

RQ-2018-04-30-06

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 none.

Meter ID:

Li⁺ Ion

Project:

SMP

- 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

3/24/18

DO DEP SOP FT 1500	Name	Date	Time (ET)	Temp. (°C)	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Ben Pishwater	5/2/18	716	23.2	8.54	8.54	100	58		P F	L F
ICV	Ben Pishwater	5/2/18	720	22.96	8.57	8.58	100.3	58		P F	L F
CCV										P F	L F
CCV	J. Ashton	5/2/18	1430	25.1	8.2	8.0	97	58		P F	L F

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 (ET)	Lot #	Expir. Date	Standard μ hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Ben Pishwater	5/2/18	724	2711453	10/19	1,000	1000	P F	L F
ICV	Ben Pishwater	5/2/18	726	1211550	10/19	100	103	P F	L F
CCV								P F	L F
CCV	J. Ashton	5/2/18	1434	2705034	5/19	69000	51247	P F	L F

Report specific conductance as a whole number with no decimal figure.

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time (ET)	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Ben Pishwater	5/2/18	730	177435	10/19	7.0	7.00	-22	P F	L F
Calibr.	Ben Pishwater	5/2/18	732	177759	10/20	4.0	4.00	154	P F	L F
Calibr.	Ben Pishwater	5/2/18	734	173794	5/19	10.0	10.00	-201	P F	L F
ICV		5/2/18	736	177759	10/20	4.0	3.92	159	P F	L F
CCV		5/2/18							P F	L F
CCV	J. Ashton	5/2/18	1437	177435	10/19	7.0	6.89	-17	P F	L F

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU; mV pH7 Range 0 $\pm$ 50; mV pH 4 Range +180 $\pm$ 50;
 mV pH 10 Range -180 $\pm$ 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				0.000			

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

Notes: