

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD4000)

Bold "X" this box if there is qualified data on this page.

Meter 143734

RQ- 5016-05-09-29

Project Sci. Lochloosa

- 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 Lab

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 4/2016

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.	J. Grventzel	5/11/2016	0731	24.32	8.37					P	L
ICV	J. Grventzel	5/11/2016	0733	24.28	8.37	8.36	99.8	-	-	P	L
CCV	J. Grventzel	5/11/2016	1644	24.50	8.34	8.49	101.8	-	-	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.	J. Grventzel	5/11/2016	0735	1160216A	2/2017	1000	1001	P	L
ICV	J. Grventzel	5/11/2016	0736	1160216B	8/2016	100	101	P	L
CCV	J. Grventzel	5/11/2016	1646	1160216A	2/2017	1000	997	P	L
CCV	J. Grventzel	5/11/2016	1647	1160216B	8/2016	100	98	P	L

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.	J. Grventzel	5/11/2016	0736	2509677	8/17	7.0		-	P	L
Calibr.	J. Grventzel	5/11/2016	0739	2509674	9/2017	4.0	3.94	-	P	L
Calibr.						10.0				
ICV	J. Grventzel	5/11/2016	0742	2510A88	4/17	10.0	9.89	-	P	L
CCV	J. Grventzel	5/11/2016	1648	2509677	8/17	7.0	6.94		P	L
CCV	J. Grventzel	5/11/2016	1658	2510A88	4/17	10.0	9.69	-	F	L

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 4/2016

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

Scanned 5/17/16

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD4000)

Boldly "X" this box if there is qualified data on this page.

Meter **Y81556 #1**

RQ- **2016-05-09-29**

Project **Gville SCI**

- 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 **04/2016**

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.	PO'Connor	05/11/16	0700	23.7	8.46	8.47	100.0	-	-	Pass	LAD
ICV	↓	↓	0710	23.7	8.46	8.47	100.0	-	-	Pass	LAD
CCV	PO'Connor	05/11/16	1522	24.3	8.37	8.35	99.7	-	-	Pass	LAD
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.	PO'Connor	05/11/16	0712	160216A	02/2017	1000	1000	Pass	LAD
ICV	↓	↓	0714	↓	↓	↓	1001	Pass	LAD
CCV	PO'Connor	05/11/16	1530	1602	08/2016	100	102	Pass	LAD
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.	PO'Connor	05/11/16	0716	2509677	08/2017	7.0	7.00	-37.6	Pass	LAD
Calibr.	↓	↓	0722	2509F74	09/2017	4.0	4.00	-38	Pass	LAD
Calibr.	↓	↓	0725	2510A88	04/2017	10.0	9.98	-210	Pass	LAD
ICV	↓	↓	0730	2509677	08/2017	7.0	7.04	-37.9	Pass	LAD
CCV	PO'Connor	05/11/16		2510A88	04/2017	10.0	9.95	-210.1	Pass	LAD
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 180mV

Depth (Quarterly)

Date of Last Depth Verification **N/A**

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