

YSI Datasonde Datasheet v1.1 – Deployment

SECN Coastal Water Quality Monitoring

Station Name

Clapboard Creek

Calibration QC Pre-Deployment

Date 9-6-2018

QC'd By

Battery Voltage 11.1

Turbidity Wiper Replaced Y / (N)

Wiper parking 180° (Y) / N

Replace Batteries Y / N

ODO Wiper Replaced Y (N)

Wiper parking 180° (Y) / N

If Yes, New Voltage

Free memory (days) 36.0

Battery Life (days) 103

Barometric Pressure 760.4

pH7 (mv) 8.6

pH10/4 (mv) 155.4 / 170.7

Conductivity Cell Constant 5.07833

ODO Gain 0.99586

pH Slope 161.0 / 174.4

Parameter	Temp (C)	Sp. Cond.	pH7	pH10	pH4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	23.8	50.00	7.0	10.0	4.0	100	0.0	0.0	126.0
Measured	24.0	50.00	6.98	9.93	3.95	100.4	0.002	0.0	134.4
Calibrate		50.00	6.99	9.95	3.95	100.3	0.0	0.2	125.5

Start Time (Sonde) 8:45

File Name CC09062108 Start Date 09-06-2018 Start Time (Actual) 9:45

Deployment Information

Deployed By CR/AK

Instrument # JEA 2 Date 9-6-2018

Time 9:35

Notes

Cloudy Falling tide 90° Humid East Wind ~ 10 mph

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

Observation Description

Recorded By AKalmbacher Computer Entry By AKalmbacher

Certified By

YSI Datasonde Datasheet v1.1 – Retrieval

Station Name

SECN Coastal Water Quality Monitoring

Clapboard Creek

Retrieval Information:

Retrieved By:

BD/AK

Instrument # JEA 2

Date 9-24-2018 Time 10:40

Barometric Pressure 759.6 mmHg pH7 (mv) 2.4 pH 10 / 4 (mv) -144.0 / 57.8

Battery Voltage 10.7 Turbidity wiper parked 180° Y / N ODO Y / N

Post Calibration Date 9-24-2018 Cond. Cell Constant 5.06812 pH Slope 146.4 / 160.2

Parameter	Temp (C)	Sp. Cond.	pH 7	pH 10	pH 4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	24.1	50.00	7.0	10.0	4.0	100	0.0	0.0	126
Measured	24.19	50.26	7.03	9.72	4.17	99.9	0.0	0.8	—

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: N External Screen: N Temp/Cond: N

ODO Probe: N pH Probe: C Turbidity: N

Comments:

Very High tide - swift current
Cloudy ~ 90° - less humid

File Name CC09062018

Any Probe Malfunctions

(Y) N

If Y, please describe above

pH outside of acceptance for DEP criteria on pH 10

Download File (Y) / N

Date 9-24-2018 Initials AK

Sent Datafile Y / N

Date 9-24-2018 Initials AK

Sent Datasheet Y / N

Date 9-24-2018 Initials

Recorded By: AKalmbacher

Computer Entry By: AKalmbacher

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: JE 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>9-6-18</u>	<u>0800</u>	<u>23.6</u>	<u>720.4</u>	<u>8.48</u>	<u>8.50</u>	<u>100.3</u>	<u>—</u>	<u>0.99586</u>	<u>P / F</u>	<u>L / F</u>
ICV			<u>0803</u>	<u>23.8</u>	<u>710.4</u>	<u>8.44</u>	<u>8.48</u>	<u>100.4</u>			<u>P / F</u>	<u>L / F</u>
CCV	<u>AKalmbacher</u>	<u>9-24-18</u>	<u>1315</u>	<u>23.9</u>	<u>759.6</u>	<u>8.43</u>	<u>8.41</u>	<u>99.9</u>			<u>P / F</u>	<u>L / F</u>
CCV											<u>P / F</u>	<u>L / F</u>

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>9-6-18</u>	<u>0807</u>	<u>170720C</u>	<u>8/2018</u>	<u>50,000</u>	<u>50,000</u>	<u>P / F</u>	<u>L / F</u>
ICV			<u>0810</u>			<u>24,820</u>	<u>25,230</u>	<u>P / F</u>	<u>L / F</u>
CCV	<u>AKalmbacher</u>	<u>9-24-18</u>	<u>1317</u>	<u>170720C</u>	<u>8/2018</u>	<u>50,000</u>	<u>50,260</u>	<u>P / F</u>	<u>L / F</u>
CCV								<u>P / F</u>	<u>L / F</u>

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>AKalmbacher</u>	<u>9-6-18</u>	<u>0815</u>	<u>2803E45</u>	<u>3/2020</u>	<u>7.</u>	<u>23.9</u>	<u>6.99</u>	<u>5.6</u>	<u>P / F</u>	<u>L / F</u>
Calibr.			<u>0818</u>	<u>2803038</u>	<u>3/2020</u>	<u>4.</u>	<u>23.9</u>	<u>3.95</u>	<u>170.7</u>	<u>P / F</u>	<u>L / F</u>
Calibr.			<u>0820</u>	<u>2712855</u>	<u>6/2019</u>	<u>10.</u>	<u>24.0</u>	<u>9.95</u>	<u>155.4</u>	<u>P / F</u>	<u>L / F</u>
ICV			<u>0822</u>	<u>2803E45</u>	<u>3/29/20</u>	<u>7.0</u>	<u>24.0</u>	<u>6.98</u>	<u>5.5</u>	<u>P / F</u>	<u>L / F</u>
CCV	<u>AKalmbacher</u>	<u>9-24-18</u>	<u>0820</u>	<u>2803E45</u>	<u>3/2020</u>	<u>7.0</u>	<u>24.3</u>	<u>7.03</u>	<u>2.4</u>	<u>P / F</u>	<u>L / F</u>
CCV										<u>P / F</u>	<u>L / F</u>

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 10 161.0, slope from 4 to 7 174.3 (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>AKalmbacher</u>	<u>9-6-18</u>	<u>0805</u>	<u>0.000</u>	<u>0.002</u>	<u>P / F</u>	<u>L / 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: