

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 CM

- 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 2/9/23

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.	Katon Villages	3/6/23	911	21.7	763.0	8.8	—	100.4	—	1.048	(P) F	(L) F
ICV	↓		914	21.8	763	8.8	8.82	100.5	—	1.048	(P) F	(L) F
CCV	↓	3/23/23	1507	21.2	766	9.0	8.74	98.7	—	1.048	(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.	KVillages	3/6/23	917	220719C	7/2023	50000	50000	(P) F	(L) F
ICV	↓		922	230131D	2/24	15000	14939	(P) F	(L) F
CCV	↓	3/23/23	1509	220719C	7/23	50000	50009	(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.		3/6/23				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 ± 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: 2/9/23

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	KVillages	3/6/23	924	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) L110
 Calibration Date 3/6/23 Calibrated By K. Villinger
 Battery Voltage Pre-Calibration 2.44 Battery Voltage >5.3 Y / N Battery Voltage Post-Calibration 2.41
 Central Wiper Replaced Y / N Central Wiper Parking 180° Y / N
 Barometric Pressure (mmHg) 762.9 Conductivity Cell Constant 0.466591 ODO Gain 1.048
 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>21.68</u>	<u>50.000</u>	<u>0.000</u>	<u>100.0</u>	<u>8.8</u>		
Measured	<u>21.81</u>	<u>50.001</u>	<u>0.000</u>	<u>100.5</u>	<u>8.82</u>		
Calibrated		<u>50.000</u>	<u>0.000</u>	<u>100.4</u>	<u>8.8</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							
Measured							
Calibrated							

Deployment

Deployed By: K. Villinger, Katherine Halbert File Name: CC03062023
 (Station name_YYYYMMDD)
 Sonde Start Date: 3/6/23 3/7/23 Sonde Start Time: 10:30 Eastern Standard Time (EST)
 Actual Deployment Date: 3/6/23-3/7/23 Actual Time Placed in Water: 10:28 (EST)

Comments:

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

Observation Description:

Recorded By: K. Villinger 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. Killinger, K. Halbert

Retrieval Date

3/23/23

Retrieval Time

1055 (EST)

Field Meter # (SN)

ELSA

Field Meter Calibration Date

3/23/23

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	<u>18.560</u>	<u>768.6</u>	<u>94.8</u>	<u>7.39</u>	<u>47.125</u>	<u>30.71</u>	<u>7.89</u>	<u>NA</u>	<u>5.373</u>	<u>NA</u>	<u>NA</u>
In situ Sonde	<u>18.576</u>	<u>768.6</u>	<u>94.8</u>	<u>7.39</u>	<u>47.496</u>	<u>30.6</u>	<u>NA</u>	<u>NA</u>	<u>4.63</u>	<u>NA</u>	<u>NA</u>

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: 0, A, B External Screen: _____ Temp/Cond: _____

ODO Probe: _____ pH Probe: _____ Turbidity: _____

Post Deployment

Post Deployment Reading Date

3/23/23

Battery Voltage

2.38

Central Wiper Parking 180°

Y / N

Barometric Pressure (mmHg)

766

Conductivity Cell Constant

0.466591

pH7 (mv)

NA

pH10 (mv)

NA

pH Slope

NA

pH4 (mv)

NA

Parameter	Temp (°C)	Sp. Cond. (mS/cm)	Depth (m)	ODO (% Sat.)	ODO (mg/l)	pH7	pH10
Standard	<u>21.65</u>	<u>50.000</u>	<u>0.000</u>	<u>100.0</u>	<u>9.0</u>	<u>NA</u>	<u>NA</u>
Measured (clean sensors)	<u>21.63</u>	<u>50.009</u>	<u>0.000</u>	<u>98.7</u>	<u>8.74</u>	<u>NA</u>	<u>NA</u>

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	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>
Measured (clean sensors)	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>

Any Probe Malfunctions?

Y / N

File Name:

CC03042023

If Y, describe in the comments.

(Station name _YYYYMMDD)

Comments:

Recorded By

Killinger

Computer Entry By / Date

Certified By / Date