

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

Station Name

**TIMUclap02**

**Calibration / Pre-Deployment**

Instrument (Sonde) # (SN) L10 (SN:18E101511)  
 Calibration Date 5/10/21 Calibrated By Kim Appleby  
 Battery Voltage Pre-Calibration 2.32 Battery Voltage >5.3 Y/N Battery Voltage Post-Calibration 2.32  
 Central Wiper Replaced Y/N Central Wiper Parking 180° Y/N  
 Barometric Pressure (mmHg) 760.6 Conductivity Cell Constant 0.470262 ODO Gain 1.083  
 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>24.54</u> | <u>50.00</u>      | <u>0.00</u> | <u>100.0</u> | <u>8.3</u>  |     |      |
| Measured   | <u>24.57</u> | <u>50.17</u>      | <u>0.00</u> | <u>100.4</u> | <u>8.36</u> |     |      |
| Calibrated |              | <u>50.00</u>      | <u>0.00</u> | <u>100.1</u> | <u>8.35</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: TT MUclap02-20210510  
 (Station name \_YYYYMMDD)  
 Sonde Start Date: 5/10/21 Sonde Start Time: 1100 Eastern Standard Time (EST)  
 Actual Deployment Date: 5/10/21 Actual Time Placed in Water: 1055 (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)

L10

Retrieved By

Kim Appleby + Jeremy Parrish

Retrieval Date

5/24/21

Retrieval Time

940 (EST)

Field Meter # (SN)

Moc

Field Meter Calibration Date

5/24/21

On Site Readings

|                  | Temp<br>(°C) | Baro.<br>Pres.<br>(mmHg) | ODO<br>(% Sat.) | ODO<br>(mg/l) | Sp. Cond.<br>(mS/cm) | Salinity<br>(psu) | pH | Turb.<br>(FNU) | Depth<br>(m) | Chla<br>(µg/l) | BGA<br>(µg/l) |
|------------------|--------------|--------------------------|-----------------|---------------|----------------------|-------------------|----|----------------|--------------|----------------|---------------|
| Field<br>Meter   | 24.85        | 765.3                    | 86.1            | 6.09          | 42.511<br>43.00      | 27.30             | /  | /              | 3.3          | /              | /             |
| In situ<br>Sonde | 24.956       | 765.3                    | 70.9            | 5.07          | 40.072               | 25.59             | /  | /              | 3.48         | /              | /             |

**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: NA External Screen: / Temp/Cond: N

ODO Probe: N pH Probe: / Turbidity: /

Post Deployment

Post Deployment Reading Date

5/24/21

Battery Voltage

2.19

Central Wiper Parking 180°

☒ Y / ☐ N

Barometric Pressure (mmHg)

762.7

Conductivity Cell Constant

0.470262

pH7 (mv)

/

pH10 (mv)

/

pH Slope

/

pH4 (mv)

/

| Parameter                   | Temp<br>(°C) | Sp. Cond.<br>(mS/cm) | Depth<br>(m) | ODO<br>(% Sat.) | ODO<br>(mg/l) | pH7 | pH10 |
|-----------------------------|--------------|----------------------|--------------|-----------------|---------------|-----|------|
| Standard                    | 25.03        | 50.00                | 0.00         | 100.0           | 8.5           | /   | /    |
| Measured<br>(clean sensors) | 25.08        | 50.00                | 0.00         | 102.2           | 8.67          | /   | /    |

| Parameter                   | pH4<br>(check) | Turbidity Low<br>(FNU) | Turbidity High<br>(FNU) | Chl Low<br>(µg/l) | Chl High<br>(µg/l) | BGA-PE Low<br>(µg/l) | BGA-PE High<br>(µg/l) |
|-----------------------------|----------------|------------------------|-------------------------|-------------------|--------------------|----------------------|-----------------------|
| Standard                    | /              | /                      | /                       | /                 | /                  | /                    | /                     |
| Measured<br>(clean sensors) | /              | /                      | /                       | /                 | /                  | /                    | /                     |

Any Probe Malfunctions?

☒ Y / ☐ N

If Y, describe in the comments.

File Name:

TIMUclap02-20210524

(Station name \_YYYYMMDD)

Comments:

Recorded By

Kim Appleby

Computer Entry By / Date

Certified By / Date

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: L10

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 2/15/21

| DO<br>DEP SOP<br>FT 1500 | Name        | Date    | Time<br>CT-ET | Temp<br>°C | Baro-<br>meter<br>mmHg | D.O.<br>Chart<br>mg/L | Meter<br>D.O.<br>mg/L | % DO  | Probe<br>Charge | Probe<br>Gain | Pass<br>/<br>Fail | Lab<br>/<br>Field |
|--------------------------|-------------|---------|---------------|------------|------------------------|-----------------------|-----------------------|-------|-----------------|---------------|-------------------|-------------------|
| Calibr.                  | Kim Appleby | 5/10/21 | 922           | 24.6       | 760.6                  | 8.3                   | 8.35                  | 100.1 | -               | 1.083         | (P) F             | (L) F             |
| ICV                      | ↓           | ↓       | 926           | 24.6       | 760.5                  | 8.3                   | 8.36                  | 100.4 | -               | 1.083         | (P) F             | (L) F             |
| CCV                      | ↓           | 5/24/21 | 1600          | 23.5       | 762.7                  | 8.5                   | 8.67                  | 102.2 | -               | 1.083         | (P) F             | (L) F             |
| CCV                      |             |         |               |            |                        |                       |                       |       |                 |               | P / F             | L / F             |

DO Acceptance criteria from Table  $\pm 0.3$  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.<br>Cond.<br>FT 1200 | Name        | Date    | Time<br>CT-ET | Lot #   | Expir.<br>Date | Standard<br>$\mu$ hos/cm | Meter<br>Reading<br>$\mu$ hos/cm | Pass<br>/<br>Fail | Lab<br>/<br>Field |
|---------------------------|-------------|---------|---------------|---------|----------------|--------------------------|----------------------------------|-------------------|-------------------|
| Calibr.                   | Kim Appleby | 5/10/21 | 930           | 210426E | 5/2022         | 50,000                   | 50,000                           | (P) F             | (L) F             |
| ICV                       | ↓           | ↓       | 934           | 210426D | 5/2022         | 20,000                   | 19,995                           | (P) F             | (L) F             |
| CCV                       | ↓           | 5/24/21 | 1612          | 210426E | 5/2022         | 50,000                   | 50,007                           | (P) F             | (L) F             |
| CCV                       |             |         |               |         |                |                          |                                  | P / F             | L / F             |

Conductivity Acceptance criteria  $\pm 5\%$

| pH<br>DEP SOP<br>FT 1100 | Name | Date | Time<br>CT-ET | Lot # | Expir.<br>Date | pH<br>Buffer<br>SU | Temp<br>°C | Meter<br>reading<br>SU | mV | Pass<br>/<br>Fail | Lab<br>/<br>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  $\pm 0.2$  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: 2/15/21

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: \_\_\_\_\_; Date of last verification: \_\_\_\_\_

| Depth Sensor<br>(Daily Calibration &<br>ICV) | Name        | Date    | Time<br>CT-ET | Calibrated<br>Value (0.00 or<br>Offset), meters | ICV Value,<br>meters | Pass /<br>Fail | Lab /<br>Field |
|----------------------------------------------|-------------|---------|---------------|-------------------------------------------------|----------------------|----------------|----------------|
| Pressure mode in air                         | Kim Appleby | 5/10/21 | 936           | 0.00                                            | 0.00                 | (P) F          | (L) F          |

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

COMMENTS:

Used as "Field meter" on 5/24/21

# 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:

Moc

RQ-

Project:

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

5/17/21

| 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 | 5/24/21 | 816        | 24.3    | 764.2           | 8.4             | —               | 100.6 | —            | 1.0655     | P/F         | L/F         |
| ICV                | ↓           | ↓       | 819        | 24.3    | 764.2           | 8.4             | 8.42            | 100.6 | —            | 1.0655     | P/F         | L/F         |
| CCV                | ↓           | 6/10/21 | 1724       | 19.7    | 759.9           | 9.1             | 9.07            | 99.2  | —            | 1.0655     | P/F         | L/F         |
| CCV                |             |         |            |         |                 |                 |                 |       |              |            | P/F         | L/F         |

DO Acceptance criteria from Table  $\pm 0.3$  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 $\mu$ mhos/cm | Meter Reading $\mu$ mhos/cm | Pass / Fail | Lab / Field |
|---------------------|-------------|---------|------------|---------|-------------|------------------------|-----------------------------|-------------|-------------|
| Calibr.             | Kim Appleby | 5/24/21 | 820        | 210426E | 5/2022      | 50,000                 | 50,000                      | P/F         | L/F         |
| ICV                 | ↓           | ↓       | 824        | 210426D | 5/2022      | 20,000                 | 20,436                      | P/F         | L/F         |
| CCV                 | ↓           | 6/10/21 | 1726       | 210426E | 5/2022      | 50,000                 | 51,960                      | 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  $\pm 0.2$  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:

5/17/21

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 | 5/24/21 | 830        | 0.00                                      | 0.00              | P/F         | L/F         |

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

COMMENTS: