

Water Quality Tests Results (Purified Water of Saigawa Water Purification Plant)

| No. | Items | Purified Water of Saigawa Water Purification Plant | | | | | | Unit |
|-----|-------------------------------------------------------------------------|----------------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | 24-Apr-2024 | 23-May-2024 | 19-Jun-2024 | 23-Jul-2024 | 27-Aug-2024 | 11-Sep-2024 | |
| | Water temperature | 11.7 | 13.3 | 15.1 | 18.8 | 20.1 | 20.2 | (°C) |
| 1 | Common Bacteria | < 1 | < 1 | < 1 | < 1 | < 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 | 0.3 | 0.3 | 0.3 | 0.3 | (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 | 0.08 | (mg/L) |
| 22 | Chloroacetic acid | | | | | | | (mg/L) |
| 23 | Chloroform | | | 0.002 | | | 0.002 | (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 | | | 0.005 | | | 0.005 | (mg/L) |
| 28 | Trichloroacetic acid | | | | | | | (mg/L) |
| 29 | Bromodichloromethane | | | 0.002 | | | 0.002 | (mg/L) |
| 30 | Bromoform | | | < 0.001 | | | < 0.001 | (mg/L) |
| 31 | Formaldehyde | | | | | | | (mg/L) |
| 32 | Zinc | | | < 0.01 | | | < 0.01 | (mg/L) |
| 33 | Aluminium | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | (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 | 6.0 | 6.2 | 7.4 | 8.2 | 8.5 | 8.5 | (mg/L) |
| 37 | Manganese | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 | (mg/L) |
| 38 | Chloride ion | 6.3 | 6.0 | 6.3 | 7.4 | 6.6 | 6.7 | (mg/L) |
| 39 | Calcium, Magnesium (Hardness) | 18 | 21 | 23 | 20 | 23 | 25 | (mg/L) |
| 40 | Total residue | 45 | | | 21 | | | (mg/L) |
| 41 | Anionic surface active agent | < 0.02 | | | < 0.02 | | | (mg/L) |
| 42 | Geosmin | | | < 0.000001 | < 0.000001 | < 0.000001 | 0.000003 | (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) | < 0.3 | < 0.3 | < 0.3 | 0.3 | 0.4 | < 0.3 | (mg/L) |
| 47 | pH Value | 7.3 | 7.4 | 7.3 | 7.4 | 7.5 | 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 | 0.50 | 0.52 | 0.58 | 0.54 | 0.66 | 0.72 | (mg/L) |

※1 N.D. = Not detected

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

Water Quality Tests Results (Purified Water of Saigawa Water Purification Plant)

| No. | Items | Purified Water of Saigawa Water Purification Plant | | | | | Unit |
|-----|-------------------------------------------------------------------------|----------------------------------------------------|--|--|--|--|-------------|
| | | 31-Oct-2024 | | | | | |
| | Water temperature | 16.0 | | | | | (°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 | 0.5 | | | | | (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 | <i>cis</i> -1,2-Dichloroethylene and <i>trans</i> -1,2-Dichloroethylene | | | | | | (mg/L) |
| 17 | Dichloromethane | | | | | | (mg/L) |
| 18 | Tetrachloroethylene | | | | | | (mg/L) |
| 19 | Trichloroethylene | | | | | | (mg/L) |
| 20 | Benzene | | | | | | (mg/L) |
| 21 | Chlorate | 0.11 | | | | | (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 | 0.02 | | | | | (mg/L) |
| 34 | Iron | < 0.03 | | | | | (mg/L) |
| 35 | Copper | < 0.01 | | | | | (mg/L) |
| 36 | Sodium | 8.7 | | | | | (mg/L) |
| 37 | Manganese | < 0.001 | | | | | (mg/L) |
| 38 | Chloride ion | 8.1 | | | | | (mg/L) |
| 39 | Calcium, Magnesium (Hardness) | 24 | | | | | (mg/L) |
| 40 | Total residue | 54 | | | | | (mg/L) |
| 41 | Anionic surface active agent | < 0.02 | | | | | (mg/L) |
| 42 | Geosmin | 0.000003 | | | | | (mg/L) |
| 43 | 2-Methylisobolneol | < 0.000001 | | | | | (mg/L) |
| 44 | Nonionic surface active agent | < 0.005 | | | | | (mg/L) |
| 45 | Phenols | | | | | | (mg/L) |
| 46 | Organic substances (Total Organic Carbon) | 0.3 | | | | | (mg/L) |
| 47 | pH Value | 7.4 | | | | | |
| 48 | Taste | None | | | | | |
| 49 | Odor | None | | | | | |
| 50 | Color | < 0.5 | | | | | (degree) |
| 51 | Turbidity | < 0.1 | | | | | (degree) |
| | Free residual chlorine ※2 | 0.62 | | | | | (mg/L) |

※1 N.D. = Not detected

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