

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

Station Name

TIMUclap02

Calibration / Pre-Deployment

Instrument (Sonde) # (SN) L.I.L.O.

Calibration Date 1/24/22

Calibrated By Kim Appleby

Battery Voltage Pre-Calibration 2.57

Battery Voltage > 5.3
(Exo 3)

Y / ☒ N

Battery Voltage Post-Calibration 2.56

Central Wiper Replaced ☒ Y / ☒ N

Central Wiper Parking 180° ☒ Y / N

Barometric Pressure (mmHg) 762.2

Conductivity Cell Constant 0.467614

ODO Gain 1.063

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>20.69</u>	<u>50.000</u>	<u>0.00</u>	<u>100.0</u>	<u>8.9</u>	<u>/</u>	<u>/</u>
Measured	<u>20.785</u>	<u>49.991</u>	<u>0.00</u>	<u>100.3</u>	<u>8.92</u>	<u>/</u>	<u>/</u>
Calibrated	<u>/</u>	<u>50.000</u>	<u>0.00</u>	<u>100.3</u>	<u>-</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: JP/KA

File Name: C01242022

(Station name YYYYMMDD)

Sonde Start Date: 1/24/2022

1442 1445

Sonde Start Time: 1445

Eastern Standard Time (EST)

Actual Deployment Date: 1/24/2022

Actual Time Placed in Water: 1445

1345 1445 (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)

L.I.L.O.

Retrieved By

Kim Appleby & Vincent McElwaine

Retrieval Date

2/22/22

Retrieval Time

1505

(EST)

Field Meter # (SN)

E.L.S.A.

Field Meter Calibration Date

2/22/22

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	<u>17.19</u>	<u>765.8</u>	<u>103.6</u>	<u>8.63</u>	<u>37.52</u>	<u>23.85</u>	—	—	<u>3.941</u>	—	—
In situ Sonde	<u>16.413</u>	<u>765.8</u>	<u>92.2</u>	<u>7.79</u>	<u>38.071</u>	<u>24.23</u>	—	—	<u>3.532</u>	—	—

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 2/24/22

Battery Voltage 2.41

Central Wiper Parking 180°

☒ Y ☐ N

Barometric Pressure (mmHg) 765.0

Conductivity Cell Constant 0.464614

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	<u>20.78</u>	<u>50.00</u>	<u>0.00</u>	<u>100.0</u>	<u>9.0</u>	<u>—</u>	<u>—</u>
Measured (clean sensors)	<u>20.88</u>	<u>49.94</u>	<u>0.04</u>	<u>100.7</u>	<u>9.03</u>	<u>—</u>	<u>—</u>

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	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Measured (clean sensors)	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

Any Probe Malfunctions?

Y / N

If Y, describe in the comments.

File Name:

6601242022

(Station name _YYYYMMDD)

Comments:

Recorded By

Kim Appleby

Computer Entry By / Date

Certified By / Date

Used as "field meter" on 11/24/21

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: L.I.L.O.

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 11/24/21

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	1/24/22	949	21.1	762.2	8.9	-	100.3	-	1.063	P/F	L/F
ICV	↓	↓	951	21.15	762.3	8.9	8.92	100.3	-	1.063	P/F	L/F
CCV	↓	2/24/22	1703	20.75	765.0	9.0	9.03	100.7	-	1.063	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	1/24/22	1002	210917L	9/2022	50,000	50,000	P/F	L/F
ICV	↓	↓	1008	211122A	12/2022	15,000	14,912	P/F	L/F
CCV	↓	2/24/22	1705	210917L	9/2022	50,000	49,940	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: 11/24/21

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	1/24/22	1009	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:

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: ELSA

RQ-

Project: BMAP CLAPBOARD

- 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 2/3/22

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.	Vincent McQuinn	2/22/22	9:31	21.1	766.9	9.0	8.98	100.7	-	1.016	P/F	P/F
ICV		↓	9:32	21.1	766.9	9.0	8.98	101.0	-	1.016	P/F	P/F
CCV	Kim Appleby	3/8/22	14:52	21.5	759.8	8.8	8.77	99.4	-	1.016	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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Vincent McQuinn	2/22/22	9:36	210917C	09/2022	50000	49764	P/F	P/F
ICV	↓	↓	9:45	211122A	12/2022	15000	14954	P/F	P/F
CCV	Kim Appleby	3/8/22	15:00	210917C	9/2022	50000	50087	P/F	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: 2/3/22

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	Vincent McQuinn	2/22/22	9:52	0.00	0.00	P/F	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: