

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

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

Meter ID: MY BOY BLUE RQ- 2023-01-08-55 Project: SM - CONT MONT

HAB-RESE

- 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 10/10/22

DO DEP SOP FT 1400	Name	Date	Time CFT	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.	BARRINGTON	1/4/22	0709	23.5	763.0	8.4	8.40	100.4	-	1.2	(P) F	(L) F
ICV	↓	↓	0711	23.5	762.9	8.4	8.39	100.4	-	-	(P) F	(L) F
CCV	William Miller	1/14/23	1100	24.2	764.2	8.4	8.26	105.92			P (F)	L (F)
CCV	Monica Jaeger	1/18/23	1230	20.3	762.7	9.1	9.65	102.3			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 CFT	Lot #	Expr. Date	Standard umhos/cm	Meter Reading umhos/cm	Pass / Fail	Lab / Field
Calibr.	BARRINGTON	1/4/22	0713	1107981	7/23	10,000	10,000	(P) F	(L) F
ICV	↓	↓	0715	220309	3/23	80,000	50201	(P) F	(L) F
CCV	C. William Miller	1/14/23	1103	2207695	7/24	100	92.3	(P) F	(L) F
CCV	Monica Jaeger	1/18/23	1219	220309	3/23	50,000	50001	(P) F	(L) F

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1400	Name	Date	Time CFT	Lot #	Expr. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	BARRINGTON	1/4/22	0717	2208554	5/24	7.	21.5	7.02	-52.8	(P) F	(L) F
Calibr.	↓	↓	0719	2207815	6/24	4.	20.8	4.00	116.7	(P) F	(L) F
Calibr.	↓	↓	0721	4208571	2/24	10.	20.4	10.05	-202.7	(P) F	(L) F
ICV	↓	↓	0723	2207815	6/24	4	20.4	4.05		(P) F	(L) F
CCV	C. William Miller	1/14/23	1107	2207815	4/24	4.0	20.2	4.19		(P) F	(L) F
CCV	Monica Jaeger	1/18/23	1227	4208571	2/24	10.00	20.8	10.18		(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 10 169.5 slope from 4 to 7 174.9 (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: 8/29/22

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: 3312B; Date of last verification: 8/29/22

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CFT	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: 2 Quarterly DO CCV done in field 01/04/23