

## Water Quality Tests Results (Sainen)

| No. | Items   | Sainen      |             |             |             |             |             | Unit        |
|-----|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|     |   | 30-Apr-2024 | 16-May-2024 | 26-Jun-2024 | 10-Jul-2024 | 20-Aug-2024 | 18-Sep-2024 |             |
|     | Water temperature                                       | 13.2        | 14.1        | 19.8        | 19.9        | 22.8        | 23.1        | ( °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   |             |             |             |             |             |             | (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)   | < 0.002     |             |             | < 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                                     | 0.2         | 0.2         | 0.2         | 0.2         | 0.2         | 0.3         | (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      | < 0.06      | 0.06        | (mg/L)      |
| 22  | Chloroacetic acid                                       |             |             | < 0.002     |             |             | < 0.002     | (mg/L)      |
| 23  | Chloroform  |             |             | 0.014       |             |             | 0.028       | (mg/L)      |
| 24  | Dichloroacetic acid                                     |             |             | 0.003       |             |             | 0.004       | (mg/L)      |
| 25  | Dibromochloromethane                                    |             |             | < 0.001     |             |             | < 0.001     | (mg/L)      |
| 26  | Bromate   |             |             | < 0.001     |             |             | < 0.001     | (mg/L)      |
| 27  | Total trihalomethanes                                   |             |             | 0.019       |             |             | 0.040       | (mg/L)      |
| 28  | Trichloroacetic acid                                    |             |             | 0.009       |             |             | 0.017       | (mg/L)      |
| 29  | Bromodichloromethane                                    |             |             | 0.004       |             |             | 0.009       | (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   | 0.03        | 0.03        | 0.04        | 0.05        | 0.07        | 0.11        | (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  | 4.4         | 3.9         | 5.2         | 4.7         | 5.8         | 7.2         | (mg/L)      |
| 37  | Manganese   | < 0.001     | < 0.001     | < 0.001     | < 0.001     | < 0.001     | < 0.001     | (mg/L)      |
| 38  | Chloride ion  | 4.3         | 3.6         | 5.5         | 4.7         | 4.5         | 6.7         | (mg/L)      |
| 39  | Calcium, Magnesium (Hardness)                           | 21          | 25          | 26          | 24          | 31          | 28          | (mg/L)      |
| 40  | Total residue   | 41          |             |             | 28          |             |             | (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       | 0.3         | 0.5         | 0.5         | 0.7         | (mg/L)      |
| 47  | pH Value  | 7.5         | 7.4         | 7.4         | 7.5         | 7.6         | 7.6         |             |
| 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                               | 0.44        | 0.42        | 0.46        | 0.44        | 0.56        | 0.42        | (mg/L)      |

※1 N.D. = Not detected

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