

Water Quality Tests Results

(Purified Water of Sue Water Purification Plant (Slow sand filtration method))

No.	Items	Purified Water of Sue Water Purification Plant (Slow sand filtration method)						Unit
		23-Apr-2025	29-May-2025	18-Jun-2025	9-Jul-2025	20-Aug-2025	2-Sep-2025	
	Water temperature	12.1	14.2	17.7	21.5	23.6	23.8	(°C)
1	Common Bacteria	2	2	4	1	5	1	(number/mL)
2	E.coli	N.D. ※1	N.D. ※1	N.D. ※1	N.D. ※1	N.D. ※1	N.D. ※1	(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	0.3	0.2	0.2	0.3	0.4	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	<i>cis</i> -1,2-Dichloroethylene and <i>trans</i> -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	0.08	0.08	(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			0.002			0.002	(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	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	(mg/L)
34	Iron	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	(mg/L)
35	Copper	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	(mg/L)
36	Sodium	3.7	3.1	3.3	4.1	4.4	4.9	(mg/L)
37	Manganese	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	(mg/L)
38	Chloride ion	4.2	2.5	2.2	2.5	2.8	3.0	(mg/L)
39	Calcium, Magnesium (Hardness)	16	17	18	24	22	28	(mg/L)
40	Total residue	31			26			(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-Methylisoborneol			< 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)	< 0.3	< 0.3	0.5	0.3	0.6	0.5	(mg/L)
47	pH Value	7.4	7.5	7.3	7.3	7.1	7.2	
48	Taste	None	None	None	None	None	None	
49	Odor	None	None	None	None	None	None	
50	Color	< 0.5	< 0.5	< 0.5	< 0.5	1	< 0.5	(degree)
51	Turbidity	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	(degree)
	Free residual chlorine ※2	0.58	0.58	0.58	0.74	0.82	0.76	(mg/L)

※1 N.D. = Not detected

※2 Necessary sanitation measures: Free residual chlorine \geq 0.1 mg/L

Water Quality Tests Results
(Purified Water of Sue Water Purification Plant (Slow sand filtration method))

No.	Items	Purified Water of Sue Water Purification Plant (Slow sand filtration method)				Unit
		8-Oct-2025	19-Nov-2025	24-Dec-2025	14-Jan-2026	
	Water temperature	18.8	10.1	7.2	4.5	(°C)
1	Common Bacteria	< 1	1	1	1	(number/mL)
2	E.coli	N.D. ※1	N.D. ※1	N.D. ※1	N.D. ※1	(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	0.001			< 0.001	(mg/L)
8	Chromium (VI)	< 0.002			< 0.002	(mg/L)
9	Nitrite nitrogen	< 0.004	< 0.004	< 0.004	< 0.004	(mg/L)
10	Cyanide ion and Cyanogens chloride			< 0.001		(mg/L)
11	Nitrate and Nitrite	0.3	0.3	0.4	0.4	(mg/L)
12	Fluoride	< 0.08	< 0.08	< 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	<i>cis</i> -1,2-Dichloroethylene and <i>trans</i> -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	0.10	< 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	< 0.01	< 0.01	< 0.01	< 0.01	(mg/L)
34	Iron	< 0.03	< 0.03	< 0.03	< 0.03	(mg/L)
35	Copper	< 0.01	< 0.01	< 0.01	< 0.01	(mg/L)
36	Sodium	5.0	4.5	4.5	5.0	(mg/L)
37	Manganese	< 0.001	< 0.001	< 0.001	< 0.001	(mg/L)
38	Chloride ion	3.1	3.6	5.0	5.9	(mg/L)
39	Calcium, Magnesium (Hardness)	27	25	23	26	(mg/L)
40	Total residue	52			43	(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)	0.6	0.4	0.3	< 0.3	(mg/L)
47	pH Value	7.5	7.6	7.5	7.5	
48	Taste	None	None	None	None	
49	Odor	None	None	None	None	
50	Color	< 0.5	< 0.5	< 0.5	< 0.5	(degree)
51	Turbidity	< 0.1	< 0.1	< 0.1	< 0.1	(degree)
	Free residual chlorine ※2	0.76	0.58	0.54	0.46	(mg/L)

※1 N.D. = Not detected

※2 Necessary sanitation measures: Free residual chlorine \geq 0.1 mg/L