

## Water Quality Tests Results (Source Water of Sue Water Purification Plant)

No.	Items	Source Water of Sue Water Purification Plant						Unit
		24-Apr-2024	23-May-2024	19-Jun-2024	23-Jul-2024	27-Aug-2024	11-Sep-2024	
	Water temperature	11.6	13.5	17.1	18.0	22.0	20.5	( °C )
1	Common Bacteria	9	4	21	230	220	75	(number/mL)
2	E.coli	26	4.1	5.2	180	47	20	(MPN/100mL)
3	Cadmium		< 0.0003			< 0.0003		(mg/L)
4	Mercury		< 0.00005			< 0.00005		(mg/L)
5	Selenium	< 0.001			< 0.001			(mg/L)
6	Lead			< 0.001			0.001	(mg/L)
7	Arsenic	< 0.001			0.001			(mg/L)
8	Chromium (VI)	< 0.002			< 0.002			(mg/L)
9	Nitrite nitrogen	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	(mg/L)
10	Cyanide ion and Cyanogens chloride			< 0.001			< 0.001	(mg/L)
11	Nitrate and Nitrite	0.2	0.2	0.2	0.2	0.3	0.3	(mg/L)
12	Fluoride	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	(mg/L)
13	Boron			< 0.1			< 0.1	(mg/L)
14	Carbon tetrachloride			< 0.0002			< 0.0002	(mg/L)
15	1, 4-dioxane	< 0.005			< 0.005			(mg/L)
16	cis-1,2-Dichloroethylene and trans-1,2- Dichloroethylene			< 0.004			< 0.004	(mg/L)
17	Dichloromethane			< 0.002			< 0.002	(mg/L)
18	Tetrachloroethylene			< 0.001			< 0.001	(mg/L)
19	Trichloroethylene			< 0.001			< 0.001	(mg/L)
20	Benzene			< 0.001			< 0.001	(mg/L)
21	Chlorate	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	(mg/L)
22	Chloroacetic acid							(mg/L)
23	Chloroform			< 0.001			< 0.001	(mg/L)
24	Dichloroacetic acid							(mg/L)
25	Dibromochloromethane			< 0.001			< 0.001	(mg/L)
26	Bromate			< 0.001			< 0.001	(mg/L)
27	Total trihalomethanes			< 0.001			< 0.001	(mg/L)
28	Trichloroacetic acid							(mg/L)
29	Bromodichloromethane			< 0.001			< 0.001	(mg/L)
30	Bromoform			< 0.001			< 0.001	(mg/L)
31	Formaldehyde							(mg/L)
32	Zinc			< 0.01			< 0.01	(mg/L)
33	Aluminium	0.07	0.03	0.04	1.8	0.06	0.09	(mg/L)
34	Iron	0.03	< 0.03	0.04	0.54	0.15	0.19	(mg/L)
35	Copper	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	(mg/L)
36	Sodium	3.3	3.9	4.7	3.5	5.3	5.3	(mg/L)
37	Manganese	0.004	0.007	0.018	0.019	0.034	0.047	(mg/L)
38	Chloride ion	3.0	2.7	3.1	2.2	3.3	3.0	(mg/L)
39	Calcium, Magnesium (Hardness)	20	24	30	21	34	34	(mg/L)
40	Total residue	44			34			(mg/L)
41	Anionic surface active agent	< 0.02			< 0.02			(mg/L)
42	Geosmin			< 0.000001	0.000001	< 0.000001	< 0.000001	(mg/L)
43	2-Methylisobolneol			< 0.000001	< 0.000001	< 0.000001	< 0.000001	(mg/L)
44	Nonionic surface active agent	< 0.005			< 0.005			(mg/L)
45	Phenols		< 0.0005			< 0.0005		(mg/L)
46	Organic substances (Total Organic Carbon)	0.4	0.5	0.5	1.4	0.8	0.7	(mg/L)
47	pH Value	7.5	7.6	7.4	7.3	7.4	7.3	
48	Taste							
49	Odor	None	None	None	None	None	None	
50	Color	2	2	3	17	5	6	( degree )
51	Turbidity	2.0	1.2	1.6	37	1.6	2.4	( degree )
	Free residual chlorine							(mg/L)

※1 N.D. = Not detected

## Water Quality Tests Results (Source Water of Sue Water Purification Plant)

No.	Items	Source Water of Sue Water Purification Plant					Unit
		9-Oct-2024	25-Nov-2024	18-Dec-2024	9-Jan-2025		
	Water temperature	17.8	9.9	7.5	3.8		( °C )
1	Common Bacteria	150	12	15	6		(number/mL)
2	E.coli	37	13	20	40		(MPN/100mL)
3	Cadmium		< 0.0003				(mg/L)
4	Mercury		< 0.00005				(mg/L)
5	Selenium	< 0.001			< 0.001		(mg/L)
6	Lead			< 0.001			(mg/L)
7	Arsenic	0.002			< 0.001		(mg/L)
8	Chromium (VI)	< 0.002			< 0.002		(mg/L)
9	Nitrite nitrogen	< 0.004	< 0.004	< 0.004	< 0.004		(mg/L)
10	Cyanide ion and Cyanogens chloride			< 0.001			(mg/L)
11	Nitrate and Nitrite	0.4	0.4	0.6	0.5		(mg/L)
12	Fluoride	< 0.08	0.11	< 0.08	< 0.08		(mg/L)
13	Boron			< 0.1			(mg/L)
14	Carbon tetrachloride			< 0.0002			(mg/L)
15	1, 4-dioxane	< 0.005			< 0.005		(mg/L)
16	cis-1,2-Dichloroethylene and trans-1,2-Dichloroethylene			< 0.004			(mg/L)
17	Dichloromethane			< 0.002			(mg/L)
18	Tetrachloroethylene			< 0.001			(mg/L)
19	Trichloroethylene			< 0.001			(mg/L)
20	Benzene			< 0.001			(mg/L)
21	Chlorate	< 0.06	< 0.06	< 0.06	< 0.06		(mg/L)
22	Chloroacetic acid						(mg/L)
23	Chloroform			< 0.001			(mg/L)
24	Dichloroacetic acid						(mg/L)
25	Dibromochloromethane			< 0.001			(mg/L)
26	Bromate			< 0.001			(mg/L)
27	Total trihalomethanes			< 0.001			(mg/L)
28	Trichloroacetic acid						(mg/L)
29	Bromodichloromethane			< 0.001			(mg/L)
30	Bromoform			< 0.001			(mg/L)
31	Formaldehyde						(mg/L)
32	Zinc			< 0.01			(mg/L)
33	Aluminium	0.10	0.06	0.03	0.03		(mg/L)
34	Iron	0.12	0.08	0.04	0.06		(mg/L)
35	Copper	< 0.01	< 0.01	< 0.01	< 0.01		(mg/L)
36	Sodium	5.0	4.5	5.0	5.3		(mg/L)
37	Manganese	0.031	0.035	0.008	0.015		(mg/L)
38	Chloride ion	2.8	3.7	5.3	5.0		(mg/L)
39	Calcium, Magnesium (Hardness)	31	29	25	27		(mg/L)
40	Total residue	56			62		(mg/L)
41	Anionic surface active agent	< 0.02			< 0.02		(mg/L)
42	Geosmin	< 0.000001	< 0.000001				(mg/L)
43	2-Methylisobolneol	< 0.000001	< 0.000001				(mg/L)
44	Nonionic surface active agent	< 0.005			< 0.005		(mg/L)
45	Phenols		< 0.0005				(mg/L)
46	Organic substances (Total Organic Carbon)	1.0	0.6	0.4	0.4		(mg/L)
47	pH Value	7.4	7.6	7.4	7.2		
48	Taste						
49	Odor	None	None	None	None		
50	Color	6	4	2	2		( degree )
51	Turbidity	3.9	1.1	1.7	1.3		( degree )
	Free residual chlorine						(mg/L)

※1 N.D. = Not detected