

YSI Datasonde Datasheet v1.1 – Deployment

SECN Coastal Water Quality Monitoring

Station Name

Clapboard Creek

Calibration QC Pre-Deployment

Date 8-5-2019QC'd By Battery Voltage 10.8 Turbidity Wiper Replaced Y / (N) Wiper parking 180° Y / N *N/A*Replace Batteries Y / N ODO Wiper Replaced Y / N Wiper parking 180° Y / NIf Yes, New Voltage 12.9 Free memory (days) 51.0 Battery Life (days) 117Barometric Pressure 760.4 pH7 (mv) pH10/4 (mv) Conductivity Cell Constant 4.97214 ODO Gain 1.00668 pH Slope

Parameter	Temp (C)	Sp. Cond.	pH7	pH10	pH4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	25.8	50.0	X	X	X	100	0.0	X	X
Measured	25.6	49.97				100.0	0.000		
Calibrate		50.0				100.1	0.000		

Start Time (Sonde) 8:15 13:45File Name CC08052019 Start Date 8-5-2019 Start Time (Actual) 9:15 14:45 DST

Deployment Information

Deployed By BD/AKInstrument # SEA 2 Date 8-5-2019Time 14:35

Notes

There will be a gap in data of several days - memory storage full and we could not deploy as planned in the am - (on previous sonde) had to make repairs to housing and deploy in

Site Observations: Fish Kill ☐ Algal Bloom ☐ Debris ☐ Hurricane / TS ☐ Other ☐ *afternoon instead*

Observation Description

High, incoming tide
low 90's partly cloudy

Recorded By AKelmbacher Computer Entry By AKelmbacherCertified By

YSI Datasonde Datasheet v1.1 – Retrieval

Station Name

SECN Coastal Water Quality Monitoring

Clapboard Creek

Retrieval Information:

Retrieved By:

CR/AK

Instrument #

SEA 2

Date

8-26-2019

Time

9:40 DST

Barometric Pressure

756.9

mmHg

pH7 (mv)

—

pH 10 / 4 (mv)

—

Battery Voltage

12.3

Turbidity wiper parked 180°

Y / N

ODO

Y / N

Post Calibration Date

8-26-2019

Cond. Cell Constant

4.9724

pH Slope

—

Parameter	Temp (C)	Sp. Cond.	pH 7	pH 10	pH 4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	24.3	50.00				100	0.0		
Measured	24.2	49.54				100.9	0.07		

Fouling presence: Please record type of fouling AND amount (eg A, B, E, / H)

Types A= Algae, B= Barnacles, C= Crabs, E= Eggs, F= Fish, O= Other, N= none / Amount H=Heavy, M= Moderate, L= Light, N= None.

Sonde/Guard:

C

External Screen:

N

Temp/Cond:

N

ODO Probe:

N

pH Probe:

N

Turbidity:

N

Comments:

Overcast, swift outgoing current
10 mph wind out of SE ~90°

File Name CC08052019

Any Probe Malfunctions

Y (N)

If Y, please describe above

Download File

Y / N

Date

8-26-2019

Initials

AK

Sent Datafile

Y / N

Date

8-26-2019

Initials

AK

Sent Datasheet

Y / N

Date

8-26-2019

Initials

AK

Recorded By:

AKimbacher

Computer Entry By:

AKimbacher

Certified By

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>Kalmbacher</u>	<u>8-5-19</u>	<u>0750</u>	<u>25.6</u>	<u>760.4</u>	<u>8.2</u>	<u>8.17</u>	<u>100.1</u>		<u>1.0068</u>	<u>P</u> / F	L / <u>F</u>
ICV			<u>0755</u>	<u>25.6</u>	<u>760.4</u>	<u>8.2</u>	<u>8.15</u>	<u>100.0</u>		<u>1.0068</u>	<u>P</u> / F	<u>L</u> / F
CCV	<u>Kalmbacher</u>	<u>8-26-19</u>	<u>1100</u>	<u>24.2</u>	<u>756.9</u>	<u>8.4</u>	<u>8.43</u>	<u>100.9</u>		<u>1.0068</u>	<u>P</u> / F	<u>L</u> / 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.	<u>Kalmbacher</u>	<u>8-5-19</u>	<u>0800</u>	<u>190711C</u>	<u>7/2020</u>	<u>50,000</u>	<u>50,000</u>	P / F	L / F
ICV			<u>0803</u>	<u>719820</u>	<u>12/2019</u>	<u>24,820</u>	<u>24,660</u>	<u>P</u> / F	<u>L</u> / F
CCV			<u>1105</u>	<u>190711C</u>	<u>7/2020</u>	<u>50,000</u>	<u>49,540</u>	<u>P</u> / F	<u>L</u> / 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.						<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 ± 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	<u>Kalmbacher</u>	<u>8-5-19</u>	<u>0807</u>	<u>0.00</u>	<u>0.00</u>	<u>P</u> / F	<u>L</u> / F

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

COMMENTS: