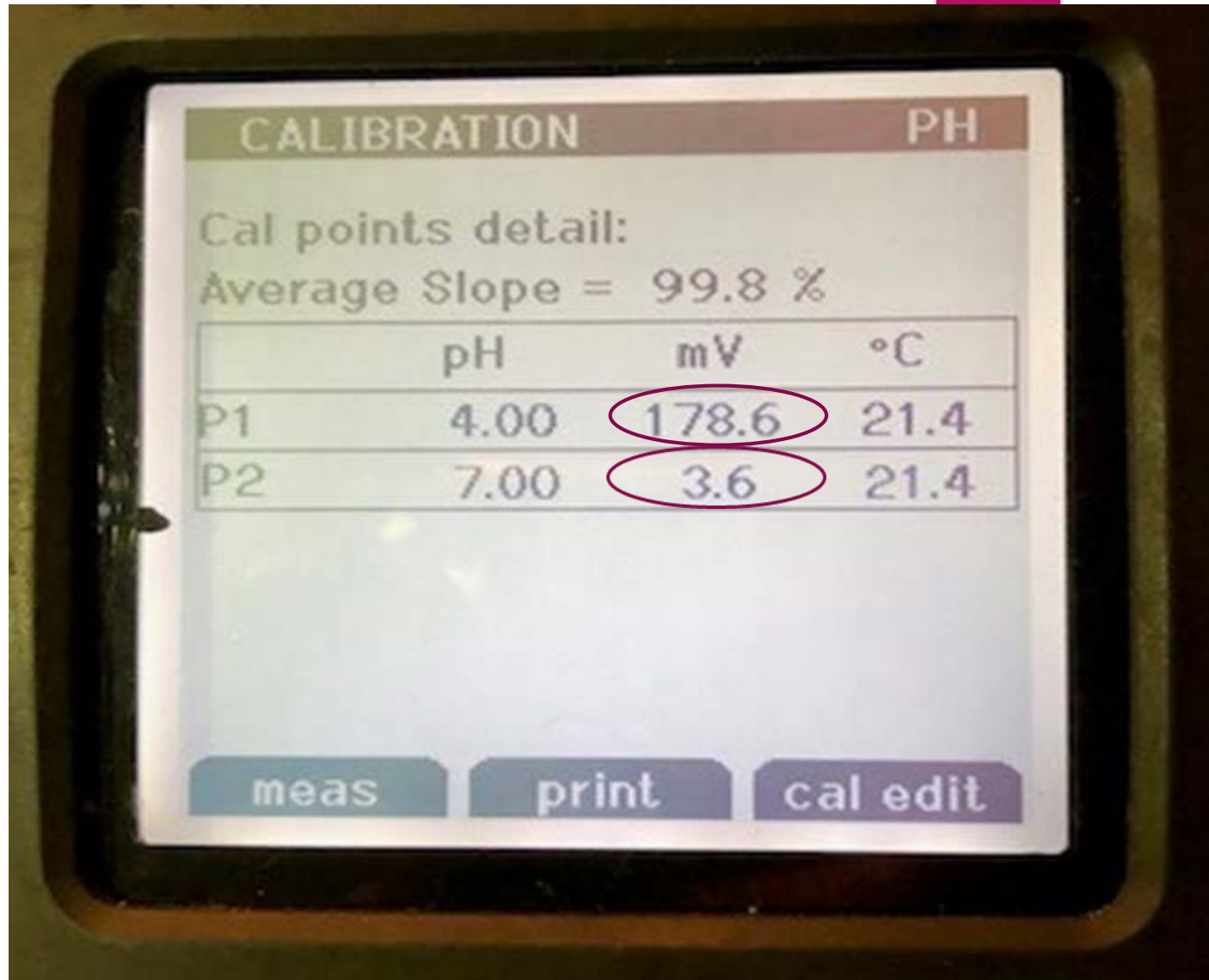
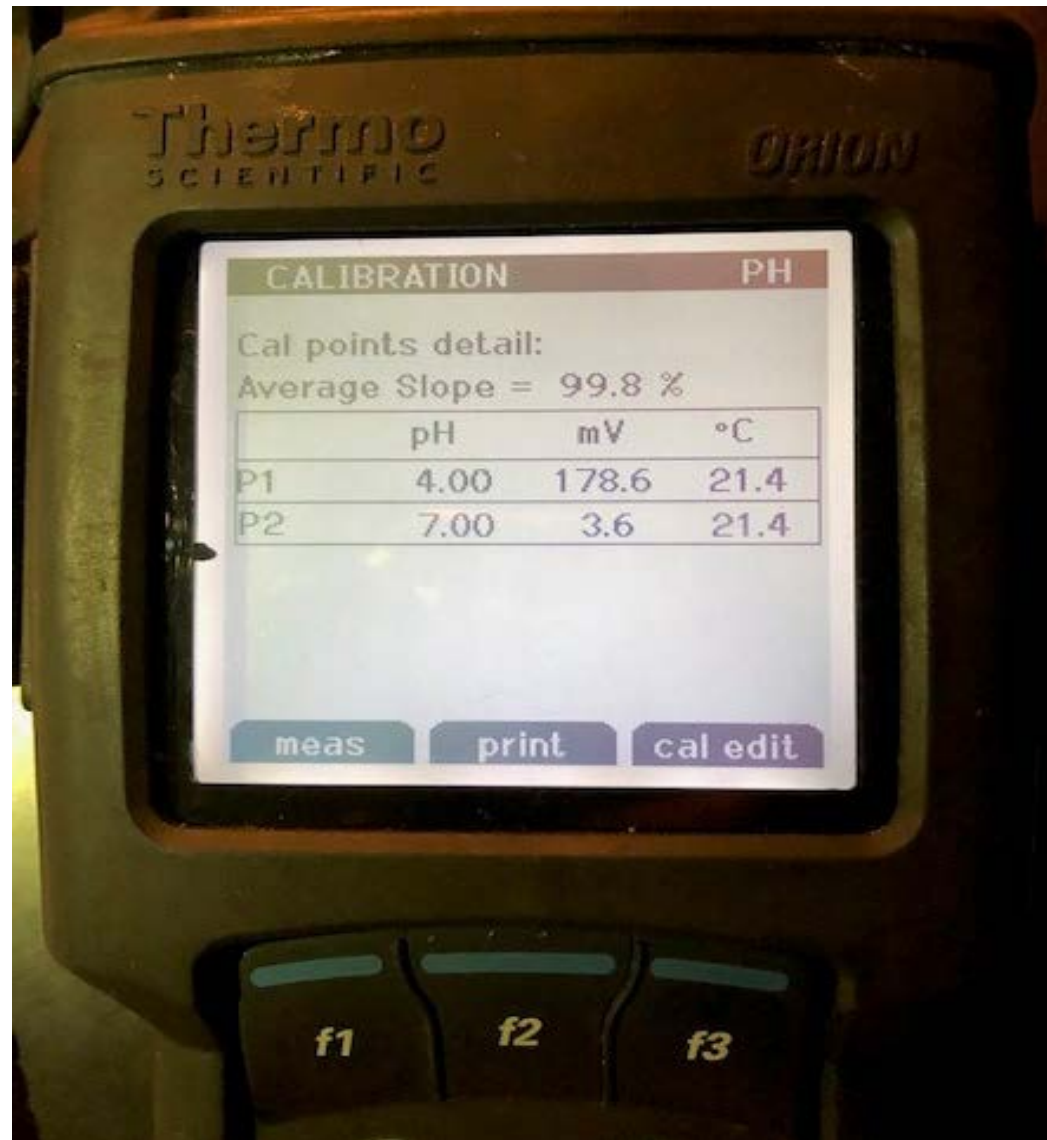


# pH Millivolts Verification

# pH millivolts calibration check

- ▶ Determine if pH probe is functioning adequately
- ▶ Millivolts (mV) should range from -30 to +30 for the pH 7 solution
- ▶ mV should range from +150 to +210 for the pH 4 solution
- ▶ If a probe reads out of these ranges this can help us determine the life expectancy left on probe





Analyst: \_\_\_\_\_ Date: \_\_\_\_\_

Team #:

Meter Calibration Sheet

EQL Meter ID: \_\_\_\_\_ Type: Orion Star A329 Serial#: \_\_\_\_\_

pH							Optional						
Calibration							Laboratory Check Standard (LCS) Check						Standard Lot # / Expiration date
Std (pH)	Time	Temp (°C)	Pre reading	Post reading	Acceptance Range	QC Result	Std (pH)	Time	Temp (°C)	Reading	Acceptance Range	QC Result	pH 4:
7.00					6.90 to 7.10	In/Out	6.00				5.90 to 6.10	In/Out	pH 6:
4.00					3.90 to 4.10	In/Out							pH 7:
Calibration Slope					92 to 100%	In/Out							
Std 4.00 mV		+				+150 to +210 mV	In/Out						
Std 7.00 mV		+ / -				-30 to +30 mV	In/Out						
Comments (Including Corrective Action for out of control QC Results):													

CONDUCTIVITY/SALINITY							Optional						
Calibration							Laboratory Check Standard (LCS) Check						Standard Lot # / Expiration date
Std (µS/cm)	Time	Temp (°C)	Pre reading	Post reading	Acceptance Range	QC Result	Std (µS/cm)	Time	Temp (°C)	Reading	Acceptance Range	QC Result	Calibration:
						In/Out						In/Out	LCS:
Comments (Including Corrective Action for out of control QC Results):													

DISSOLVED OXYGEN							Optional						
Calibration (Water Saturated Air)							LCS Check (Air-Saturated Water)						Dissolved Oxygen Cap
True Value	Time	Temp (°C)	Pre reading	Post reading	Acceptance Range	QC Result	True Value	Time	Temp (°C)	Reading	Acceptance Range	QC Result	Date last replaced:
100%					90-110%	In/Out	100%				90-110%	In/Out	Date to be next replaced:
												Hanna meter only	
												Date electrolyte last replaced:	
Comments (Including Corrective Action for out of control QC Results):													

QA Reviewer: \_\_\_\_\_ Date: \_\_\_\_\_

pH						
Calibration						
Std (pH)	Time	Temp (°C)	Pre reading	Post reading	Acceptance Range	QC Result
7.00					6.90 to 7.10	In/Out
4.00					3.90 to 4.10	In/Out
% Calibration Slope					92 to 102%	In/Out
Std 4.00 mV		+			+150 to +210 mV	In/Out
Std 7.00 mV		+ / -			-30 to +30 mV	In/Out

Remember to circle the + or - sign when recording the pH 7 mV

pH

Calibration

Std (pH)	Time	Temp (°C)	Pre reading	Post reading	Acceptance Range	QC Result
7.00	12:00	21.4	6.99	7.00	6.90 to 7.10	In/Out
4.00	12:05	21.4	3.99	4.00	3.90 to 4.10	In/Out
% Calibration Slope		99.8 %			92 to 102%	In/Out
Std 4.00 mV		+	178.6		+150 to +210 mV	In/Out
Std 7.00 mV		+ / -	3.6		-30 to +30 mV	In/Out