

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 VSI 54 RQ- 2017-10-16-28 Project McRose Lake

- 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.

Ci/cle/Fill In: Lab Calibration or Calibration/Verification on Site _____

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

10/10/17

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.	PO con	10-24-17	0700	23.1	8.46	8.46	99.9	61.4	1.029	P	C
ICV	✓	✓	0710	23.1	8.46	8.45	99.8	61.4	1.029	P	C
CCV	B-TC	10/24/17	1440	22.4	8.67	8.76	101.0	61.4	1.09	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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	PO con	10-24-17	0712	170720A	08-10-18	1000	1000	P	CAD
ICV	✓	✓	0714	170720B	08-10-18	100	104	P	CAD
CCV	B-TC	10/24/17	1443	170720A	8/18	1000	999	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.	PO con	10-24-17	0718	2707656	06-20-19	7.0	7.00	-25.0	P	C
Calibr.	✓	✓	0720	2707656	06-20-19	4.0	4.00	154.8	P	C
Calibr.	✓	✓	0723	2704980	09-20-18	10.0	9.97	-178.1	P	C
ICV	✓	✓	0725	2707656	06-20-19	7.0	7.06	-26.7	P	C
CCV	B-TC	10/24/17	1445	2707722	6/19	7.0	4.01	152.7	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 _____

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

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

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Meter YSI #3

RQ- 2017-10-23-08

Project Interim

- 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

10/10/17

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.	J. Parnish	10/24/17	721	23.3	8.53	8.32	100	64.5	-	P	L
ICV	J	L	723	23.5	8.50	8.47	99.7	64.5	-	P	L
CCV	J. Parnish	10/24/17	1340	22.0	8.74	8.74	99.6	64.5	-	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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	J. Parnish	10/24/17	725	170710A	8/18	1000	1000	P	L
ICV	J	L	730	8147001	3/18	147	146	P	L
CCV	J. Parnish	10/24/17	1342	170720B	8/18	188	98	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.	J. Parnish	10/24/17	731	2704798	9/18	7.0	7.0	27	P	L
Calibr.	J	L	732	2707772	6/19	4.0	4.0	142.5	P	L
Calibr.	J	L	733	2704798	9/18	10.0	10.0	192.5	P	L
ICV	J	L	734	2707696	6/19	7.0	7.04	26	P	L
CCV	J	L	1343	2707772	6/19	4.0	4.1	135	P	L
CCV										

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU;

mV pH7 Range 0 $\pm$ 50;

mV pH4 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

10/10/17

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air	J. Parnish	10/24/17	735	0.000	0.006	P	L

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

BD 10/30/17