

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

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

Meter ID: old man Senkley

RQ: 2021-11-22-32

Project: Highland Lakes

- 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.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 08/16/21

DO DEP SOP FT 1500	Name	Date	Time C/F	Temp °C	Baro-meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Thomas Baker	11/30/21	0700	24.1	764.5	8.5	8.45	100.6		1.02290	P/F	L/F
ICV	Thomas Baker	11/30/21	0702	24.1	764.5	8.5	8.48	100.9			P/F	L/F
CCV	Thomas Baker	11/30/21	2 1738	22.6	763.8	8.7	8.68	100.6			P/F	L/F
CCV											P/F	L/F

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 (Pro DSS 0.75 to 1.50); DO charge N/A. Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time C/F	Lot #	Expi. Date	Standard umhos/cm	Meter Reading umhos/cm	Pass / Fail	Lab / Field
Calibr.	Thomas Baker	11/30/21	0705	1108C98	8/23	2500	2500	P/F	L/F
ICV	"	11/30/21	0708	2109K87	9/23	1000	98.6	P/F	L/F
CCV	Thomas Baker	11/30/21	1440	1108C98	8/23	2499	2499	P/F	L/F
CCV						25		P/F	L/F

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1400	Name	Date	Time C/F	Lot #	Expi. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Thomas Baker	11/30/21	0710	2107C00	7/23	7.00	24.1	7.01		P/F	L/F
Calibr.	"	"	0712	2110B40	9/23	4.01	24.0	4.00		P/F	L/F
Calibr.	"	"	0716	2109H76	3/23	10.00	24.1	10.01		P/F	L/F
ICV	Thomas Baker	11/30/21	0720	2110B40	9/23	4.01	24.03	3.97		P/F	L/F
CCV	Thomas Baker	11/30/21	1442	2109H76	3/23	10.02	23.9	10.05		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)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: _____

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: 33124; Date of last verification: 08/16/21

Depth Sensor (Daily Calibration ICV)	Name	Date	Time C/F	Calibrated Value (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: