

Water Quality Tests Results (Kasamai)

No.	Items	Kasamai						Unit
		24/4/2019	22/5/2019	25/6/2019	3/7/2019	8/8/2019	12/9/2019	
	Water temperature	13.4	17.6	18.5	20.1	25.4	20.9	(°C)
1	Common Bacteria	0	0	0	0	0	0	(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							(mg/L)
4	Mercury							(mg/L)
5	Selenium							(mg/L)
6	Lead			< 0.001			< 0.001	(mg/L)
7	Arsenic							(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	0.2	0.3	0.3	0.3	0.4	(mg/L)
12	Fluoride	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	(mg/L)
13	Boron							(mg/L)
14	Carbon tetrachloride			< 0.0002			< 0.0002	(mg/L)
15	1, 4-dioxane							(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	0.08	0.07	(mg/L)
22	Chloroacetic acid			< 0.002			< 0.002	(mg/L)
23	Chloroform			0.007			0.009	(mg/L)
24	Dichloroacetic acid			< 0.003			0.005	(mg/L)
25	Dibromochloromethane			< 0.001			< 0.001	(mg/L)
26	Bromate			< 0.001			< 0.001	(mg/L)
27	Total trihalomethanes			0.010			0.013	(mg/L)
28	Trichloroacetic acid			0.003			0.006	(mg/L)
29	Bromodichloromethane			0.003			0.004	(mg/L)
30	Bromoform			< 0.001			< 0.001	(mg/L)
31	Formaldehyde			< 0.008			< 0.008	(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	3.9	3.5	3.9	4.3	4.9	4.7	(mg/L)
37	Manganese	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	(mg/L)
38	Chloride ion	4.2	3.2	3.7	3.9	4.0	3.7	(mg/L)
39	Calcium, Magnesium (Hardness)	21	21	21	20	25	25	(mg/L)
40	Total residue	27			55			(mg/L)
41	Anionic surface active agent							(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							(mg/L)
45	Phenols							(mg/L)
46	Organic substances (Total Organic Carbon)	0.3	0.3	0.5	0.4	0.5	0.5	(mg/L)
47	pH Value	7.5	7.4	7.4	7.4	7.4	7.4	
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	0.32	0.40	0.40	0.43	0.46	(mg/L)

※1 N.D. = Not detected

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

Water Quality Tests Results (Kasamai)

No.	Items	Kasamai						Unit
		31/10/2019	27/11/2019	11/12/2019	15/1/2020			
	Water temperature	15.5	12.8	10.0	9.0			(°C)
1	Common Bacteria	0	0	0	0			(number/mL)
2	E.coli	N.D. ※1	N.D. ※1	N.D. ※1	N.D. ※1			(MPN/100mL)
3	Cadmium							(mg/L)
4	Mercury							(mg/L)
5	Selenium							(mg/L)
6	Lead			< 0.001				(mg/L)
7	Arsenic							(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	0.4	0.4			(mg/L)
12	Fluoride	< 0.08	< 0.08	< 0.08	< 0.08			(mg/L)
13	Boron							(mg/L)
14	Carbon tetrachloride			< 0.0002				(mg/L)
15	1, 4-dioxane							(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			< 0.002				(mg/L)
23	Chloroform			0.002				(mg/L)
24	Dichloroacetic acid			< 0.003				(mg/L)
25	Dibromochloromethane			0.001				(mg/L)
26	Bromate			< 0.001				(mg/L)
27	Total trihalomethanes			0.006				(mg/L)
28	Trichloroacetic acid			< 0.003				(mg/L)
29	Bromodichloromethane			0.002				(mg/L)
30	Bromoform			< 0.001				(mg/L)
31	Formaldehyde			< 0.008				(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	4.7	4.5	5.3			(mg/L)
37	Manganese	< 0.001	< 0.001	< 0.001	< 0.001			(mg/L)
38	Chloride ion	4.6	4.7	4.8	6.0			(mg/L)
39	Calcium, Magnesium (Hardness)	25	26	24	21			(mg/L)
40	Total residue	47			41			(mg/L)
41	Anionic surface active agent							(mg/L)
42	Geosmin	< 0.000001	< 0.000001					(mg/L)
43	2-Methylisoborneol	< 0.000001	< 0.000001					(mg/L)
44	Nonionic surface active agent							(mg/L)
45	Phenols							(mg/L)
46	Organic substances (Total Organic Carbon)	0.4	0.4	0.4	< 0.3			(mg/L)
47	pH Value	7.4	7.5	7.4	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	0.42	0.42	0.42	0.40			(mg/L)

※1 N.D. = Not detected

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