

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

Meter ID: **YSI 71**

RQ: **2018-07-09-13**

Project: **MEIROSE LAKES**

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

- Notes: (1) Always wait for meter to stabilize before recording any readings.
 (2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).
 (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

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.	P O'Connor	07-10-18	0715	24.0	8.41	8.42	100.0	-	1.0228	(P) F	(L) F
ICV			0718	24.1	8.40	8.41	100.0	-	1.0228	(P) F	(L) F
CCV	B D	7/10/18	1608	24.9	8.27	8.25	97.6	-	1.0228	(P) F	(L) F
CCV										P / F	L / F

DO Acceptance criteria from Table ± 0.3 mg/L.

Optical: DO gain range 0.85 to 1.15; DO charge N/A.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.
 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.	P O'Connor	07-10-18	0720	180321B	04-2019	1000	1000	(P) F	(L) F
ICV			0725	180321A	04-2019	100	105	(P) F	(L) F
CCV	B D	7/10/18	1610	180321B	4/19	1000	976	(P) F	(L) F
CCV								P / F	L / F

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.	P O'Connor	07-10-18	0727	2803E45	03-2020	7.0	7.00	-20.3	(P) F	(L) F
Calibr.			0730	2711517	10-2019	4.0	4.00	151.0	(P) F	(L) F
Calibr.			0733	2711527	04-2019	10.0	10.00	190.8	(P) F	(L) F
ICV			0735	2803E45	03-2020	7.0	7.02	-21.1	(P) F	(L) F
CCV	B D	7/10/18	1614	2711517	10/20	4.0	4.02	149.7	(P) F	(L) F
CCV									P / F	L / F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ;

mV pH 4 Range $+180 \pm 50$;

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 _____, slope from 4 to 7 _____ (both must be between 165 and 180 mV)

Is meter equipped with depth sensor? Yes / No If yes, list date of last quarterly depth verification

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value meters	Pass / Fail	Lab / Field
Pressure mode in air						P / F	L / F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

QC/Scanned 7/17/18 JP 7/13/18

H2504
 LOT# SA0005170
 EXP: 03/26/19

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:

P70 PSS

RQ:

2018-06-25-08

Project:

LSJR West 2

Notes: (1) Always wait for meter to stabilize before recording any readings.

(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).

(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

Factor

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	7/10/18	720	22.9	8.60	8.60	100	—	—	P/F	L/F
ICV	J		722	22.9	8.60	8.60	100	—	—	P/F	L/F
CCV	A Kalmbacher	7-10-18	1305	24.4	8.35	8.36	100.1	—	—	(P) F	(L) F
CCV										P/F	L/F

DO Acceptance criteria from Table ± 0.3 mg/L.

Optical: DO gain range 0.85 to 1.15; DO charge N/A.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

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 Parnish	7/10/18	725	180321B	4/19	1000	1000	P/F	L/F
ICV	J	7/10/18	727	171129B	12/18	100	99	P/F	L/F
CCV	A Kalmbacher	7-10-18	1310	180321B	4-19	1000	993	(P) F	(L) F
CCV								P/F	L/F

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	7/10/18	731	2711C81	11/19	7.0	7.0		P/F	L/F
Calibr.	J		733	2711517	10/19	4.0	4.0		P/F	L/F
Calibr.	J		735	2711522	4/19	10.0	10.0		P/F	L/F
ICV	J		736	2711C91	4/19	7.0	7.04		P/F	L/F
CCV	A Kalmbacher	7-10-18	1314	2711517	10/2019	4.0	4.02	1140.2	(P) F	(L) F
CCV									P/F	L/F

pH Acceptance criteria ± 0.2 SU;

mV pH 7 Range 0 $\pm$ 50;

mV pH 4 Range +180 $\pm$ 50;

mV pH 10 Range -180 $\pm$ 50;

If mV are recorded: slope from 7 to 10 _____, slope from 4 to 7 _____ (both must be between 165 and 180 mV)

Is meter equipped with depth sensor? Yes / No If yes, list date of last quarterly depth verification

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value meters	Pass / Fail	Lab / Field
Pressure mode in air	J Parnish	7/10/18	731	0.00	0.00	P/F	L/F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

BP QC / Scanned 7/17/18 JP 7/13/18