

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

No.	Items	Source Water of Saigawa Water Purification Plant						Unit
		28-Apr-2022	26-May-2022	15-Jun-2022	20-Jul-2022	24-Aug-2022	7-Sep-2022	
	Water temperature	9.5	11.8	13.1	16.7	16.8	16.8	( °C )
1	Common Bacteria	14	7	31	230	530	1,600	(number/mL)
2	E.coli	21	12	65	130	150	240	(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			0.002	(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	0.4	0.4	0.4	0.4	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	<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	< 0.06	< 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			0/1/1900				(mg/L)
32	Zinc			< 0.01			< 0.01	(mg/L)
33	Aluminium	0.07	0.04	0.06	0.16	2.3	0.64	(mg/L)
34	Iron	0.04	0.03	0.05	0.11	1.3	0.14	(mg/L)
35	Copper	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.02	(mg/L)
36	Sodium	5.6	6.0	5.7	6.2	5.3	6.7	(mg/L)
37	Manganese	0.003	0.003	0.007	0.006	0.052	0.003	(mg/L)
38	Chloride ion	4.8	5.3	4.7	4.6	3.9	4.7	(mg/L)
39	Calcium, Magnesium (Hardness)	17	20	20	23	16	20	(mg/L)
40	Total residue	51			52			(mg/L)
41	Anionic surface active agent	< 0.02			< 0.02			(mg/L)
42	Geosmin			0.000001	0.000002	< 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)	0.5	0.6	0.8	1.0	1.2	1.0	(mg/L)
47	pH Value	7.4	7.4	7.4	7.3	7.3	7.3	
48	Taste							
49	Odor	None	None	None	None	None	None	
50	Color	2	3	4	6	9	7	( degree )
51	Turbidity	3.3	1.6	1.8	4.0	83	18	( 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
		25-Oct-2022	15-Nov-2022	8-Dec-2022			
	Water temperature	15.1	13.4	11.1			( °C )
1	Common Bacteria	18	63	41			(number/mL)
2	E.coli	51	50	51			(MPN/100mL)
3	Cadmium		< 0.0003				(mg/L)
4	Mercury		< 0.00005				(mg/L)
5	Selenium	< 0.001					(mg/L)
6	Lead			< 0.001			(mg/L)
7	Arsenic	< 0.001					(mg/L)
8	Chromium (VI)	< 0.002					(mg/L)
9	Nitrite nitrogen	< 0.004	< 0.004	< 0.004			(mg/L)
10	Cyanide ion and Cyanogens chloride			< 0.001			(mg/L)
11	Nitrate and Nitrite	0.4	0.5	0.5			(mg/L)
12	Fluoride	< 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					(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			(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	0.24	0.30	0.24			(mg/L)
34	Iron	0.16	0.20	0.14			(mg/L)
35	Copper	< 0.01	< 0.01	< 0.01			(mg/L)
36	Sodium	6.2	7.2	6.6			(mg/L)
37	Manganese	0.035	0.039	0.020			(mg/L)
38	Chloride ion	4.5	4.9	5.1			(mg/L)
39	Calcium, Magnesium (Hardness)	24	21	20			(mg/L)
40	Total residue	39					(mg/L)
41	Anionic surface active agent	< 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					(mg/L)
45	Phenols		< 0.0005				(mg/L)
46	Organic substances (Total Organic Carbon)	0.7	0.8	0.9			(mg/L)
47	pH Value	7.4	7.4	7.5			
48	Taste						
49	Odor	None	None	None			
50	Color	3	2	5			( degree )
51	Turbidity	7.6	10	6.6			( degree )
	Free residual chlorine						(mg/L)

※1 N.D. = Not detected