

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: Pro DSS DES1 RQ: 2020-07-27-10 Project: LSJR North

- 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 6/18/2020

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.	K. McDonald	8/5/20	0850	23.0	760.7	8.6	/	100.1	/	1.068	P/F	D/F
ICV			0851	23.1	760.7	8.6	8.57	100.2	/	1.068	P/F	D/F
CCV	J. Parnish	8/5/20	1550	24.4	760.1	8.3	8.29	100.1	/	1.068	P/F	D/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.	K. McDonald	8/5/20	0853	200407C	04/2021	1000	1000	P/F	D/F
ICV			0855	191025A	11/2020	1413	1402	P/F	D/F
CCV	J. Parnish	8/5/20	1551	200407D	4/21	100	101.8	P/F	D/F
CCV	J. Parnish	8/5/20	1552	191025C	11/20	50000	50245	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.	K. McDonald	8/5/20	0859	2001C31	01/2022	7.00	25.1	7.00	-20.3	P/F	D/F
Calibr.			0901	2910G29	10/2021	4.00	24.8	4.00	161.1	P/F	D/F
Calibr.			0903	2002911	08/2021	10.00	24.9	10.00	-190.6	P/F	D/F
ICV			0905	2910G29	10/2021	4.00	24.9	4.00	159.6	P/F	D/F
CCV			1553	2002911	6/2021	10.00	25.0	9.91	-187.5	P/F	D/F
CCV										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 10 170.3, slope from 4 to 7 181.4 (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: 6/18/2020

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	K. McDonald	8/5/20	0906	0.00	0.00	P/F	D/F

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

COMMENTS:

pH mV slope from 4 $\rightarrow$ 7 was out of range