

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

Station Name

TIMUclap02

Retrieval

In situ Sonde # (SN)

11F100555 (SEA2)

Retrieved By

J. Parrish / K. Appleby

Retrieval Date

03-09-2020

Retrieval Time

0920

(EST)

Field Meter # (SN)

19E101195

Field Meter Calibration Date

03-09-2020

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	15.7	774	98.0	8.10	46.695	30.3	7.82	—	3.0	—	—
In situ Sonde	15.5	774	90.1	7.44	47.500	30.9	—	—	4.3	—	—

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: N Temp/Cond: N

ODO Probe: N pH Probe: N Turbidity: N

Post Deployment

Post Deployment Reading Date

03-09-2020

Battery Voltage

11.6

Central Wiper Parking 180°

☒ Y ☐ N

Barometric Pressure (mmHg)

770

Conductivity Cell Constant

5.00039

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	23.23	50.00	0.00	100	8.7		
Measured (clean sensors)	23.19	50.59	-0.09	102.9	8.83		

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:

TIMUclap02-20200217

(Station name _YYYYMMDD)

Comments:

High Tide
Pt. Cloudy ~ mid 60's

Used additional sonde as "field meter" -
ProDSS 19E101195 instead of 6600
model about to be deployed

Recorded By

A. Kalmbacher

Computer Entry By / Date

A. Kalmbacher

Certified By / Date

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:

51 DESI

RQ:

2020-03-02-23

Project:

Nassau West 1

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

2/10/20

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.	J.P. Smith	3/10/20	737	22.4	774	8.8	8.8	101.9	-	1.041	P/F	L/F
ICV	J	3/10/20	738	22.4	774	8.8	8.8	101.9	-	1.041	P/F	L/F
CCV	R. Appleby	3/10/20	2133	23.2	774	8.7	8.74	102.1	-	1.041	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.	J.P. Smith	3/9/20	741	191018	10/20	1000	1000	P/F	L/F
ICV	J	3/9/20	742	190711A	7/20	100	101	P/F	L/F
CCV	R. Appleby	3/9/20	1335	191018	10/20	1000	1012	P/F	L/F
CCV	J	3/9/20	741618	191025C	11/20	50000	50774	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.	J.P. Smith	3/9/20	743	2911819	10/21	7.00	23.1	37.6	38.6	P/F	L/F
Calibr.	J		744	2910629	10/21	4.00	23.0	4.00	1420	P/F	L/F
Calibr.	J		745	4910623	5/21	10.00	22.8	10.02	208.8	P/F	L/F
ICV	J		750	2910629	10/21	4.00	22.9	4.00	139.8	P/F	L/F
CCV	R. Appleby	3/9/20	1337	2911819	10/21	7.00	23.4	7.16	-44.3	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:

2/10/20

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	J.P. Smith	3/9/20	751	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: SEA 2

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

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.	<u>AKalmbacher</u>	<u>02-17-2020</u>	<u>0815</u>	<u>23.3</u>	<u>763.5</u>	<u>8.4</u>	<u>8.5</u>	<u>100.5</u>		<u>1.0083</u>	<u>P</u> / F	L / <u>F</u>
ICV			<u>0820</u>	<u>23.3</u>	<u>763.5</u>	<u>8.4</u>	<u>8.58</u>	<u>100.9</u>		<u>1.0083</u>	<u>P</u> / F	L / <u>F</u>
CCV	<u>AKalmbacher</u>	<u>03-09-2020</u>	<u>1630</u>	<u>22.8</u>	<u>770</u>	<u>8.7</u>	<u>8.83</u>	<u>102.9</u>		<u>1.0083</u>	<u>P</u> / F	L / <u>F</u>
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.	<u>AKalmbacher</u>	<u>02-17-2020</u>	<u>0825</u>	<u>190711C</u>	<u>7/2020</u>	<u>50,000</u>	<u>50,000</u>	<u>P</u> / F	L / F
ICV			<u>0828</u>	<u>19025B</u>	<u>11/2020</u>	<u>20,000</u>	<u>19,700</u>	<u>P</u> / F	L / <u>F</u>
CCV	<u>AKalmbacher</u>	<u>03-09-2020</u>	<u>1635</u>	<u>191025C</u>	<u>11/2020</u>	<u>50,000</u>	<u>50,590</u>	<u>P</u> / F	L / <u>F</u>
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.						<u>7.</u>				P / F	L / F
Calibr.						<u>4.</u>				P / F	L / F
Calibr.						<u>10.</u>				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: 2-10-2020

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	<u>AKalmbacher</u>	<u>02-17-2020</u>	<u>0830</u>	<u>0.001</u>	<u>0.002</u>	<u>P</u> / F	L / <u>F</u>

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

COMMENTS: