## **CHEM 222 Unknown Reporting**

As you report your unknowns, be sure to use the units below. Remember, when calculating percent, the following conventions hold:

% w/w	=	mass component in grams	_ X	100%
		mass mixture in grams		
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% w/v	=	mass component in grams	_ X	100%
		volume mixture in mL		
% v/v	=	volume component in mL	Х	100%
		volume mixture in mL		

It is critical to keep track of, and account for, all dilutions that occur in taking your original sample to the form that was measured in the analysis.

Experiment	Units to Report	
KHP	% w/w KHP in your solid sample	
Magnesium	% w/v Mg in the 100 mL volume you dilute the sample to. (% w/v = 100% x g Mg/mL solution)	
Nickel	% w/w nickel in the solid sample	
K <sub>a</sub>	Equivalent weight (g acid/mol OH <sup>-</sup> neutralized)	
Iron	% w/w Fe in your original sample	
Fluoride	% w/v $F^{-}$ in the 100 mL volume you dilute the sample to. (% w/v = 100% x g $F^{-}$ mL solution)	
Lead	% w/w Pb in your solid sample	
GC	% v/v ethanol in your original sample	