

Requisition NO = ADKL/WN/2324/SR00117, 118, 119, 120 & ~~121~~

80

Parameter =  $\text{NH}_3\text{-N}$

No. of Sample = 11

Date of collection = 12/02/2024, 15/02/2024, 16/02/2024

Date of analysis = 20/02/2024

Name of Supervisor = Md. A. Rafique

S.No	Sample Code	Vol. of Sample (ml)	I.R (ml)	F.R (ml)	Difference (ml)	A-B (ml)	$\text{NH}_3\text{-N}$ (mg/L)
01	L00391	100 ml	0	5.5	5.5	5.5	16.2 $\approx$ 16
02	L00392	"	5.5	13.6	8.1	8.1	23.8 $\approx$ 24
03	L00393	"	14.0	20.7	6.7	6.7	19.8 $\approx$ 20
04	L00397	"	21.0	24.8	3.8	3.8	11.2 $\approx$ 11
05	L00398	"	25.0	28.5	3.5	3.5	10.3 $\approx$ 10
06	L00399	"	28.5	30.5	2.0	2.0	5.9 $\approx$ 6
07	L00402	"	30.5	32.6	2.1	2.1	6.2 $\approx$ 6
08	L00403	"	32.6	38.1	5.5	5.5	16.2 $\approx$ 16
09	L00404	"	38.1	43.4	5.3	5.3	15.6 $\approx$ 16
10	L00405	"	43.5	46.7	3.2	3.2	9.4 $\approx$ 9
11	L00406	"	0	2.0	2.0	2.0	5.9 $\approx$ 6
12	Blank	200 ml	0	0	0	0	-
13	std (20 mg/L)	300 ml	0	6.7	6.7	6.7	19.8

Calculation

$$\text{NH}_3\text{-N (mg/L)} = \frac{(A-B) \times 14 \times 1000 \times N}{\text{Volume of Sample}}$$

A = Volume of  $\text{H}_2\text{SO}_4$  titrated for sample

B = " " " " " " Blank

23.5 ml of  $\text{H}_2\text{SO}_4$  consumed by 10 ml of 0.05 N  $\text{Na}_2\text{CO}_3$

$$\text{Strength} = \frac{0.05 \times 10}{23.5} = 0.0212 \text{ N}$$

Initial

③ Final 20/02/24

26.02.24