

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: FRIDAY

RQ: 2022-06-27-47

Project: HAB RESPONSE

- 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 7/13/22

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.	BARRINGTON	9/8/22	0800	23.3	752.3	8.4	8.45	99.0	-	1.15	(P/F)	(L/F)
ICV	↓	9/8/22	0802	23.3	752.5	8.4	8.46	99.1	-	-	(P/F)	(L/F)
CCV	BARRINGTON	9/8/22	1546	27.8	752.7	7.8	7.94	100.3	-	-	(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.	BARRINGTON	9/8/22	0804	220858	7/24	2500	2500	(P/F)	(L/F)
ICV	↓	↓	0806	2112628	12/23	100	102.3	(P/F)	(L/F)
CCV	BARRINGTON	9/8/22	1842	1107981	7/23	19000	9987	(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	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	BARRINGTON	9/8/22	0808	2208654	5/24	7.	21.7	7.02	228	(P/F)	(L/F)
Calibr.	↓	↓	0810	2206861	5/24	4.	21.3	4.00	1460	(P/F)	(L/F)
Calibr.	↓	↓	0812	2204472	8/23	10.	22.0	10.03	-199.7	(P/F)	(L/F)
ICV	↓	↓	0814	2206861	5/24	4	21.4	3.98	-	(P/F)	(L/F)
CCV	BARRINGTON	9/8/22	1344	2204472	8/23	10	22.0	10.11	-	(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 10 157.1, slope from 4 to 7 188.8 (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: 33123; Date of last verification: 8/29/22

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: