

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

Station Name

TIMUclap02

Calibration / Pre-Deployment

Instrument (Sonde) # (SN) 3AD
 Calibration Date 12/23/20 Calibrated By Kim Appleby
 Battery Voltage Pre-Calibration 11.5 Battery Voltage >5.3 ☒ Y ☐ N Battery Voltage Post-Calibration 11.6
 Central Wiper Replaced ☒ Y ☐ N Central Wiper Parking 180° ☒ Y ☐ N
 Barometric Pressure (mmHg) 767.8 Conductivity Cell Constant 4.98204 ODO Gain 1.0061
 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>20.59</u>	<u>50.00</u>	<u>0.00</u>	<u>100.0</u>	<u>9.10</u>		
Measured	<u>20.59</u>	<u>50.05</u>	<u>0.00</u>	<u>101.9</u>	<u>9.14</u>		
Calibrated		<u>50.00</u>	<u>0.00</u>	<u>101.7</u>	<u>9.14</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: Kim Appleby + Brian Davis File Name: TIMUclap - 20201223
 (Station name _YYYYMMDD)
 Sonde Start Date: 12/23/20 Sonde Start Time: 1415 Eastern Standard Time (EST)
 Actual Deployment Date: 12/23/20 Actual Time Placed in Water: 1402 (EST)

Comments:

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

Observation Description:

Recorded By: Kim Appleby 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)

3AD

Retrieved By

Kim Appleby

Retrieval Date

1/4/2021

Retrieval Time

1211

(EST)

Field Meter # (SN)

9AF

Field Meter Calibration Date

1/4/21

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	16.28	/	93.6	7.96	37.09	23.54	/	/	3.811	/	/
In situ Sonde	16.25	/	90.5	7.99	28.21	17.42	/	/	3.754	/	/

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: N External Screen: - Temp/Cond: N

ODO Probe: N pH Probe: - Turbidity: -

Post Deployment

Post Deployment Reading Date

1/5/21

Battery Voltage

11.4

Central Wiper Parking 180°

☒ Y / ☐ N

Barometric Pressure (mmHg)

765.5

Conductivity Cell Constant

4.98204

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	22.21	50.00 50.0004	0.00	100.0	8.8	/	/
Measured (clean sensors)	22.16	49.93	-0.01	102.7	8.92	/	/

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_20201223

(Station name_YYYYMMDD)

Comments:

Recorded By Kim Appleby Computer Entry By / Date _____

Certified By / Date _____

used as "field meter" on 12/23/20

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: 3AD

RQ:

Project: Lapboard

- 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

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.	Kim Appleby	12/23/20	1008	20.36	767.8	9.1	9.14	101.7	-	1.01388	P/F	L/F
ICV	↓	↓	1009	20.59	767.8	9.1	9.14	101.9	-	1.01388	P/F	L/F
CCV	↓	1/4/21	1731	22.16	765.5	8.8	8.92	102.7	-	1.01388	P/F	L/F
CCV		1/5/21									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.	Kim Appleby	12/23/20	1010	200707A	4/2021	50,000	50,000	P/F	L/F
ICV	↓	↓	1012	200407B	4/2021	20,000	19,410	P/F	L/F
CCV	↓	1/4/21	1732	200407A	4/2021	50,000	49,930	P/F	L/F
CCV		1/5/21						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:

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	Kim Appleby	12/23/20	1010	0.00	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:

used as "field meter" on 01/04/21

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: **9AE**

RQ: **_____**

Project: **Clayboard**

- 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 _____

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.	Kim Appleby	1/4/21	920	22.51	763.3	8.7	8.66	100.7	-	0.9977	P/F	L/F
ICV	↓	↓	927	22.50	763.3	8.7	8.70	100.7	-	0.9977	P/F	L/F
CCV	↓	1/19/21	1437	21.56	768.7	8.9	8.99	102.2	-	0.9977	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.	Kim Appleby	1/4/21	930	200407A	4/2/21	50,000	50,000	P/F	L/F
ICV	↓	↓	932	200407B	4/2/21	20,000	19,450	P/F	L/F
CCV	↓	1/19/21	1439	201222C	1/2022	50,000	49,580	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: _____

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	Kim Appleby	1/4/21	935	0.00	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: