

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: DEP#154181 RQ: 2019-02-28-67 Project: MANDARIN DR. SCI

- 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 02-11-2019

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.	PO Connor	03-04-19	0835	22.9	755.0	8.57	8.57	100.0	-	-	P/F	L/F
ICV	V	V	0840	23.1	755.0	8.56	8.51	99.4	-	-	P/F	L/F
CCV	PO Connor	03-04-19	1550	19.1	755.6	9.25	9.29	100.4	-	-	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.	PO Connor	03-04-19	0842	181102	11-2019	1000	994	P/F	L/F
ICV	V	V	0845	180321A	04-2019	100	100.6	P/F	L/F
CCV	PO Connor	03-04-19	1553	181102	11-2019	1000	1002	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.	PO Connor	03-04-19	0852	2811E61	11-2020	7.00	23.3	7.01	-45.7	P/F	L/F
Calibr.			0855	2811D47	11-2020	4.00	23.3	4.00	135.7	P/F	L/F
Calibr.			0857	2810F55	04-2020	10.00	23.3	9.87	-185.0	P/F	L/F
ICV	V	V	0900	2811E61	11-2020	7.00	23.3	7.20	-42.7	P/F	L/F
CCV	PO Connor		1600	2810F55	04-2020	10.00				P/F	L/F
CCV	PO Connor		1600	2811D47	11-2020	4.00	23.2	3.99	134.3	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: 02-11-2019

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:

MANDARIN DR. SCI
 BT 3/11/19