

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: L110

RQ:

Project: BMAP Clipboard

- 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 5/23/23

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.	K. Villinger	6/12/23	913	22.94	758.5	8.6	—	99.8	—	1.038	(P) F	(L) F
ICV		↓	915	22.94	758.5	8.6	8.57	99.9	—	1.038	(P) F	(L) F
CCV		6/24/23	1025	22.15	757.8	8.7	8.56	98.6	—	1.038	(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.	K. Villinger	6/12/23	919	230131C	2/24	50000	50000	(P) F	(L) F
ICV		↓	925	230131D	2/24	15000	14978	(P) F	(L) F
CCV		6/24/23	1028	230131C	2/24	50000	49950	(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.						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: 5/30/23

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	K. Villinger	6/12/23	926	0.000	0.000	(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
Datasonde Datasheet v1.42 (11/2019)—DEPLOYMENT

Station Name

TIMUclap02

Calibration / Pre-Deployment

Instrument (Sonde) # (SN) L10
 Calibration Date 6/12/23 Calibrated By Kvillings
 Battery Voltage Pre-Calibration 3.05 Battery Voltage >5.3 Y/N Battery Voltage Post-Calibration 3.02
 Central Wiper Replaced Y/N Central Wiper Parking 180° Y/N
 Barometric Pressure (mmHg) 758.5 Conductivity Cell Constant 04678 ODO Gain 1.038
 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>22.80</u>	<u>50000</u>	<u>0.000</u>	<u>100.0</u>	<u>8.6</u>	<u>/</u>	<u>/</u>
Measured	<u>22.84</u>	<u>50005</u>	<u>0.000</u>	<u>99.9</u>	<u>8.57</u>	<u>/</u>	<u>/</u>
Calibrated	<u>/</u>	<u>50.000</u>	<u>0.000</u>	<u>99.8</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: Kvillings, Niki Barham File Name: CC06122023
 (Station name _YYYYMMDD)
 Sonde Start Date: 6/12/23 Sonde Start Time: 1115 Eastern Standard Time (EST)
 Actual Deployment Date: 6/12/23 Actual Time Placed in Water: 1107 (watch time) (EST)

Comments:

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

Observation Description:

Recorded By: Kvillings 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)

L110

Retrieved By

K. Villings N. Barham

Retrieval Date

6/26/23

Retrieval Time

1125

(EST)

Field Meter # (SN)

EISA

Field Meter Calibration Date

6/26/23

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	27.57	760.0	80.7	5.63	36.000	22.75	X	X	5.062	X	X
In situ Sonde	27.482	760.0	79.0	5.47	37339.7	23.59	X	X	3.521	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: A, C, B, D External Screen: Temp/Cond:

ODO Probe: pH Probe: Turbidity:

Post Deployment

Post Deployment Reading Date

6/26/23

Battery Voltage

2.74

Central Wiper Parking 180°

(Y) N

Barometric Pressure (mmHg)

757.8

Conductivity Cell Constant

0.41076

pH7 (mv)

X

pH10 (mv)

X

pH Slope

X

pH4 (mv)

X

Parameter	Temp (°C)	Sp. Cond. (mS/cm)	Depth (m)	ODO (% Sat.)	ODO (mg/l)	pH7	pH10
Standard	21.1	50000	0.000	100.0	8.7	X	X
Measured (clean sensors)	21.25	49.950	0.000	98.6	8.56	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	X	X	X	X	X	X	X
Measured (clean sensors)	X	X	X	X	X	X	X

Any Probe Malfunctions?

Y / N

If Y, describe in the comments.

File Name:

CC06/26/23

(Station name _YYYYMMDD)

Comments:

Recorded By

K. Villings

Computer Entry By / Date

Certified By / Date