

**Water Quality Tests Results**  
(Purified Water of Shijima-naka Water Distribution Plant)

No.	Items	Purified Water of Shijima-naka Water Distribution Plant						Unit
		22-Apr-2021	19-May-2021	16-Jun-2021	8-Jul-2021	18-Aug-2021	15-Sep-2021	
	Water temperature	11.6	13.2	18.3	19.4	18.9	18.8	( °C )
1	Common Bacteria	< 1	< 1	< 1	2	< 1	< 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	0.2	0.2	0.2	(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	0/1/1900	0.06	(mg/L)
22	Chloroacetic acid							(mg/L)
23	Chloroform			0.009			0.015	(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			0.014			0.020	(mg/L)
28	Trichloroacetic acid							(mg/L)
29	Bromodichloromethane			0.004			0.005	(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	0.02	0.05	0.04	0.04	0.05	(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	4.3	4.3	4.3	4.5	4.3	4.8	(mg/L)
37	Manganese	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	(mg/L)
38	Chloride ion	5.3	6.7	5.0	6.3	4.7	5.4	(mg/L)
39	Calcium, Magnesium (Hardness)	25	23	28	26	26	30	(mg/L)
40	Total residue	49			69			(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)	0.4	0.3	0.4	0.4	0.6	0.5	(mg/L)
47	pH Value	7.5	7.3	7.5	7.5	7.4	7.5	
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	< 0.5	< 0.5	( degree )
51	Turbidity	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1	( degree )
	Free residual chlorine ※2	0.40	0.46	0.48	0.46	0.48	0.52	(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 Shijima-naka Water Distribution Plant)

No.	Items	Purified Water of Shijima-naka Water Distribution Plant					Unit
		5-Oct-2021					
	Water temperature	18.0					( °C )
1	Common Bacteria	< 1					(number/mL)
2	E.coli	N.D. ※1					(MPN/100mL)
3	Cadmium						(mg/L)
4	Mercury						(mg/L)
5	Selenium	< 0.001					(mg/L)
6	Lead						(mg/L)
7	Arsenic	< 0.001					(mg/L)
8	Chromium (VI)	< 0.002					(mg/L)
9	Nitrite nitrogen	< 0.004					(mg/L)
10	Cyanide ion and Cyanogens chloride						(mg/L)
11	Nitrate and Nitrite	0.2					(mg/L)
12	Fluoride	0.08					(mg/L)
13	Boron						(mg/L)
14	Carbon tetrachloride						(mg/L)
15	1, 4-dioxane	< 0.005					(mg/L)
16	cis-1,2-Dichloroethylene and trans-1,2-Dichloroethylene						(mg/L)
17	Dichloromethane						(mg/L)
18	Tetrachloroethylene						(mg/L)
19	Trichloroethylene						(mg/L)
20	Benzene						(mg/L)
21	Chlorate	< 0.06					(mg/L)
22	Chloroacetic acid						(mg/L)
23	Chloroform						(mg/L)
24	Dichloroacetic acid						(mg/L)
25	Dibromochloromethane						(mg/L)
26	Bromate						(mg/L)
27	Total trihalomethanes						(mg/L)
28	Trichloroacetic acid						(mg/L)
29	Bromodichloromethane						(mg/L)
30	Bromoform						(mg/L)
31	Formaldehyde						(mg/L)
32	Zinc						(mg/L)
33	Aluminium	0.07					(mg/L)
34	Iron	< 0.03					(mg/L)
35	Copper	< 0.01					(mg/L)
36	Sodium	6.0					(mg/L)
37	Manganese	< 0.001					(mg/L)
38	Chloride ion	7.0					(mg/L)
39	Calcium, Magnesium (Hardness)	31					(mg/L)
40	Total residue	76					(mg/L)
41	Anionic surface active agent	< 0.02					(mg/L)
42	Geosmin	< 0.000001					(mg/L)
43	2-Methylisoborneol	< 0.000001					(mg/L)
44	Nonionic surface active agent	< 0.005					(mg/L)
45	Phenols						(mg/L)
46	Organic substances (Total Organic Carbon)	0.4					(mg/L)
47	pH Value	7.7					
48	Taste	None					
49	Odor	None					
50	Color	< 0.5					( degree )
51	Turbidity	< 0.1					( degree )
	Free residual chlorine ※2	0.50					(mg/L)

※1 N.D. = Not detected

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