Job Card No = RDKL/2324/WW/J00015

Sample Requisition No = RDKL/2324/WW/2324/SR0006

Parameter = NH_3-N

No. of Sample = 06

Date of collection = 06/10/2023

Date of analyses = 11/10/2023

Name of supervison = Md. A. Rafique

S.No	Sample code	Vol of Sample	I.R. (mL)	F.R (mL)	Difference A-B (mL)	A-B (mL)	NH_3-N (mg/L)
01	L-00007						
01	L00007	100 ml	0.0	3.0	3.0	3.0	8.4 ≈ 8
02	L00009	"	3.0	5.5	2.5	2.5	7.0 ≈ 7
03	L00011	"	5.5	6.9	1.4	1.4	3.9 ≈ 4
04	L00012	"	7.0	8.9	1.9	1.9	5.3 ≈ 5
05	L00014	"	9.0	9.6	0.6	0.6	1.6 ≈ 2
06	L00015	"	10.0	10.7	0.7	0.7	1.9 ≈ 2
07	Blank	200 mL	0	0	0	0	-
08	std (20 mg/L)	100 mL	0	7.0	7.0	7.0	19.6

Repeat analysis

S.NO	Sample code	Vol of Sample	I.R. (mL)	F.R (mL)	Difference (A-B) (mL)	A-B (mL)	NH_3-N (mg/L)
01	L00009	100 mL	0	2.6	2.6	2.6	7.2 ≈ 7

Calculation

$$NH_3\text{-}N\ (mg/L) = \frac{(A-B) \times 14 \times 1000 \times N}{\text{Vol of Sample in mL}}$$

A = Volume of H_2SO_4 titrated for sample

B = " " " " " Blank

24.8 mL of H_2SO_4 consumed by 10 mL of 0.05 N Na_2CO_3

$$\text{strength} = \frac{0.05 \times 10}{24.8} = 0.020\ N$$

18.10.23