

RQ-2017-07-10-11

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 ID:

LH Gus

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 7/11/17

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.	Drew Liddick	7/20/17	744	25.5	8.2	8.2	100	58.4	0.69	P	L
ICV	//	//	746	25.6	8.2	8.1	100	57.4	—	P	L
CCV	//	//	1635	24.5	8.3	8.4	100	57.4	—	P	L
CCV											

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 $\mu\text{mhos/cm}$	Meter Reading $\mu\text{mhos/cm}$	Pass / Fail	Lab / Field
Calibr.	Drew Liddick	7/20/17	748	2610564	10/18	1000	1000	P	L
ICV	//	//	750	2606108	5/18	100	701	P	L
CCV	//	//	1632	2511638	11/17	50 K	49950	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.	Drew Liddick	7/20/17	752	165674	8/18	7.0	7.0	20.3	P	L
Calibr.			754	171241	3/19	4.0	4.0	159.4	P	L
Calibr.			756	164223	7/18	10.0	10.0	196.7	P	L
ICV			758	164223	7/18	10.0	10.0	195.8	P	L
CCV	//	//	1634	171241	3/19	4.0	4.0	151.5	P	L
CCV										

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

7/11/17

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air	Drew Liddick	7/20/17	800	0.000	0.000	P	L

ICV acceptance criteria $\pm 5\%$ or $\pm 0.05\text{m}$, whichever is greater

RQ-2017-07-17-13

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 ID:

AE3

Project:

SMP Mtn

- 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

4/24/17

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.	mett seal	7/20/17	9:00	24.4	8.4	8.4	100	54.3		P	L
ICV	mett sel	7/20/17	9:05	24.4	8.4	8.4	100	54.3		P	L
CCV	mett sel	7/20/17	17:00	22.7	8.6	8.7	101	55.3		P	L
CCV											

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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	mett seal	7/20/17	9:10	2610B64	10/18	1000	1000	P	L
ICV	mett sel	7/20/17	9:12	2606C08	5/18	100	103	P	L
CCV	mett sel	7/20/17	17:00	2511C38	11/17	49195 50000	49196	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.	mett seal	7/20/17	9:15	164856	4/18	7.0	7.3	-27.3	P	L
Calibr.				171241	3/19	4.0	4.0	153.9	P	L
Calibr.				172423	7/18	10.0	10.0	-22.10	P	L
ICV	mett sel	7/20/17	9:30	164223	7/18	10.0	10.0	202.1	P	L
CCV	mett sel	7/20/17	17:01	171241	3/19	4.0	4.0	151.1	P	L
CCV										

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

4/24/17

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air	mett sel	7/20/17	9:15	0.000	2.0	P	L

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