

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

| No. | Items  | Purified Water of Shijima-naka Water Distribution Plant |             |             |             |  | Unit        |
|-----|--|---|-------------|-------------|-------------|--|-------------|
|     |  | 24-Apr-2024   | 23-May-2024 | 19-Jun-2024 | 23-Jul-2024 |  |             |
|     | Water temperature  | 12.0  | 14.5        | 19.8        | 22.6        |  | ( °C )      |
| 1   | Common Bacteria  | < 1   | < 1         | < 1         | < 1         |  | (number/mL) |
| 2   | E.coli   | N.D. ※1   | N.D. ※1     | N.D. ※1     | N.D. ※1     |  | (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)  | < 0.002   |             |             | < 0.002     |  | (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  | 0.2   | 0.2         | 0.1         | 0.2         |  | (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   |   |             | 0.010       |             |  | (mg/L)      |
| 24  | Dichloroacetic acid  |   |             |             |             |  | (mg/L)      |
| 25  | Dibromochloromethane                                       |   |             | 0.002       |             |  | (mg/L)      |
| 26  | Bromate  |   |             | < 0.001     |             |  | (mg/L)      |
| 27  | Total trihalomethanes                                      |   |             | 0.017       |             |  | (mg/L)      |
| 28  | Trichloroacetic acid                                       |   |             |             |             |  | (mg/L)      |
| 29  | Bromodichloromethane                                       |   |             | 0.006       |             |  | (mg/L)      |
| 30  | Bromoform  |   |             | < 0.001     |             |  | (mg/L)      |
| 31  | Formaldehyde   |   |             |             |             |  | (mg/L)      |
| 32  | Zinc   |   |             | < 0.01      |             |  | (mg/L)      |
| 33  | Aluminium  | 0.03  | 0.04        | 0.07        | 0.05        |  | (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   | 3.6   | 4.4         | 5.4         | 4.8         |  | (mg/L)      |
| 37  | Manganese  | < 0.001   | < 0.001     | < 0.001     | < 0.001     |  | (mg/L)      |
| 38  | Chloride ion   | 3.8   | 4.4         | 4.8         | 5.1         |  | (mg/L)      |
| 39  | Calcium, Magnesium (Hardness)                              | 23  | 22          | 24          | 25          |  | (mg/L)      |
| 40  | Total residue  | 49  |             |             | 40          |  | (mg/L)      |
| 41  | Anionic surface active agent                               | < 0.02  |             |             | < 0.02      |  | (mg/L)      |
| 42  | Geosmin  |   |             | < 0.000001  | < 0.000001  |  | (mg/L)      |
| 43  | 2-Methylisobolneol   |   |             | < 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)                  | < 0.3   | < 0.3       | < 0.3       | 0.4         |  | (mg/L)      |
| 47  | pH Value   | 7.4   | 7.5         | 7.5         | 7.4         |  |             |
| 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                                  | 0.44  | 0.48        | 0.48        | 0.56        |  | (mg/L)      |

※1 N.D. = Not detected

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