

UNCERTAINTY MEASUREMENT WORKSHEET

Job Request No.: _____
 Tagging no. : _____
 Meter Identifier : _____

Date: _____
 Testing Flowrate : _____ L/H
 Cal. Method : _____

Uncertainty Budget Table											
Symbol	Description of Source	Std Unc Value		Type (A/B)	Distribution Type	Sensitivity Coeff		DOF	Standard Uncertainty	$(u_i c_i)^2$	$(u_i c_i)^4 / v_i$
		u_i	units			c_i	units				
SUM											
Combined Standard uncertainty = square root of the sum of $(u_i c_i)^2$, U_c											
Effective degrees of freedom = $(U_c)^4 / \text{sum of } (u_i c_i)^4 / v_i$ (Welch Satterthwaite equation)											
Coverage factor = Student's t for V_{eff} and CL 95% , k											
Expanded Uncertainty @ 95 % CL, $U_{95} = k u_c$											

Note:

1. Other uncertainty components with minimal effects to the whole measurement process such as the effect of water temperature, pressure, etc. are not included in the uncertainty computation.
2. Computation was based on EA-4/02 Evaluation of the Uncertainty of Measurement in Calibration M:2013

Cal. Officer: _____

Checked by: _____