

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

No.	Items	Source Water of Saigawa Water Purification Plant						Unit
		23-Apr-2025	29-May-2025	18-Jun-2025	9-Jul-2025	20-Aug-2025	2-Sep-2025	
	Water temperature	10.0	12.7	14.5	16.2	18.4	19.6	( °C )
1	Common Bacteria	9	14	65	340	160	150	(number/mL)
2	E.coli	17	8.6	23	770	37	73	(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	0.3	0.3	0.4	0.4	(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	0.10	0.07	0.08	0.22	0.19	0.08	(mg/L)
34	Iron	0.05	0.04	0.04	0.13	0.12	0.06	(mg/L)
35	Copper	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	(mg/L)
36	Sodium	4.8	5.0	5.2	5.5	5.5	6.2	(mg/L)
37	Manganese	0.004	0.006	0.007	0.010	0.013	0.004	(mg/L)
38	Chloride ion	5.1	4.5	4.6	4.5	4.2	4.7	(mg/L)
39	Calcium, Magnesium (Hardness)	15	17	19	20	20	22	(mg/L)
40	Total residue	38			32			(mg/L)
41	Anionic surface active agent	< 0.02			< 0.02			(mg/L)
42	Geosmin			< 0.000001	< 0.000001	0.000002	< 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	0.6	1.0	0.9	0.8	(mg/L)
47	pH Value	7.3	7.4	7.3	7.4	7.3	7.4	
48	Taste							
49	Odor	None	None	None	None	None	None	
50	Color	2	2	3	6	5	3	( degree )
51	Turbidity	3.9	2.8	2.9	6.2	4.5	1.9	( degree )
	Free residual chlorine							(mg/L)

※1 N.D. = Not detected

**Water Quality Tests Results**  
(Source Water of Saigawa Water Purification Plant)

No.	Items	Source Water of Saigawa Water Purification Plant					Unit
		8-Oct-2025	19-Nov-2025	24-Dec-2025	14-Jan-2026		
	Water temperature	17.7	10.9	8.6	6.1		( °C )
1	Common Bacteria	190	55	40	26		(number/mL)
2	E.coli	110	40	15	24		(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	0.4	0.3	0.4	0.5		(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	< 0.06	< 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	0.19	0.12	0.17	0.11		(mg/L)
34	Iron	0.14	0.12	0.10	0.07		(mg/L)
35	Copper	< 0.01	< 0.01	< 0.01	< 0.01		(mg/L)
36	Sodium	6.8	5.8	7.1	7.1		(mg/L)
37	Manganese	0.018	0.018	0.008	0.008		(mg/L)
38	Chloride ion	4.8	4.8	6.6	8.2		(mg/L)
39	Calcium, Magnesium (Hardness)	22	22	24	21		(mg/L)
40	Total residue	62			54		(mg/L)
41	Anionic surface active agent	< 0.02			< 0.02		(mg/L)
42	Geosmin	< 0.000001	< 0.000001				(mg/L)
43	2-Methylisoborneol	< 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	0.6	0.5		(mg/L)
47	pH Value	7.4	7.5	7.5	7.4		
48	Taste						
49	Odor	None	None	None	None		
50	Color	4	3	3	3		( degree )
51	Turbidity	5.3	3.8	4.8	3.7		( degree )
	Free residual chlorine						(mg/L)

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