

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: YSI #3

RQ: 2019-02-11-68

Project: LSSR Coast

- 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

02-11-19

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.	P. O'Connor	02-13-19	0735	21.8	760	8.77	8.77	100.0	—	1.09642	P/F	L/F
ICV	✓	✓	0738	21.9	760	8.75	8.78	100.3	—	1.09642	P/F	L/F
CCV	P. O'Connor	02-13-19	1135	17.3	760	9.60	9.68	100.7	—	1.09642	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 μ hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	P. O'Connor	02-13-19	0740	181109	11-2019	1000	1000	P/F	L/F
ICV	✓	✓	0743	180711 B	07-2019	100	103	P/F	L/F
CCV	P. O'Connor	02-13-19	1138	180919	09-2019	50,000	50,812	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 #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	P. O'Connor	02-13-19	0746	2811E61	11-2020	7.0	22.98	7.00	-19.2	P/F	L/F
Calibr.	✓	✓	0750	2810B32	09-2020	4.0	22.58	4.00	158.1	P/F	L/F
Calibr.	✓	✓	0755	2810E55	04-2020	10.0	23.01	9.98	-190.8	P/F	L/F
ICV	✓	✓	0800	2811E61	11-2020	7.0	23.04	7.03	-19.1	P/F	L/F
CCV	P. O'Connor	02-13-19	1140	180919	09-2019					P/F	L/F
CCV	P. O'Connor	02-13-19	1141	2810B32	09-2020	4.0	23.07	4.02	156.3	P/F	L/F

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 _____, 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: 02-11-19

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						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:

BD QC/Scanned 2/19/19