

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:

Cherry

RQ:

2019-06-10-15

Project:

Ref Lake

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

5/14/19

DO DEP SOP FT 1500	Name	Date	Time CT-ET	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.	Ben Paswater	6/1/19	726	23.7	761.4	8.46	8.42	100.2			P/F	L/F
ICV	Ben Paswater	6/1/19	728	23.7	761.5	8.46	8.48	100.2			P/F	L/F
CCV	MB		1408	26.6	761.0	8.0	8.25	102.8			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 CT-ET	Lot #	Expir. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Ben Paswater	6/1/19	735	2904947	3/21	1,000	1,000	P/F	L/F
ICV	Ben Paswater	6/1/19	735	2902E32	2/21	100	100	P/F	L/F
CCV	MB		1410	2810C41	10/20	500	502	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	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Ben Paswater	6/1/19	746	188510	1/21	7.	23.3	7.00	-18	P/F	L/F
Calibr.	Ben Paswater	6/1/19	748	187188	11/20	4.	23.4	4.00	161	P/F	L/F
Calibr.	Ben Paswater	6/1/19	750	185496	9/20	10.	23.4	10.00	-194	P/F	L/F
ICV			752	187188	11/20	40	23.4	4.01	161	P/F	L/F
CCV	MB		1412	188510	1/21	10.0	23.5	10.00	-193	P/F	L/F
CCV				185490						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 -176, slope from 4 to 7 -179 (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:

5/14/19

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID:

5/14/19

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: