YSI Datasonde Datasheet v1.1 – **Deployment**

SECN Coastal Water Quality Monitoring

Station Name: Clapboard Creek

Calibration QC Pre-Deployment

Date: 2-4-2019 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: 12.8 Free memory (days): 104 Battery Life (days): 117

Barometric Pressure: 762.0 pH7 (mv): -324 pH10/4 (mv): -195.6 / 132.2

Conductivity Cell Constant: 4.99598 ODO Gain: 1.02519 pH Slope: 163.2 / 164.6

Parameter	Temp (C)	Sp. Cond.	pH7	pH10	pH4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	21.55	50.00	7.0	10.0	4.0	100	0.0	0.0	126.0
Measured	21.82	49.99	7.05	9.98	4.01	100.2	0.0	0.0	125.2
Calibrate		50.00	7.00	10.00	4.00	100.2	0.0	0.0	127.5

Start Time (Sonde): 10:30

File Name: CC02042019 Start Date: 02-04-2019 Start Time (Actual): 10:30

Deployment Information Deployed By: BD/AK

Instrument #: JEA 1 Date: 02-04-2019 Time: 11:13

Notes

Very high tide, overcast, misty ~60's°

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

Observation Description

Recorded By: A Kalmbacher Computer Entry By: A Kalmbacher

Certified By:

YSI Datasonde Datasheet v1.1 – **Retrieval**

Station Name: Clapboard Creek

SECN Coastal Water Quality Monitoring

Retrieval Information: Retrieved By: PO/AK

Instrument # JEA1 Date 2-25-2019 Time 11:35

Barometric Pressure 763.5 mmHg pH7 (mv) -34.1 pH 10 / 4 (mv) 196.5/175.7

Battery Voltage 11.8 Turbidity wiper parked 180° (Y) / N ODO (Y) / N

Post Calibration Date 2-25-2019 Cond. Cell Constant 4.9887 pH Slope 162.4/159.8*

Parameter	Temp (C)	Sp. Cond.	pH 7	pH 10	pH 4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	22.5	50.00	7.00	10.0	4.0	100	0.0	0.0	126.0
Measured	22.8	49.87	7.04	10.0	4.11	102	0.08	0.6	—

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: F, C External Screen: N Temp/Cond: N

ODO Probe: N pH Probe: N Turbidity: N

Comments:

High Tide, windy ~65°

* pH slope out of range

File Name CC02042019 Any Probe Malfunctions Y (N)

If Y, please describe above

Download File	(Y) / N	Date 2-25-2019	Initials AK
Sent Datafile	Y / N	Date 2-25-2019	Initials AK
Sent Datasheet	Y / N	Date 2-25-2019	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: JEA1 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	
Calibr.	AKalmbacher	2-4-19	0835	21.6	8.81	760.2	8.81	100.2		1.025	P / F	L / F
ICV			0840	21.7	760.2	8.79	8.79	100.2		1.025	(P) F	(L) F
CCV		2-25-19	1400	17.2	763.5	9.62	9.82	102.0		1.025	(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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	
Calibr.	AKalmbacher	2-4-19	0815	180919	9/2019	50,000	49,990	P / F	L / F
ICV			0848	1024820	9/2019	24,820	24,580	(P) / F	(L) F
CCV		2-25-19	1405	180919	9/2019	50,000	49,870	(P) F	(L) F
CCV								P / F	L / F

Conductivity Acceptance criteria ± 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	
Calibr.	AKalmbacher	2-4-19	0850	2809841	8/2020	7.	21.9	7.00	-32.4	P / F	L / F
Calibr.			0855	2810852	9/2020	4.	21.8	4.00	132.2	P / F	L / F
Calibr.			0900	1086F51	12/2019	10.	21.9	10.00	-195.6	P / F	L / F
ICV			0903	2809841	8/2020	7.0	21.9	7.05	-34.9	(P) F	(L) F
CCV		2-25-19	1410	2809841	8/2020	7.0	22.3	7.04	-34.1	P / F	L / F
CCV							22.5	10.0	-196.5	P / F	L / F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50; mV pH 4 Range +180 ± 50; mV pH 10 Range -180 ± 50;
If mV are recorded: slope from 7 to 10 163.2, slope from 4 to 7 164.6 (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	
Pressure mode in air	AKalmbacher	2-4-19	0905	0.00	0.00	(P) F	(L) F

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

COMMENTS:
pH slope out of range