Report Sheet: Gravimetric Analysis CHEM 101

CAPILANO UNIVERSITY

Department of Chemistry

LAST NAME: _____ SEC # _____ LOCKER # _____

FIRST NAME: _____ DATE: _____

Record all data in ink (blue or black only) at the appropriate location on this report sheet. All entries must be original and legible, and all corrections must be made in the acceptable way, with your lab supervisor's initials. Do not drop "leading zeroes". Show all calculations clearly and neatly. Failure to comply with these conditions will result in a loss of marks.

Desicooler Number: _____

Part A Identification of an Unknown Hydrate

RAW DATA

- mass of empty crucible: _____ g
- mass of empty crucible + pure hydrated compound: _____ g

∴ **mass of pure hydrated compound:** _____ g

- mass of crucible after heating: _____ g

∴ **mass of water lost:** _____ g

CALCULATION AND CONCLUSION:

Calculate the **% water** in the original pure hydrated compound:

_____ % H_2O

What is the most likely identity of your assigned unknown pure hydrate, based on comparison of your experimental result to Table 4.1 in the lab manual? *Please write the chemical formula and not the name of the hydrate.*

Chemical Formula of Hydrate = _____