

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 1

RQ:

Project:

Clayboard 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.	AKelmbacher	7-15-19	0900	26.3	762.3	8.1	8.08	100.3		1.024	P / F	L / F
ICV			0904	26.4	762.3	8.1	8.06	100.2		1.024	(P) F	(L) F
CCV	AKelmbacher	8-5-19	1050	25.7	760.4	8.2	8.12	99.8		1.024	(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 #	Explr. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab Field
Calibr.	AKelmbacher	7-15-19	0915	719820	12/2019	24,820	24,820	P / F	L / F
ICV			0917	1014138	9/2019	1,413	1,472	(P) F	(L) F
CCV	AKelmbacher	8-5-19	1055	719820	12/2019	24,820	25,200	(P) F	(L) F
CCV								P / F	L / F

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Explr. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab Field
Calibr.						7.				P / F	L / F
Calibr.						4.				P / F	L / F
Calibr.						10.				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 $\pm$ 50;

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

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

If mV are recorded: slope from 7 to 10 _____, 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	AKelmbacher	7-15-19	0905	0.000	0.000	(P) F	(L) F

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

COMMENTS:

SP Cond. - just outside 5% acceptance - Do not currently have 50,000 but must deploy today due to schedule - believe readings will be close to actual sp. cond.

YSI Datasonde Datasheet v1.1 – Deployment

SECN Coastal Water Quality Monitoring

Station Name

Clapboard Creek

Calibration QC Pre-Deployment

Date 7-15-2019

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) 18.9 Battery Life (days) 117

Barometric Pressure 762.3 pH7 (mv) pH10/4 (mv)

Conductivity Cell Constant 4.85925 ODO Gain 1.024 pH Slope

24.82

Parameter	Temp (C)	Sp. Cond.	pH7	pH10	pH4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	26.4	50.00				100	0.0		
Measured	26.5	24.82				100.2	0.000		
Calibrate		24.82				100.3	0.0		

Start Time (Sonde) 9:00

File Name C07152019 Start Date 7-15-2019 Start Time (Actual) 10:00

Deployment Information

Deployed By BD/AK

Instrument # JEA 1 Date 7-15-2019 Time 9:55

Notes

Did not have 50,000umhos cond. std. to calibrate with - used next lowest cond. we had - calibration slightly off acceptance range - (with second std) had to deploy on this date - could not wait for 50,000 to arrive

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

Observation Description

Very hot, clear, high tide - outgoing

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 Creek

Retrieval Information:

Retrieved By:

BD/AK

Instrument # JEA 1 Date 8-5-2019 Time

Barometric Pressure 766.4 mmHg pH7 (mv) pH 10 / 4 (mv)

Battery Voltage 10.4 Turbidity wiper parked 180° Y / N ODO Y / N

Post Calibration Date 8-5-2019 Cond. Cell Constant 5.0716 pH Slope

Parameter	Temp (C)	Sp. Cond.	pH 7	pH 10	pH 4	ODO %	Depth (m)	Turbidity (L)	Turbidity (H)
Standard	25.7					100	0.0		
Measured	25.7					99.8	-0.04		

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: C Temp/Cond: N

ODO Probe: N pH Probe: N Turbidity: N

Comments:

Upon retrieval, found eye bolt tethering rope to sonde completely rusted through - were still able to retrieve sonde!
 Could not deploy JEA 2 because of need to replace hardware which will be done ASAP → (JEA 2 was deployed by late afternoon)

File Name CC07152019

Any Probe Malfunctions

Y / N

Sonde stopped

If Y, please describe above

logging @ 6:45 on 8/3/2019 - battery failure?

Download File

Y / N

Date 8-5-2019 Initials AK

Sent Datafile

Y / N

Date 8-7-2019 Initials AK

Sent Datasheet

Y / N

Date 8-7-2019 Initials AK

Recorded By: AKalmbacher

Computer Entry By: AKalmbacher

Certified By:

8/5/2019