

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

Station Name
TIMUclap02

Calibration / Pre-Deployment

Instrument (Sonde) # (SN) 18J103752 (Mac)
 Calibration Date 4/22/21 Calibrated By Kim Appleby
 Battery Voltage Pre-Calibration 2.51 Battery Voltage >5.3 Y / N Battery Voltage Post-Calibration 2.51
 Central Wiper Replaced Y / N Central Wiper Parking 180° Y / N
 Barometric Pressure (mmHg) 763.5 Conductivity Cell Constant 0.489082 ODO Gain 1.077244
 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>22.83</u>	<u>50.00</u>	<u>0.00</u>	<u>100.0</u>	<u>8.7</u>	<u>—</u>	<u>—</u>
Measured	<u>22.71</u>	<u>49.90</u>	<u>0.00</u>	<u>100.5</u>	<u>8.76</u>	<u>—</u>	<u>—</u>
Calibrated	<u>—</u>	<u>50.00</u>	<u>0.00</u>	<u>101.0</u>	<u>N/A</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: Kim Appleby + Brian Davis File Name: TIMUclap02 - 20210422
 (Station name _YYYYMMDD)
 Sonde Start Date: 4/22/21 Sonde Start Time: 1013 Eastern Standard Time (EST)
 Actual Deployment Date: 4/22/21 Actual Time Placed in Water: 1012 (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)

Moe

Retrieved By

Kim Appleby & Brian Davis

Retrieval Date

5/10/21

Retrieval Time

1057

(EST)

Field Meter # (SN)

Li10.

Field Meter Calibration Date

5/10/21

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	24.45	761.2	91.9	6.84	31.78	19.84	/	/	3.22	/	/
In situ Sonde		761.2	74.5	6.32			/	/	13.805	/	/

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: A

ODO Probe: N pH Probe: / Turbidity: /

Post Deployment

Post Deployment Reading Date

5/10/21

Battery Voltage

2.34

Central Wiper Parking 180°

☒ Y ☐ N

Barometric Pressure (mmHg)

759.4

Conductivity Cell Constant

0.470262

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	25.41	50.00	0.00	100.0	8.2	/	/
Measured (clean sensors)	25.52	52.09	0.02	100.7	8.26	/	/

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:

TIMUclap02-2021

(Station name_YYYYMMDD)

Comments: * Depth reading at 10.8x post-deployment. Recorded depth data incorrect.
** Not correct post-deploy depth reading, was reading at 0.1x after re-calibrating post deployment.
Depth issue was fully resolved after updating sonde firmware.
Had issue connecting handheld to sonde post-deployment. Re-starting sonde seemed to resolve issue.
was able to record post-deployment data readings. Data revealed larger issue. C/T data stopped
being recorded. Issue was broken on an C/T sensor. - larger issue discussed at a later date, also
affected deployment: 2/6/2021

Recorded By Kim Appleby

Computer Entry By / Date

Certified By / Date

used as "field meter" on ~~Shoat~~ ^{4/22/21} ~~5/22/21~~

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: Moe

RQ-

Project: Clapboard Creek

- 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 2/15/21

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	4/22/21	843	22.3	763.5	8.7	8.76	100.5	-	1.07724	P/F	L/F
ICV	↓	4/22/21	846	22.4	763.6	8.7	8.76	101.0	-	1.07724	P/F	L/F
CCV	↓	5/10/21	1656				8.27	101.2	-	1.07724	P/F	L/F
CCV		5/10/21	1723	25.38	759.4	8.2	8.26	100.7	-	1.07724	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	4/22/21	850	201222L	1/2022	50,000	50,000	P/F	L/F
ICV	↓	↓	851	200407B	4/2021	20,000	19,751	P/F	L/F
CCV	↓	5/10/21	1741	201222L	1/2022	50,000	52,090	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 $\pm$ 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: 2/15/21

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	4/22/21	855	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 5/10/21

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: Lilo

RQ:

Project: BMAP

Clapboard

Creek

- 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	5/10/21	922	24.6	760.6	8.3	8.35	100.1	-	1.083	☒ P	☒ F
ICV	↓	↓	926	24.6	760.5	8.3	8.36	100.4	-	1.083	☒ P	☒ F
CCV	↓	5/24/21	1600	23.5	762.7	8.5	8.67	102.2	-	1.083	☒ P	☒ 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	5/10/21	930	210426E	5/2022	50,000	50,000	☒ P	☒ F
ICV	↓	↓	934	210426D	5/2022	20,000	19,995	☒ P	☒ F
CCV	↓	5/24/21	1612	210426E	5/2022	50,000	50,007	☒ P	☒ 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	5/10/21	936	0.00	0.00	☒ P	☒ F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS: