

Water Quality Tests Results

(Source Water of Sue Water Purification Plant)

No.	Items	Source Water of Sue Water Purification Plant						Unit
		19/4/2019	28/5/2019	11/6/2019	8/7/2019	21/8/2019	4/9/2019	
	Water temperature	8.2	13.1	14.9	15.7	20.0	18.0	(°C)
1	Common Bacteria	1	4	56	38	320	860	(number/mL)
2	E.coli	3.1	12	24	14	36	2,000	(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)	< 0.005			< 0.005			(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	0.3	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				(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	0.03	0.04	0.05	0.09	0.05	0.58	(mg/L)
34	Iron	< 0.03	0.03	0.04	0.07	0.17	0.39	(mg/L)
35	Copper	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	(mg/L)
36	Sodium	3.9	3.5	3.8	3.8	4.4	3.5	(mg/L)
37	Manganese	0.003	0.007	0.012	0.019	0.053	0.017	(mg/L)
38	Chloride ion	4.0	2.7	2.6	2.8	3.1	2.4	(mg/L)
39	Calcium, Magnesium (Hardness)	23	24	25	23	29	20	(mg/L)
40	Total residue	39			56			(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)	0.5	0.6	1.0	0.8	1.0	1.9	(mg/L)
47	pH Value	7.6	7.4	7.4	7.4	7.2	7.4	
48	Taste							
49	Odor	None	None	None	None	None	None	
50	Color	2	3	5	6	7	14	(degree)
51	Turbidity	1.1	1.3	1.5	3.4	3.4	18	(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
		24/10/2019	21/11/2019	4/12/2019	9/1/2020			
	Water temperature	13.9	9.5	8.7	6.9			(°C)
1	Common Bacteria	25	3	11	6			(number/mL)
2	E.coli	63	11	12	8.6			(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)	< 0.005			< 0.005			(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	0.5	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	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	0.22	0.04	0.09	0.07			(mg/L)
34	Iron	0.12	0.06	0.06	0.04			(mg/L)
35	Copper	< 0.01	< 0.01	< 0.01	< 0.01			(mg/L)
36	Sodium	3.7	4.0	4.1	4.2			(mg/L)
37	Manganese	0.013	0.036	0.017	0.006			(mg/L)
38	Chloride ion	2.9	3.7	4.2	5.2			(mg/L)
39	Calcium, Magnesium (Hardness)	24	26	24	22			(mg/L)
40	Total residue	39			52			(mg/L)
41	Anionic surface active agent	< 0.02			< 0.02			(mg/L)
42	Geosmin	< 0.000001	< 0.000001					(mg/L)
43	2-Methylisobornol	< 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)	0.8	0.7	0.7	0.5			(mg/L)
47	pH Value	7.5	7.5	7.5	7.5			
48	Taste							
49	Odor	None	None	None	None			
50	Color	5	4	4	3			(degree)
51	Turbidity	5.3	2.0	2.1	2.0			(degree)
	Free residual chlorine							(mg/L)

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