	(-
	() Dys	Primer	7+NO	5
(.6)		0 0	1	
V D	servat	tion) all	20
	900	00	-	

Jable 1 Titration of hypo solution as quien CuSO4 solution

Indicaton-Starch Endpoint-Blue to Colowiless

76%				
S.NO	Volume of Cuso4 soin	i Burette Initial	Readings I final	Volume of his po
1	10.0	0.0	9.0	9.0
2	10.0	9.0	18.0	9,0
3	10.0	18.0	27.0	9.0
	5.No 1 2 3	1 10.0 2 10.0	1 10.0 0.0 2 10.0 9.0	1 10.0 0.0 9.0 2 10.0 9.0 18.0

Concordant Readings: 9.0ml

		Date
Exp	ot. No	Page No
	Expereme	nt, 6:>05.
1:)	Sime So determine the source of Standard N/40 Cust	toungth of force chlorine in Rockmeth force chlorine in Rockmeth finally. Given of Standardise
2.	Apparatus Requireds Bur	ette, Pipette, Measuring flisks
		olution (10%), Hyposolution ution Greshly/prepared,
3.	Lunter somple cuin	powerful Oxidising agent pule. Let is midely Jused potable 2-minicipal plies to Iremove bacteria
	- Harry as a one par	ng pouder or chlorine gas
	concentrated salutic	es in water almost orm hypocherous acid-
	Completely to	Teacher's Signature

Jable 2:-> Titration of hyposolution us given water sample .

Inclicator: > Starch

Endpoint: > Blue to Colownless

1 260

DIOD.	Other			
SiNo	Volume of Water Sample		eadings Sinal	Volume of Hypo soln (in mL)
	taken	Onucoo	Julian	
1	10.0	0.0	3.5	3.5
	10.0	3.5	7.0	3.5
2		7.0	10.5	3.5
3	10.0			

Concordant Reading = 3.5mL

Cl2 + H20 -> 70 Cl+ 120 + Clo

HOCI dissociates into H® le OCI (hypochlorite ion) in the reversible reaction

Hocl⇒ Hoclo

HOUS a weak acld with pka = 7.5 at 25°C HOUS the prime disinjecting agents is therefore dominant at 1 Joh < 7.5 69 is a more effective assintectant than occordinates of at ph > 7.5.

En dilute solutions le at pH 4, very little molecular schloune exists in soln.

The determination of available phlorine is done by treating I the known volume of sample I with I an excess of a solution of k.T. The tree chlorine present I'm water oxidises the corresponding amount of kI to I she liberated I by estimated I by attrating against standard hypo I bolition, Justing starch as ondicated.

Calculations

$$N_1V_1 = N_2V_2$$

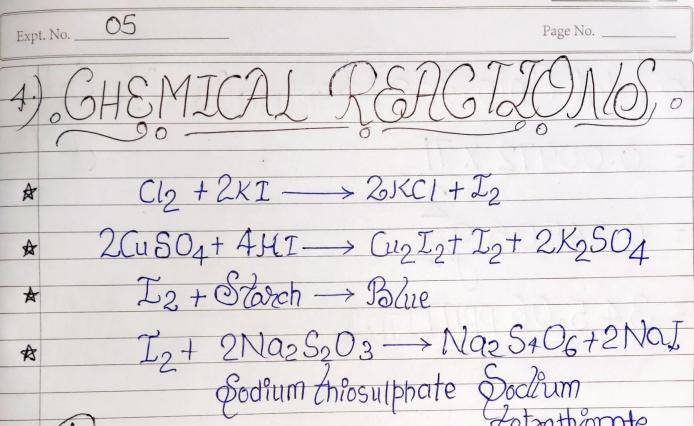
 $\frac{10}{40} = N_2 \times 9$
 $N_2 = \frac{1}{36}N$

$$N_3 \times 10 = \frac{1}{36} \times 3.5$$

$$N_{Hypo}(N_2)=$$
?
 $V_{Hypo}(V_2)=$ 9 mL

(VHYPO(V4=3.5mL)

(N4=N2)



Doceclu C.

Handardization of Hypo soln with given Cusoq

In conical I flask said Imf of KISOLD of Altrate Juith hypo follution till flash said Imf of KISOLD of Altrate Juith hypo follution till flash yellow colony I develop f. At this point add I i-2 duops of starch as indicator with examination will turn while. Ditate turther with hypo to colourloss as end point. Note I wolume of hypo solution as

Teacher's Signature _

Total Chlosine Residuals = N3 x Eglit 0.00972 x 71 = 0.34506 g/L = 3.45.06 ppm Ans

	Date
Expt. No. <u>05</u>	Page No.
\mathcal{I}	
Solution of given water of	ample with hypo
e ake 10 ml of given water of	sample from bipette
& thrate Junt hypo	Solution til
point add 1-2 drops of	I starch as indicated
a and point Note wolume	Add hypo till colowies
as cruporminions visiting	
6) Lesult:	
Amount of Residual chile	Påne ön a gluen
Sample - 034	5.66 pm 1
Water Opumple - Di	si de ppirisans
T) mecautions:	
	and to transfer
(i) The soln boung unstable st immediately after priepa	nation
each aliquel is withdraw	n from titration
(in Chlorine reapows wing t	ample the soln should
	acher's Signature

Date		

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,	not be sucked into pipette with the mouth.
	Teacher's Signature