K Halbert

Retrieval Date

4/3/23

Retrieval Time

1136 (EST)

Field Meter # (SN)

L10

Field Meter Calibration Date

4/3/23

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	22.63	762.6	88.5	6.71	35.67	22.48	X	X	4.635	X	X
In situ Sonde	22.62	762.6	88.0	6.68	35.421	22.34	X	X	3.705	X	X

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: E, B, A, C, O External Screen: Temp/Cond:

ODO Probe: pH Probe: Turbidity:

Post Deployment

Post Deployment Reading Date

4/3/23

Battery Voltage

2.49

Central Wiper Parking 180°

Y / N

Barometric Pressure (mmHg)

760.4

Conductivity Cell Constant

0.470157

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	/	50.000	0.000	100.0	8.8	X	X
Measured (clean sensors)	/	49.954	0.000	98.6	8.66	X	X

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

File Name: CC03232023

If Y, describe in the comments.

(Station name _YYYYMMDD)

Comments:

Wist thermometers out getting verified. no temp post deploy readings.

Recorded By Kuilinges

Computer Entry By / Date

Certified By / Date