

YSI Datasonde Datasheet v1.1 – Deployment

SECN Coastal Water Quality Monitoring

Station Name

Claphoard Creek

Calibration QC Pre-Deployment

Date 3-18-2019

QC'd By

Battery Voltage 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) 82.3 Battery Life (days) 116

Barometric Pressure 763.3 pH7 (mv) -34.5 pH10/4 (mv) -201.7/130.3

Conductivity Cell Constant 4.89377 ODO Gain 1.0254 pH Slope 167.2 / 164.8

Parameter	Temp (C)	Sp. Cond.	pH7	pH10	pH4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	22.4	56.00	7.0	10.0	4.0	100.0	0.0	0.0	126.0
Measured	22.18	50.00	7.09	10.05	4.06	100.6	0.0	0.0	124.9
Calibrate		56.00	7.01	10.02	4.00	100.2	0.0	0.0	126.0

Start Time (Sonde) 9:00

File Name CC03182019 Start Date 3-18-2018 Start Time (Actual) 10:00

Deployment Information

Deployed By BD/AK

Instrument # JEA 1 Date 3-18-2019 Time 0950

Notes

Turbidity sweeper is not working - deployed anyway as problem is with sonde port - no alternative

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

Observation Description

Swift outgoing tide - light chop
partly cloudy mid 60's°

Recorded By AKalmbacher Computer Entry By AKalmbacher

Certified By

YSI Datasonde Datasheet v1.1 – Retrieval

Station Name

SECN Coastal Water Quality Monitoring

Clayboard Creek

Retrieval Information:

Retrieved By: BD/AK

Instrument # JEA 1 Date 4-4-2019 Time 0920

Barometric Pressure 768.0 mmHg pH7 (mv) -36.8 pH 10 / 4 (mv) 203.5 / 124.6

Battery Voltage 11.4 Turbidity wiper parked 180° (Y) / N ODO (Y) / N

Post Calibration Date 4-4-2019 Cond. Cell Constant 4.8933 pH Slope 166.7 / 161.4

Parameter	Temp (C)	Sp. Cond.	pH 7	pH 10	pH 4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	22.8	50.00	7.0	10.0	4.0	100	0.0	0.0	126.0
Measured	22.6	49.80	7.04	10.03	4.11	101.3	0.05	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: C External Screen: N Temp/Cond: N

ODO Probe: N pH Probe: N Turbidity: N

Comments:

Outgoing tide
Clear skies
High 60's

File Name CC03182019

Any Probe Malfunctions

(Y) / N

If Y, please describe above

Turbidity sweeper not
sweeping -
Data looks OK, however

Download File (Y) / N

Date 4-4-2019 Initials AK

Sent Datafile Y / N

Date 4-4-2019 Initials AK

Sent Datasheet Y / N

Date 4-4-2019 Initials AK

Recorded By: A. Kalmbacher

Computer Entry By: A. Kalmbacher

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: SEA1

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>3-18-19</u>	<u>0800</u>	<u>22.0</u>	<u>763.3</u>	<u>8.74</u>	<u>8.76</u>	<u>100.2</u>	<u>—</u>	<u>1.0254</u>	<u>P / F</u>	<u>L / F</u>
ICV			<u>0805</u>	<u>22.0</u>	<u>763.3</u>	<u>8.74</u>	<u>8.80</u>	<u>100.6</u>	<u>—</u>	<u>1.0254</u>	<u>(P) / F</u>	<u>(L) / F</u>
CCV	<u>AKalmbacher</u>	<u>4-4-19</u>	<u>1130</u>	<u>22.2</u>	<u>768.0</u>	<u>8.8</u>	<u>8.79</u>	<u>101.3</u>	<u>—</u>	<u>1.0254</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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	<u>AKalmbacher</u>	<u>3-18-19</u>	<u>0810</u>	<u>180919</u>	<u>09/2019</u>	<u>50,000</u>	<u>50,000</u>	<u>P / F</u>	<u>L / F</u>
ICV			<u>0813</u>	<u>0424820</u>	<u>6/2020</u>	<u>24,820</u>	<u>24,650</u>	<u>(P) / F</u>	<u>(L) / F</u>
CCV	<u>AKalmbacher</u>	<u>4-4-19</u>	<u>1140</u>	<u>180919</u>	<u>09/2019</u>	<u>50,000</u>	<u>49,800</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>3-18-19</u>	<u>0815</u>	<u>2807A76</u>	<u>6/2020</u>	<u>7.</u>	<u>22.3</u>	<u>7.01</u>	<u>-34.5</u>	<u>P / F</u>	<u>L / F</u>
Calibr.			<u>0820</u>	<u>2811D47</u>	<u>11/2020</u>	<u>4.</u>	<u>22.2</u>	<u>4.00</u>	<u>130.3</u>	<u>P / F</u>	<u>L / F</u>
Calibr.			<u>0825</u>	<u>2810F55</u>	<u>4/2020</u>	<u>10.</u>	<u>22.1</u>	<u>10.02</u>	<u>-201.7</u>	<u>P / F</u>	<u>L / F</u>
ICV			<u>0828</u>	<u>2807A76</u>	<u>6/2020</u>	<u>7.0</u>	<u>22.1</u>	<u>7.09</u>	<u>-36.2</u>	<u>(P) / F</u>	<u>(L) / F</u>
CCV	<u>AKalmbacher</u>	<u>4-4-19</u>	<u>1145</u>	<u>2810F55</u>	<u>4/2020</u>	<u>10.0</u>	<u>22.7</u>	<u>10.03</u>	<u>-203.5</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 $\pm$ 50;

mV pH 4 Range +180 $\pm$ 50;

mV pH 10 Range -180 $\pm$ 50;

If mV are recorded: slope from 7 to 10 167.2, slope from 4 to 7 164.8 (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>3-18-19</u>	<u>0807</u>	<u>0.00</u>	<u>0.00</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: