METALS GROUP PIPETTE CALIBRATION CHECK SPREADSHEET

Analyst:		Balance:	
Temp.°C		Thermometer:	
		Date:	
Water Density (in g/mL)			

Corrective Action Required for Failing Pipets

See Corrective Action Tab for Resolution

INSTRUCTIONS:
Enter the water temperature to the **nearest 0.5 deg.** and the weight of the 5 replicates of water dispensed by the pipette. The density is automatically entered upon entering the temperature.

Adjustable Pipettes; If one of the bracketed weights exceeds tolerance, all weight for that pipette will need corrective action.

Pipet ID #	Pipet Location	Vol. in uL	Measurement 1		Measurement 2		Measurement 3		Measurement 4		Measurement 5		Mean Vol. (uL)	RSD of Vol. (uL)	% Difference	% Difference PASS/FAIL	% RSD PASS/FAIL
			Weight (g)	Vol. (uL)	Weight (g)	Vol. (uL)	Weight (g)	Vol. (uL)	Weight (g)	Vol. (uL)	Weight (g)	Vol. (uL)					
Fixed volume Pipette [100uL - 2500uL]																	
Adjustable volume Pipette [10uL - 100uL]																	
Adjustable volume Pipette [100uL - 1000uL]																	
Adjustable volume Pipette [1000uL - 10000uL]																	
Adjustable volume Bottle Top Pipetter [1000uL - 100,000uL] - Checked Quarterly																	

% Difference for Fixed volume Pipette	
100uL - 2500uL	0.60%

% RSD for Fixed volume Pipette	
100uL - 2500uL	5.00%

% Difference for Adjustable volume Pipette	
10uL - 100uL	
10	3.00%
50	1.00%
100	0.80%

% RSD for Adjustable volume Pipette	
10uL - 100uL	
10	20.00%
50	10.00%
100	5.00%

% Difference for Adjustable volume Pipette	
100uL - 1000uL	
100	3.00%
500	1.00%
1000	0.60%

% RSD for Adjustable volume Pipette	
100uL - 1000uL	
100	20.00%
500	10.00%
1000	5.00%

% Difference for Adjustable volume Pipette	
1000uL - 10000uL	
1000	3.00%
2000	3.00%
5000	1.00%
10000	0.60%

% RSD for Adjustable volume Pipette	
1000uL - 10000uL	
1000	20.00%
2000	20.00%
5000	10.00%
10000	5.00%

% Difference for Bottle Top Pipetter	
1mL -100mL	10.00%

% RSD for Bottle Top Pipetter	
1mL -100mL	5.00%