

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

Station Name

TIMUclap02

Calibration / Pre-Deployment

Instrument (Sonde) # (SN) L10
 Calibration Date 12/11/23 Calibrated By KVillinger
 Battery Voltage Pre-Calibration 2.98 Battery Voltage >5.3 Y N Battery Voltage Post-Calibration 2.99
 Central Wiper Replaced Y N Central Wiper Parking 180° Y N
 Barometric Pressure (mmHg) 764.4 Conductivity Cell Constant 1.05 0.46 ODO Gain 1.049
 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>21.96</u>	<u>50.000</u>	<u>0.000</u>	<u>100.0</u>	<u>9.1</u>		
Measured	<u>21.96</u>	<u>49.920</u>	<u>0.000</u>	<u>100.5</u>	<u>9.12</u>		
Calibrated	<u>/</u>	<u>50.000</u>	<u>0.000</u>	<u>100.6</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>						
Measured	<u>/</u>						
Calibrated	<u>/</u>						

Deployment

Deployed By: KVillinger & Parrish File Name: CC12112023
 (Station name _YYYYMMDD)
 Sonde Start Date: 12/11/23 Sonde Start Time: 1115 Eastern Standard Time (EST)
 Actual Deployment Date: 12/11/23 Actual Time Placed In Water: 1118 (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)

L10

Retrieved By

K. Williams

Retrieval Date

1/18/24

Retrieval Time

1020

(EST)

Field Meter # (SN)

PRODSS 551CH

Field Meter Calibration Date

1/18/24

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	14.4	767.4	93.6	8.34	35375	22.37	X	X	3.662	X	X
In situ Sonde	12.9	767	88.6	8.32	30248.1	18.78	X	X	3.763	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: B, C External Screen: B, C Temp/Cond:

ODO Probe: pH Probe: Turbidity:

Post Deployment CCV - Redeploy

Post Deployment Reading Date

1/18/24

Battery Voltage

2.31

Central Wiper Parking 180°

(Y/N)

Barometric Pressure (mmHg)

767.1

Conductivity Cell Constant

0.465

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	—	X	X
Measured (clean sensors)	—	50.155	0.081	100.7	9.81	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

File Name:

CC12112023

If Y, describe in the comments.

(Station name _YYYYMMDD)

Comments:

Other sonde need maintenance. L10 was pulled, ccv'd, field cleaned & re-deployed with new batteries.

Recorded By

Katrin Williams

Computer Entry By / Date

Certified By / Date

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: BNAPEM CAGROX

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 9/8/23

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.	KVillmeyer	12/11/23	911	19.9	764.4	9.2	—	100.6	—	1.049	P/F	L/F
ICV			913	20.1	764.4	9.1	9.12	100.5	—	1.049	P/F	L/F
CCV		1/18/24	1017	16.5	767.1	9.86	9.81	100.7	—	1.049	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.	KVillmeyer	12/11/23	916	230612C	6/24	50000	50000	P/F	L/F
ICV			922	231110	11/24	15000	14,950	P/F	L/F
CCV		1/18/24	1050	230612C	6/24	50000	50155	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 ± 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: 9/8/23

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	KVillmeyer	12/11/23	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: 1/18/24 - sonde was ccv'd & re-deployed. No calibration, will be ccv'd again.

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: Shitch ProDSS

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 12/18/23

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	1/18/24	757	20.9	766.5	9.0	—	100.9	—	1.064	(P) F	(L) F
ICV			759	20.7	766.4	9.0	9.04	100.8	—	1.064	(P) F	(L) F
CCV	K. Halbert	1/18/24	1346	21.0	763.7	9.0	8.98	100.1	—	1.064	(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.	K Villinger	1/18/24	8:02	230612C	6/24	50000	50000	(P) F	(L) F
ICV			811	2306110	11/24	15000	15077	(P) F	(L) F
CCV	K-Halbert	1/18/24	1354	230612C	6/24	50000	49864	(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 ± 50 ; mV pH 4 Range +180 ± 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: 12/18/23

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	1/18/24	816	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: