

YSI Datasonde Datasheet v1.1 – Deployment

SECN Coastal Water Quality Monitoring

Station Name

Clayboard Creek

Calibration QC Pre-Deployment

Date 6-23-2017

QC'd By

Battery Voltage 12.3

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) 87.8

Battery Life (days) 117

Barometric Pressure 760

pH7 (mv)

pH10/4 (mv)

Conductivity Cell Constant 4.79463

ODO Gain 1.04931

pH Slope

Parameter	Temp (C)	Sp. Cond.	pH7	pH10	pH4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	24.0	50,000				100	0.000	0.0	126.0
Measured	21.6	49,860					-0.005	-1.3*	
Calibrate		50,070				100	0.000	-0.3	125.1

Start Time (Sonde) 08:00:00

File Name CC06232017 Start Date 06-23-2017 Start Time (Actual)

Deployment Information

Deployed By BD/AR

Instrument # JEA 1

Date 06-23-2017

Time 0907 DST

Notes

Followed Turb. calibration with single point offset of 0.5 NTU - as per YSI Calibration, Maintenance + Troubleshooting Tips *

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

SECN Coastal Water Quality Monitoring

Station Name

Clapboard

Retrieval Information:

Retrieved By:

PO/AR

Instrument # SEA 1 Date 7-10-2017 Time 10:07Barometric Pressure 740 mmHg pH7 (mv) / pH10 / 4 (mv) /Battery Voltage 12.3 Turbidity wiper parked 180° Y / N ODO Y / NPost Calibration Date 7-10-2017 Cond. Cell Constant 4.79463 pH Slope /

Parameter	Temp (C)	Sp. Cond.	pH 7	pH 10	pH 4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	23.0	50.00				100	0.00	0.0	
Measured	21.6	49.21				100.80	0.007	4.0	

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: NODO Probe: N pH Probe: N Turbidity: H/A sweeper

Comments:

Hot, Humid High Tide

filamentous
Heavy algae growth on
Turbidity sweeper strongly
influenced data for turbidity
does not seem to have affected
other parameters

File Name CC06232017

Any Probe Malfunctions

Y / (N)

If Y, please describe above

Download File (Y) / NDate 7-10-2017 Initials ARSent Datafile (Y) / NDate 7-10-2017 Initials ARSent Datasheet (Y) / NDate 7-10-2017 Initials AR

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 is qualified data on this page.

Meter JE A 2 RQ- 2017- Project Chapman

- Notes:** (1) Numbers ≤ 4 , are rounded down; numbers ≥ 5 are rounded up (e.g., 5.15 becomes 5.2).
 (2) Always wait for meter to stabilize before recording any readings.
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site _____

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification _____

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	<u>A Kalmbacher</u>	<u>7-10-17</u>	<u>0810</u>	<u>24.2</u>	<u>8.38</u>	<u>8.43</u>	<u>100.5</u>		<u>1.0292</u>		
ICV			<u>0820</u>	<u>23.0</u>	<u>8.57</u>	<u>8.64</u>	<u>101.1</u>		<u>1.0292</u>	<u>P</u>	<u>L</u>
CCV	<u>A Kalmbacher</u>	<u>7-24-17</u>	<u>1145</u>	<u>23.9</u>	<u>8.43</u>	<u>8.59</u>	<u>101.8</u>		<u>1.0292</u>	<u>P</u>	<u>L</u>
CCV											

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

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; 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>A Kalmbacher</u>	<u>7-10-17</u>	<u>0812</u>	<u>161101C</u>	<u>11/17</u>	<u>50,000</u>	<u>50,000</u>		
ICV			<u>0815</u>	<u>035864C</u>	<u>12/17</u>	<u>58,640</u>	<u>59,400</u>	<u>P</u>	<u>L</u>
CCV	<u>A Kalmbacher</u>	<u>7-24-17</u>	<u>1150</u>	<u>161101C</u>	<u>11/17</u>	<u>50,000</u>	<u>47,640</u>	<u>P</u>	<u>L</u>
CCV									

Report specific conductance as a whole number with no decimal figure.

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading mV	Pass / Fail	Lab / Field
Calibr.	<u>A Kalmbacher</u>	<u>7-10-17</u>				<u>7.0</u>			
Calibr.						<u>4.0</u>			
Calibr.						<u>10.0</u>			
ICV									
CCV									
CCV									

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU; mV pH7 Range 0 ± 50 ;

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

mV pH 10 Range -180 ± 50 ; Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly)

Date of Last Depth Verification _____

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air	<u>A Kalmbacher</u>	<u>7-10-17</u>	<u>0817</u>	<u>0.000</u>	<u>0.0</u>	<u>P</u>	<u>L</u>

ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater

YSI Datasonde Datasheet v1.1 – Deployment

SECN Coastal Water Quality Monitoring

Station Name

Clayboard Creek

Calibration QC Pre-Deployment

Date 7/10/2017QC'd By Battery Voltage 12.4 Turbidity Wiper Replaced Y/(N) Wiper parking 180° Y / NReplace Batteries Y/(N) ODO Wiper Replaced Y/(N) Wiper parking 180° Y / NIf Yes, New Voltage Free memory (days) 57.8 Battery Life (days) 117Barometric Pressure 760 pH7 (mv) / pH10/4 (mv) /Conductivity Cell Constant 5.00358 ODO Gain 1.0292 pH Slope /

Parameter	Temp (C)	Sp. Cond.	pH7	pH10	pH4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard						100	0.0	0.0	126.0
Measured						101.1	0.0	0.0	
Calibrate						100.5	0.0	0.0	125.4

Start Time (Sonde) 8:30File Name CC07102017 Start Date 7-10-2017 Start Time (Actual) 9:30

Deployment Information

Deployed By PO/ARInstrument # JE A 2 Date 7-10-2017Time 10:07 DST

Notes

Hot, Humid High Tide

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

Observation Description

Recorded By A. Kalmbacher Computer Entry By A. KalmbacherCertified By

YSI Datasonde Datasheet v1.1 – Retrieval

Station Name

SECN Coastal Water Quality Monitoring

Clayboard Crk

Retrieval Information:

Retrieved By:

B. Davis / A. Kalmbacher

Instrument # JE1 2 Date 7-24-2017 Time 10:10Barometric Pressure 762.3 mmHg pH7 (mv) / pH10 / 4 (mv) /Battery Voltage 11.5 Turbidity wiper parked 180° ☒ Y / ☐ N ODO ☒ Y / ☐ NPost Calibration Date 7-24-2017 Cond. Cell Constant 5.00358 pH Slope /

Parameter	Temp (C)	Sp. Cond.	pH 7	pH 10	pH 4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	<u>23.9</u>	<u>50.00</u>				<u>100.2</u>	<u>0.0</u>	<u>0.0</u>	
Measured	<u>24.09</u>	<u>47.61</u>				<u>101.8</u>	<u>0.01</u>	<u>2.1</u>	

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: L-AODO Probe: L-A pH Probe: N/A Turbidity: H-A/L-B

Comments:

Partly cloudy, light breeze ~ 85-90

Very high tide

File Name CC07102017

Any Probe Malfunctions

☒ Y / ☐ N

If Y, please describe above

Download File ☒ Y / ☐ NDate 7-24-2017 Initials AKSent Datafile ☒ Y / ☐ NDate 7-24-2017 Initials AKSent Datasheet ☒ Y / ☐ NDate 7-24-2017 Initials AKRecorded By: A. KalmbacherComputer 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 is qualified data on this name.

Meter SEA 1 RQ- 2017- Project Clayboard Creek

- Notes: (1) Numbers ≤ 4 , are rounded down; numbers ≥ 5 are rounded up (e.g., 5.15 becomes 5.2).
 (2) Always wait for meter to stabilize before recording any readings.
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site _____

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 7-24-2017

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	A. Kalmbacher	7-24-17	0815	23.8	8.44	8.47	100.4		1.09659		
ICV			0820	23.8	8.44	8.45	100.3		1.09659	P	L
CCV	A. Kalmbacher	8-10-17	1600	24.5	8.34	8.31	99.8		1.09659	P	L
CCV											

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

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; 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.	A. Kalmbacher	7-24-17	0823	161101C	11/2017	50.00	50.00		
ICV			0825	0358640	12/2017	58.64	60.12	P	L
CCV	A. Kalmbacher	8-10-17	1605	161101C	11/2017	50.00	50.28	P	L
CCV									

Report specific conductance as a whole number with no decimal figure.

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.						7.0				
Calibr.						4.0				
Calibr.						10.0				
ICV										
CCV										
CCV										

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU; mV pH7 Range 0 ± 50 ; mV pH 4 Range $+180 \pm 50$;
 mV pH 10 Range -180 ± 50 ; Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly)

Date of Last Depth Verification _____

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air	A. Kalmbacher	7-24-17	0840	0.000	0.00	P	

ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater

YSI Datasonde Datasheet v1.1 – Deployment

SECN Coastal Water Quality Monitoring

Station Name
Clayboard Creek

Calibration QC Pre-Deployment

Date 7-24-2017

QC'd By

Battery Voltage 11.6

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) 70.0

Battery Life (days) 114

Barometric Pressure 762.3

pH7 (mv)

pH10/4 (mv)

Conductivity Cell Constant 5.10428

ODO Gain 1.09659

pH Slope

Parameter	Temp (C)	Sp. Cond.	pH7	pH10	pH4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	23.8	50.00				100	0.00	0.0	126
Measured	23.8	50.00				100.3	0.00	-0.5	123.1
Calibrate		50.00				100.4	0.00	0.0	125.4

Start Time (Sonde) 0830

File Name CL07242017 Start Date 7-24-2017 Start Time (Actual) 0930 DST

Deployment Information

Deployed By BD/AR

Instrument # JEA 1 Date 7-24-17

Time 10:07 DST

Notes

Partly cloudy Light breeze ~ 85-90°
Very high tide

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

Observation Description

Recorded By A. Kalmbacher Computer Entry By B. Kalmbacher

Certified By

YSI Datasonde Datasheet v1.1 – Retrieval

SECN Coastal Water Quality Monitoring

Station Name

Clapham Crk

Retrieval Information:

Retrieved By:

DP/AK

Instrument # JEA 1 Date 8-10-2017 Time 2:10Barometric Pressure 763.9 mmHg pH7 (mv) / pH10 / 4 (mv) /Battery Voltage / Turbidity wiper parked 180° (Y) N ODO (Y) NPost Calibration Date 8-10-2017 Cond. Cell Constant 5.10428 pH Slope /

Parameter	Temp (C)	Sp. Cond.	pH 7	pH 10	pH 4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	<u>24.4</u>	<u>50.00</u>	/			<u>100</u>	<u>0.0</u>	<u>0.0</u>	
Measured	<u>24.35</u>	<u>50.28</u>				<u>99.8</u>	<u>0.004</u>	<u>-4.5</u>	

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: NODO Probe: Sweeper pH Probe: N Turbidity: Sweeper A/L

Comments:

→ A/L

High, outgoing tide
Partly cloudy, breezy 90°

File Name CC07242017

Any Probe Malfunctions

(Y) N

If Y, please describe above

Download File

(Y) N

Date

8/11/2017

Initials

AK

Sent Datafile

(Y) N

Date

8/11/2017

Initials

AK

Sent Datasheet

(Y) N

Date

8/11/2017

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 is qualified data on this name.

Meter JE2

RQ-

Project Clayboard Creek

- Notes: (1) Numbers ≤ 4 , are rounded down; numbers ≥ 5 are rounded up (e.g., 5.15 becomes 5.2).
 (2) Always wait for meter to stabilize before recording any readings.
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	<u>AKalmbacher</u>	<u>8-10-17</u>	<u>1150</u>	<u>24.5</u>	<u>8.34</u>	<u>8.38</u>	<u>100.6</u>	<u>—</u>	<u>1.0043</u>		
ICV			<u>1155</u>	<u>24.5</u>	<u>8.34</u>	<u>8.38</u>	<u>100.6</u>		<u>1.0043</u>	<u>P</u>	<u>L</u>
CCV	<u>AKalmbacher</u>	<u>8-24-17</u>	<u>1320</u>	<u>24.7</u>	<u>8.31</u>	<u>8.27</u>	<u>99.7</u>		<u>1.0043</u>	<u>P</u>	<u>L</u>
CCV											

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

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; 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>8-10-17</u>	<u>1200</u>	<u>161101C</u>	<u>11/2017</u>	<u>50,000</u>	<u>50,000</u>		
ICV			<u>1203</u>	<u>0358640</u>	<u>12/2017</u>	<u>58,640</u>	<u>58,460</u>	<u>P</u>	<u>L</u>
CCV	<u>AKalmbacher</u>	<u>8-24-17</u>	<u>1325</u>	<u>161101C</u>	<u>11/2017</u>	<u>50,000</u>	<u>49,370</u>	<u>P</u>	<u>L</u>
CCV									

Report specific conductance as a whole number with no decimal figure.

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	<u>AKalmbacher</u>	<u>8-10-17</u>	<u>1208</u>	<u>1607A12</u>	<u>6/2018</u>	<u>7.0</u>	<u>7.0</u>	<u>-7.1</u>		
Calibr.			<u>1210</u>	<u>2702743</u>	<u>1/2019</u>	<u>4.0</u>	<u>4.0</u>	<u>170.4</u>		
Calibr.			<u>1213</u>	<u>261198</u>	<u>5/2018</u>	<u>10.0</u>	<u>9.96</u>	<u>-182.2</u>		
ICV			<u>1216</u>	<u>1607A12</u>	<u>6/2018</u>	<u>7.0</u>	<u>7.03</u>	<u>-8.8</u>	<u>P</u>	<u>L</u>
CCV	<u>AKalmbacher</u>	<u>8-24-17</u>	<u>1330</u>	<u>1607A12</u>	<u>6/2018</u>	<u>7.0</u>	<u>7.05</u>	<u>-9.8</u>	<u>P</u>	<u>L</u>
CCV										

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU; mV pH7 Range 0 ± 50 ;

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

mV pH 10 Range -180 ± 50 ; Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly)

Date of Last Depth Verification 8-10-2017

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air	<u>AKalmbacher</u>	<u>8-10-2017</u>	<u>1205</u>	<u>0.000</u>	<u>-0.001</u>	<u>P</u>	<u>L</u>

ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater

YSI Datasonde Datasheet v1.1 – Deployment

SECN Coastal Water Quality Monitoring

Station Name

Clapboard Creek

Calibration QC Pre-Deployment

Date 8-10-2017

QC'd By

Battery Voltage 11.4

Turbidity Wiper Replaced ☒ Y ☐ NWiper parking 180° ☒ Y ☐ NReplace Batteries ☒ Y ☐ NODO Wiper Replaced ☒ Y ☐ NWiper parking 180° ☒ Y ☐ N

If Yes, New Voltage

Free memory (days) 40.7

Battery Life (days) 110

Barometric Pressure 763.9

pH7 (mv) -7.1

pH10/4 (mv) +182.2/170.4

Conductivity Cell Constant 5.04272

ODO Gain 1.0043

pH Slope

Parameter	Temp (C)	Sp. Cond.	pH7	pH10	pH4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	24.85	50.00	7.0	10	4.0	100	0.0	0.0	126.0
Measured	24.69	50.00	7.01	9.96	4.02	100.6	-0.001	0.3	—
Calibrate		50.00	7.0	9.98	4.0	100.6	0.0	0.0	125.6

Start Time (Sonde) 12:00:00 sonde time

File Name CC08102017 Start Date 08-10-2017 Start Time (Actual) 13:00:00 DST

Deployment Information

Deployed By BD/AR

Instrument # JEA 2 Date 8-10-2017

Time 1310

Notes

High outgoing tide
Partly cloudy, breezy 90°

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

SECN Coastal Water Quality Monitoring

Station Name

Clapboard G K

Retrieval Information:

Retrieved By:

B. Davis / A. Kalmbacher

Instrument # JE A 2 Date 8-24-2017 Time 1025Barometric Pressure 751 mmHg pH7 (mv) -9.8 pH 10 / 4 (mv) 1817/154 .1Battery Voltage 12.7 Turbidity wiper parked 180° Y / N ODO Y / NPost Calibration Date 8-24-2017 Cond. Cell Constant 5.04272 Slope

Parameter	Temp (C)	Sp. Cond.	pH 7	pH 10	pH 4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	<u>24.8</u>	<u>50.00</u>	<u>7.0</u>	<u>10.0</u>	<u>4.0</u>	<u>100</u>	<u>0.0</u>	<u>0.0</u>	
Measured	<u>24.6</u>	<u>49.37</u>	<u>7.05</u>	<u>9.96</u>	<u>4.42</u>	<u>99.7</u>	<u>-0.08</u>	<u>2490</u>	*

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

Wiper not parking properly

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: NODO Probe: N pH Probe: N Turbidity: N

Comments:

Clear, Sunny
High incoming tide ~ 92°

File Name CC08102017

Any Probe Malfunctions

Y / N

pH 4 out of cal - 4.42

If Y, please describe above

↳ TURBIDITY

Download File Y / NDate 8-24-2017 Initials AKSent Datafile Y / NDate 8-25-2017 Initials AKSent Datasheet Y / NDate 8-25-2017 Initials AKRecorded By: A. KalmbacherComputer 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 is qualified data on this name.

Meter

SEA 1

RQ-

Project

Capitol Crk

- Notes: (1) Numbers ≤ 4 , are rounded down; numbers ≥ 5 are rounded up (e.g., 5.15 becomes 5.2).
 (2) Always wait for meter to stabilize before recording any readings.
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

8-24-2017

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	A Kalmbacher	8-24-17	0815	24.3	8.37	8.34	99.6	—	1.09597		
ICV			0820	24.1	8.40	8.40	100	—	1.09497	P	L
CCV	A Kalmbacher	9-5-17	1415	24.9	8.27	8.27	100		1.09597	P	L
CCV											

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

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; 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 $\mu\text{mhos/cm}$	Meter Reading $\mu\text{mhos/cm}$	Pass / Fail	Lab / Field
Calibr.	A Kalmbacher	8-24-17	0825	1611016	11/2017	50,000	50,010		
ICV			0830	1298117	12/2017	12,900	13,220	P	L
CCV	A Kalmbacher	9-5-17	1620	1611016	11/2017	50,000	46,920	P	L
CCV									

Report specific conductance as a whole number with no decimal figure.

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	A Kalmbacher	8-24-17	0831	1607A12	6/2018	7.0	7.0	-15.2		
Calibr.			0841	2702743	1/2019	4.0	4.0	160.9		
Calibr.			0846	2411998	5/2018	10.0	9.99	-188.0		
ICV			0850	1607A12	6/2018	7.0	7.04	-15.1	P	L
CCV	A Kalmbacher	9-5-17	1625			7.0	7.11	-19.4		
CCV										

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU; mV pH7 Range 0 $\pm$ 50;

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

mV pH 10 Range -180 $\pm$ 50; Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly)

Date of Last Depth Verification

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air	A Kalmbacher	8-24-17	0822	0.000	0.0	P	L

ICV acceptance criteria $\pm 5\%$ or $\pm 0.05\text{m}$, whichever is greater

YSI Datasonde Datasheet v1.1 – Deployment

SECN Coastal Water Quality Monitoring

Station Name

Clapboard Creek

Calibration QC Pre-Deployment

Date 8-24-2017

QC'd By

Battery Voltage 11.0

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) 52.3

Battery Life (days) 102

Barometric Pressure 757

pH7 (mv) -15.2

pH10/4 (mv) -188/160.9

Conductivity Cell Constant 5.13242

ODO Gain 1.09597

pH Slope

Parameter	Temp (C)	Sp. Cond.	pH7	pH10	pH4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	24.39	50.00	7.0	10.0	4.0	100	0.0	0.0	126.0
Measured	24.3	50.05	7.64	10.0	4.03	100	0.0	0.2	—
Calibrate		50.01	7.0	9.99	4.0	99.6	0.0	0.2	122.8

Start Time (Sonde) 8:45

File Name CC08242017

Start Date 8-24-2017

Start Time (Actual) 9:45 DST

Deployment Information

Deployed By B. Davis / A. Kelmbacher

Instrument # JEA 1

Date 8-24-2017

Time 0920

Notes

Clear, Sunny, High Incoming tide

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

Observation Description

Recorded By A. Kelmbacher

Computer Entry By A. Kelmbacher

Certified By

YSI Datasonde Datasheet v1.1 – Retrieval

SECN Coastal Water Quality Monitoring

Station Name

Clapboard Creek

Retrieval Information:

Retrieved By:

B. Davis / A. Kalmbacher

Instrument #

JEA1

Date

9-5-2017

Time

1550

Barometric Pressure

761

mmHg

pH7 (mv)

-19.4

pH 10 / 4 (mv)

(sorry, did not record)

Battery Voltage

10.8

Turbidity wiper parked 180°

Y / N

ODO

Y / N

Post Calibration Date

9-5-2017

Cond. Cell Constant

5.13242

pH Slope

Parameter	Temp (C)	Sp. Cond.	pH 7	pH 10	pH 4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	25.0	56.00	7.0	10.0	4.0	100	0.0	0.0	*
Measured	24.9	46.92	7.11	10.04	4.11	100	0.004	0.2	

Fouling presence: Please record type of fouling AND amount (eg A, B, E, / H) * Do not post cal 126 in order to keep clean longer

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-L

External Screen:

N

Temp/Cond:

N

ODO Probe:

N

pH Probe:

N

Turbidity:

N

Comments:

A-L on glass

Outgoing tide

Approaching storm

~90°

Very humid

File Name CC08242017

Any Probe Malfunctions

Y / (N)

If Y, please describe above

Download File

(Y) N

Date

9-6-2017

Initials

AK

Sent Datafile

(Y) N

Date

9-6-2017

Initials

AK

Sent Datasheet

(Y) N

Date

9-6-2017

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 is qualified data on this name.

Meter JEA 2 RQ- Project Clayboard Crk

- Notes: (1) Numbers ≤ 4 , are rounded down; numbers ≥ 5 are rounded up (e.g., 5.15 becomes 5.2).
 (2) Always wait for meter to stabilize before recording any readings.
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site

Temperature (Quarterly) FT 1400 Date of Last Temperature Verification

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	A Kalmbacher	9-5-2017	1300	24.2	8.38	8.38	100	—	1.0482		
ICV			1305	24.2	8.38	8.46	101.2		1.0482	P	L
CCV	A Kalmbacher	9-18-2017	1315	23.8	8.44	8.67	102.7			P	L
CCV											

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

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; 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.	A Kalmbacher	9-5-2017	1310	161101C	11/2017	50,000	50,000		
ICV			1312	1298117	12/2017	12,900	13,180	P	L
CCV	A Kalmbacher	9-18-2017	1330	161101C	11/2017	50,000	48,360	P	L
CCV									

Report specific conductance as a whole number with no decimal figure.

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	A Kalmbacher	9-5-2017	1320	1607A12	6-2018	7.0	7.60	-13.2		
Calibr.			1323	2707722	6-2019	4.0	4.00	161.2		
Calibr.			1325	2611998	5-2018	10.0	9.95	-185.0		
ICV			1329	1607A12	6-2018	7.0	7.02	-14.5	P	L
CCV	A Kalmbacher	9-18-17	1323	1607A12	6-2018	7.0	7.07	-17.1	P	L
CCV										

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU; mV pH7 Range 0 $\pm$ 50;

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

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

Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly)

Date of Last Depth Verification

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air	A Kalmbacher	9-5-2017	1330	0.000	0.001	P	L

ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater

DATA SONDE WAS DEPLOYED DURING HURRICANE IRMA
9/11/17

YSI Datasonde Datasheet v1.1 – Deployment

SECN Coastal Water Quality Monitoring

Station Name

Clayboard Creek

Calibration QC Pre-Deployment

Date 9-5-2017

QC'd By

Battery Voltage 12.8 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) 26.3 Battery Life (days) 117

Barometric Pressure 761 pH7 (mv) -13.2 pH10/4 (mv) -185.0/14 2

Conductivity Cell Constant 5.06493 ODO Gain 1.0326 pH Slope

Parameter	Temp (C)	Sp. Cond.	pH7	pH10	pH4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	24.6	50.00	7.0	10.0	4.0	100	0.0	0.0	126.0
Measured	24.3	50.00	7.02			101.2	0.001	Will not calibrate	
Calibrate		50.00	7.0	9.95	4.0	100	0.0	0.0	for 126

Start Time (Sonde) 13:00

File Name C009052017 Start Date 9-5-2017 Start Time (Actual) 14:00 DST

Deployment Information

Deployed By B. Davis / A. Kalmbacher

Instrument # JEA 2 Date 9-5-2017

Time 1550

Notes

Outgoing tide
Storm approaching ~90°

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

SECN Coastal Water Quality Monitoring

Station Name

Clapboard Crk

Retrieval Information:

Retrieved By:

B. Davis/A. Kalmbacher

Instrument # SEA 2 Date 9-18-2017 Time 10:55Barometric Pressure 760.9 mmHg pH7 (mv) -17.1 pH 10 / 4 (mv) Battery Voltage 12.0 Turbidity wiper parked 180° ☒ Y / ☐ N ODO ☒ Y / ☐ NPost Calibration Date 9-18-2017 Cond. Cell Constant 5.06493 pH Slope

Parameter	Temp (C)	Sp. Cond.	pH 7	pH 10	pH 4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	<u>24.1</u>	<u>50.00</u>	<u>7.0</u>			<u>100</u>	<u>0.0</u>	<u>0.0</u>	
Measured	<u>23.83</u>	<u>48.36</u>	<u>7.07</u>			<u>102.7</u>	<u>0.006</u>	<u>0.7</u>	

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: L A/C/B Temp/Cond: NODO Probe: N pH Probe: N Turbidity: N

Comments:

Very high tide - only about 1' of data sonde housing exposed

Slight breeze Outgoing tide Dry: high 80's

= SONDE WAS DEPLOYED DURING HURRICANE IRMA =

File Name CC09052017

Any Probe Malfunctions

☒ Y / ☐ N

If Y, please describe above

Download File

☒ Y / ☐ NDate 9-18-2017 Initials AK

Sent Datafile

☒ Y / ☐ NDate 9-18-2017 Initials AK

Sent Datasheet

☒ Y / ☐ NDate 9-18-2017 Initials AK

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 is qualified data on this page.

Meter JA1 RQ- NA Project Clapboard Creek

- Notes: (1) Numbers ≤ 4 , are rounded down; numbers ≥ 5 are rounded up (e.g., 5.15 becomes 5.2).
 (2) Always wait for meter to stabilize before recording any readings.
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site _____

Temperature (Quarterly) FT 1400 Date of Last Temperature Verification _____

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	<u>AKalmbacher</u>	<u>9-18-17</u>	<u>0810</u>	<u>23.6</u>	<u>8.48</u>	<u>8.49</u>	<u>100.1</u>	<u>—</u>	<u>1.09118</u>		
ICV			<u>0823</u>	<u>23.6</u>	<u>8.48</u>	<u>8.49</u>	<u>100.1</u>	<u>—</u>	<u>1.09118</u>	<u>P</u>	<u>L</u>
CCV	<u>AKalmbacher</u>	<u>10-2-17</u>	<u>1250</u>	<u>24.3</u>	<u>8.37</u>	<u>8.46</u>	<u>101.2</u>	<u>—</u>	<u>1.09118</u>	<u>P</u>	<u>L</u>
CCV											

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

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; 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>9-18-17</u>	<u>0830</u>	<u>161101C</u>	<u>11/2017</u>	<u>50,000</u>	<u>50,000</u>		
ICV			<u>0835</u>	<u>035864D</u>	<u>12/2017</u>	<u>58,640</u>	<u>59,290</u>	<u>P</u>	<u>L</u>
CCV	<u>AKalmbacher</u>	<u>10-2-17</u>	<u>1255</u>	<u>161101C</u>	<u>11/2017</u>	<u>50,000</u>	<u>49,510</u>	<u>P</u>	<u>L</u>
CCV									

Report specific conductance as a whole number with no decimal figure.

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	<u>AKalmbacher</u>	<u>9-18-17</u>	<u>0841</u>	<u>1607A12</u>	<u>6-2018</u>	<u>7.0</u>	<u>7.0</u>	<u>-15.8</u>		
Calibr.			<u>0843</u>	<u>2707722</u>	<u>6-2019</u>	<u>4.0</u>	<u>4.0</u>	<u>161.1</u>		
Calibr.			<u>0847</u>	<u>2704798</u>	<u>9-2018</u>	<u>10.0</u>	<u>9.9</u>	<u>-188.7</u>		
ICV			<u>0850</u>	<u>1607A12</u>	<u>6-2018</u>	<u>7.0</u>	<u>7.01</u>	<u>-14.9</u>	<u>P</u>	<u>L</u>
CCV	<u>AKalmbacher</u>	<u>10-2-17</u>	<u>1305</u>	<u>1607A12</u>	<u>6-2018</u>	<u>7.0</u>	<u>7.07</u>	<u>-14.3</u>	<u>P</u>	<u>L</u>
CCV										

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU; mV pH7 Range 0 $\pm$ 50;

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

mV pH 10 Range -180 $\pm$ 50; Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly)

Date of Last Depth Verification _____

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air	<u>AKalmbacher</u>	<u>9-18-17</u>	<u>0840</u>	<u>0.000</u>	<u>0.001</u>	<u>P</u>	<u>L</u>

ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater

YSI Datasonde Datasheet v1.1 – Deployment

SECN Coastal Water Quality Monitoring

Station Name
Clapboard Creek

Calibration QC Pre-Deployment

Date 9-18-2017

QC'd By

Battery Voltage 12.7

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) 39.6

Battery Life (days) 117

Barometric Pressure 760.9

pH7 (mv) -15.8

pH10/4 (mv) -188.7/161.1

Conductivity Cell Constant 5.03619

ODO Gain 1.09118

pH Slope

Parameter	Temp (C)	Sp. Cond.	pH7	pH10	pH4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	23.61	50.00	7.0	10.0	4.0	100	0.0	0.0	126.0
Measured	23.62	50.00	7.01			100.1	0.0	-0.1	
Calibrate	—	50.00	7.0	10.0	4.0	100.1	0.0	0.0	125.7

Start Time (Sonde) 10:00

File Name CC09182017 Start Date 9-18-2017 Start Time (Actual) 11:00

Deployment Information

Deployed By B. Davis/A. Kalmbacher

Instrument # JCA1 Date 9-18-2017

Time 0950

Notes

High tide - outgoing
High 80'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

SECN Coastal Water Quality Monitoring

Clapboard Crk

Retrieval Information:

Retrieved By:

BD/ AK

Instrument # JEA1 Date 10-2-2017 Time _____Barometric Pressure 763.9 mmHg pH7 (mv) _____ pH 10 / 4 (mv) _____Battery Voltage 11.9 Turbidity wiper parked 180° ☒ Y ☒ N ODO ☒ Y ☒ NPost Calibration Date 10-2-2017 Cond. Cell Constant 5.03619 pH Slope _____

Parameter	Temp (C)	Sp. Cond.	pH 7	pH 10	pH 4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	23.9	50.00	7.0			100	0.0	0.0	
Measured	24.2	49.51	7.07			101.2	0.05	19.2	

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: L/A External Screen: L/A Temp/Cond: NODO Probe: L/A pH Probe: L/A Turbidity: L/A on wiper

Comments:

* Wiper not parking 180° but tested several times and it is sweeping the optics then parking @ ~ 270°

File Name CC09182017

Any Probe Malfunctions

☒ Y ☒ N

If Y, please describe above

Download File ☒ Y ☒ NDate 10-2-2017 Initials AKSent Datafile ☒ Y ☒ NDate 10-2-2017 Initials AKSent Datasheet ☒ Y ☒ NDate 10-2-2017 Initials AKRecorded By: A. KalmbacherComputer Entry By: A. Kalmbacher

Certified By: _____