

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 Quanta

RQ- 2017-11-13-25

Project LSJR BMAP

- 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 1 / 1

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	11-14-17	0805	22.5	8.66	8.64	99.8				
ICV			0809	22.5	8.66	8.63	99.7			P	L
CCV	N. Fredlin	11/14/17	1310	23.2	8.53	8.46	95.7				
CCV				23.3							

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	11-14-17	0810	170720A	8/2018	1,000	1,000		
ICV			0813	170720B	8/2018	100	100	P	L
CCV	N. Fredlin	11/14/17	1315	170720C	10/17	50,000	49999	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		0815	2708360	7/2019	7.0	6.99			
Calibr.			0818	2710816	9/2019	4.0	4.02			
Calibr. ICV			0820	2706031	12/2018	10.0	9.92		P	L
ICV	N. Fredlin	11/14/17	1320	2710816	9/19	4.0				
CCV				2706031		10.0				
CCV	N. Fredlin	11/14/17	1320	2710816	9/19	5.0	3.9		P	L

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	N/A			0.000			

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