CHEM 1105: ANALYSIS OF BLEACH

Name:	Date:	Section

Objective:

Procedure:

As in KPU CHEM1105 lab manual, pages ______.

Observations:

Data:

Table 1. Titration Data Molarity of $Na_2S_2O_3$ solution: _____

Volume of the diluted bleach pipetted: _____

	Run 1	Run 2	Run 3
Initial Buret Reading			
Final Buret Reading			
Volume added			
End Point Description			

Table 2. Gravimetric Analysis

Mass of 25 mL stoppered Erlenmeyer flask (g)	
Mass of stoppered Erlenmeyer flask & liquid (g)	
Mass of 15.00 mL liquid ONLY (g)	
Volume of the undiluted bleach pipetted (mL)	

Calculations:

Part-1

1. Determine the number of moles of iodine (I_2) in each titration run.

Run 1 (show calculation):

Run 2: _____

Run 3: _____

2. Determine the number of moles of hypochlorite ion (ClO⁻) in your 10.00 mL diluted sample of bleach.

Run 1 (show calculation):

Run 2: _____

Run 3: _____

3. Calculate the average number of moles

4. Determine the molarity (in terms of ClO⁻) in the original undiluted sample of bleach.

Part-2

1. Calculate the density of undiluted bleach sample.

2. Using the calculated density, determine the % (by mass) of NaOCl in your original undiluted sample of bleach.

Conclusion:

Questions:

Attach the questions assigned by your Instructor.