

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

Station Name
TIMUclap02

Calibration / Pre-Deployment

Instrument (Sonde) # (SN) 9AE
 Calibration Date 8/11/20 Calibrated By Rim Appleby
 Battery Voltage Pre-Calibration 12.4 Battery Voltage >5.3 ☒ Y / ☐ N Battery Voltage Post-Calibration 12.4
 Central Wiper Replaced ☒ Y / ☐ N Central Wiper Parking 180° ☒ Y / ☐ N
 Barometric Pressure (mmHg) 761.5 Conductivity Cell Constant 4.87669 ODO Gain 1.00775
 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>23.81</u>	<u>50.0</u>	<u>0.00</u>	<u>100.0</u>	<u>8.4</u>		
Measured	<u>23.78</u>	<u>50.1</u>	<u>0.00</u>	<u>100.4</u>	<u>8.45</u>		
Calibrated		<u>50.0</u>	<u>0.00</u>	<u>99.8</u>	<u>8.40</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. Appleby / B. Davis File Name: TIMUclap02_20200811
 (Station name _YYYYMMDD)
 Sonde Start Date: 8/11/20 Sonde Start Time: 1315 Eastern Standard Time (EST)
 Actual Deployment Date: 8/11/20 Actual Time Placed in Water: 1319 (EST)

Comments:

Sunny high 90s, high tide

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

Observation Description:

Recorded By: Kimberly 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)

9AE

Retrieved By

K Appleby / B. Davis

Retrieval Date

9/1/20

Retrieval Time

1042 (EST)

Field Meter # (SN)

TEA-2

Field Meter Calibration Date

9/1/20

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	29.60	762.1	81.3	5.62	28.12	17.21			3.391		
In situ Sonde	29.53	762.1	74.6	5.16	28.97	17.79			3.744		

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: L External Screen: N Temp/Cond: N

ODO Probe: N pH Probe: — Turbidity: —

Post Deployment

Post Deployment Reading Date

9/1/20

Battery Voltage

10.5

Central Wiper Parking 180°

☒ N

Barometric Pressure (mmHg)

760.6

Conductivity Cell Constant

4.87669

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	24.94	50.00	0.00	100.0	8.30		
Measured (clean sensors)	24.89	49.79	-0.01	101.8	8.40		

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?

☒ N

If Y, describe in the comments.

File Name:

TIMUclap02-20200811

(Station name _YYYYMMDD)

Comments:

Recorded By Kimberly Appleby

Computer Entry By / Date _____

Certified By / Date _____

Used as "field meter" on 8/11/20

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: **9AE**

RQ-

Project:

- 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.	Kimberly Appleby	8/11/20	1120	23.99	761.5	8.4	8.40	99.8	-	1.00775	P/F	L/F
ICV	↓	↓	1122	24.0	761.5	8.4	8.45	100.4	-	1.00775	P/F	L/F
CCV	↓	9/1/20	1215	24.89	761.5	8.30	8.40	101.8	-	1.00775	P/F	L/F
CCV					760.6						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. Appleby	8/11/20	1135	19102SL	11/2020	5000	5000	P/F	L/F
ICV	↓	↓	1137	19102SL	11/2020	2000	19460	P/F	L/F
CCV	↓	9/1/20	1220	19102SL	11/2020	5000	49,790	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 $\pm 180 \pm 50$;

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	K. Appleby	8/11/20	1140	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 9/1/20

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Meter ID: SEA2

RQ-

Project: Zipboard Creek

Boldly "X" this box if there are qualified data on this page.

- 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	9/1/20	902	24.95	761.2	8.3	8.29	100.2	-	1.03421	P/F	L/F
ICV	↓	↓	904	24.98	761.2	8.3	8.26	100.3	-	1.03421	P/F	L/F
CCV	↓	9/24/20	1517	23.85	759.1	8.4	8.54	100.1	-	1.03421	P/F	L/F
CCV				23.97			8.49	100.9		1.03421	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. Appleby	9/1/20	911	200407A	4/2021	50,000	50,000	P/F	L/F
ICV	↓	9/1/20	913	191025B	11/2020	20,000	19,420	P/F	L/F
CCV	↓	9/24/20	1520	200407A	4/2021	50,000	49,820	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	K. Appleby	9/1/20	906	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: