

# Drinking Water Test Report

|                               |  |
|-------------------------------|--|
| <b>To:</b>                    | Dairy Flat School  |
| <b>From:</b>                  | Waste Management-Redvale   |
| <b>Sampling Date:</b>         | 26 November 2025   |
| <b>Sampling Locations:</b>    | Staff Room (Figure 1), Health Room (Figure 2), Hall Kitchen (Figure 3) |
| <b>Sampling Source:</b>       | Water Tap  |
| <b>Analytical Institution</b> | Hill Laboratories  |

## Analysis of Results

A summary of the November test results, along with comparisons to the October results and relevant New Zealand, WHO, and US EPA drinking-water standards, is provided in Table 1. The original Hill Labs report is attached at the end.

According to the laboratory results, all drinking-water samples from the Staff Room, Health Room, and Hall Kitchen remained safe and within applicable drinking-water guidelines for November. Compared with October, most chemical parameters (including hardness, alkalinity, conductivity, metals, and dissolved solids) decreased substantially, likely due to dilution from recent rainfall and/or increased tank turnover. The pH remained slightly acidic (6.2–6.3), consistent with typical roof-harvested rainwater and still within acceptable ranges. No E. coli was detected in any sample.

Overall, the November results indicate good water quality, with lower mineral content and no microbiological or chemical contamination concerns.



Figure 1. Staff Room



Figure 2. Health Room



Figure 3. Hall Kitchen

Thanks,

**Dr. Na Zhang (she/her)**

Environmental Engineer Redvale Landfill – Operational and Technical Services

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[www.wm.nz](http://www.wm.nz)

# Drinking Water Test Report



WM New Zealand

Table 1. Summary of Tap Water Test Results for October and November, with Comparison to New Zealand, WHO, and US EPA Drinking-Water Standards

| Parameters                          | Sample Name:<br>Lab Number: | Oct-25     |             |              | Nov-25     |             |              | Drinking Water Standards                       |           |                               |
|-------------------------------------|-----------------------------|------------|-------------|--------------|------------|-------------|--------------|--|-----------|-------------------------------|
|                                     |                             | Staff Room | Health Room | Hall Kitchen | Staff Room | Health Room | Hall Kitchen | NZ Maximum Acceptable Value (MAV) <sup>a</sup> | WHO Limit | US EPA Limit                  |
| <b>Escherichia coli</b>             | MPN / 100mL                 | < 1        | <1          | < 1          | <1         | <1          | <1           | <1   | <1        | <1                            |
| <b>Turbidity</b>                    | NTU                         | 0.37       | 0.41        | 0.12         | 0.20       | 0.21        | 0.11         | ≤5 (aesthetic) <sup>b</sup>                    | <5        | <1 (recommended)              |
| <b>pH</b>                           | pH Units                    | 6.8        | 7.1         | 6.8          | 6.3        | 6.3         | 6.2          | 7.0–8.5 (aesthetic) <sup>b</sup>               | 6.5–8.5   | 6.5–8.5                       |
| <b>Total Alkalinity</b>             | g/m3 as CaCO <sub>3</sub>   | 11         | 13.9        | 10.6         | 3.6        | 3.6         | 3.4          | -  | -         | -                             |
| <b>Free Carbon Dioxide</b>          | g/m3 at 25°C                | 3.3        | 2.1         | 3.4          | 4.0        | 3.8         | 4.2          | -  | -         | -                             |
| <b>Total Hardness</b>               | g/m3 as CaCO <sub>3</sub>   | 14.5       | 16          | 14.5         | 2.3        | 2.5         | 3.2          | ≤200 (aesthetic) <sup>b</sup>                  | <500      | <500                          |
| <b>Electrical Conductivity (EC)</b> | mS/m                        | 6.4        | 7.5         | 6.3          | 1.6        | 1.8         | 1.6          | -  | -         | -                             |
| <b>Electrical Conductivity (EC)</b> | µS/cm                       | 64         | 75          | 63           | 16         | 18          | 16           | -  | <1500     | <2500                         |
| <b>Approx Total Dissolved Salts</b> | g/m3                        | 43         | 50          | 42           | 11         | 12          | 11           | ≤1000 (aesthetic) <sup>b</sup>                 | <1000     | <500 (aesthetic) <sup>b</sup> |
| <b>Total Arsenic</b>                | g/m3                        | < 0.0011   | <0.0011     | < 0.0011     | <0.0011    | <0.0011     | <0.0011      | <0.01  | <0.01     | <0.01                         |

# Drinking Water Test Report



WM New Zealand

|                        |      |         |         |         |         |         |         |                                  |       |                                       |
|------------------------|------|---------|---------|---------|---------|---------|---------|----------------------------------|-------|---------------------------------------|
| <b>Total Boron</b>     | g/m3 | < 0.053 | <0.053  | < 0.053 | <0.053  | <0.053  | <0.053  | <2.4                             | <2.4  | -                                     |
| <b>Total Calcium</b>   | g/m3 | 4.4     | 4.6     | 4.4     | 0.57    | 0.60    | 0.91    | -                                | -     | -                                     |
| <b>Total Copper</b>    | g/m3 | 0.037   | 0.121   | 0.0038  | 0.061   | 0.141   | 0.0037  | <2                               | <2    | <1.3                                  |
| <b>Total Iron</b>      | g/m3 | < 0.021 | 0.023   | < 0.021 | <0.021  | <0.021  | <0.021  | ≤0.3 (aesthetic) <sup>b</sup>    | <0.3  | <0.3                                  |
| <b>Total Lead</b>      | g/m3 | 0.00062 | 0.00118 | 0.00028 | 0.00083 | 0.00088 | 0.00061 | <0.01                            | <0.01 | <0.015                                |
| <b>Total Magnesium</b> | g/m3 | 0.87    | 1.12    | 0.86    | 0.22    | 0.23    | 0.21    | -                                | -     | -                                     |
| <b>Total Manganese</b> | g/m3 | 0.0023  | 0.0035  | 0.0012  | 0.00161 | 0.00157 | 0.00093 | 0.04 (Staining);<br>≤0.1(Taste)  | <0.4  | <0.05<br>(aesthetic) <sup>b</sup>     |
| <b>Total Potassium</b> | g/m3 | 0.53    | 0.53    | 0.53    | 0.187   | 0.187   | 0.172   | -                                | -     | -                                     |
| <b>Total Sodium</b>    | g/m3 | 5.6     | 5.7     | 5.6     | 1.62    | 1.59    | 1.52    | ≤200<br>(aesthetic) <sup>b</sup> | <200  | <20 (health<br>advisory) <sup>c</sup> |
| <b>Total Zinc</b>      | g/m3 | 0.21    | 0.189   | 0.154   | 0.49    | 0.48    | 0.175   | ≤1.5 (aesthetic) <sup>b</sup>    | <3    | <5                                    |
| <b>Chloride</b>        | g/m3 | 9       | 9.6     | 9       | 2.6     | 2.6     | 2.7     | ≤250<br>(aesthetic) <sup>b</sup> | <250  | <250                                  |
| <b>Nitrate-N</b>       | g/m3 | 0.07    | 0.07    | 0.08    | 0.09    | 0.09    | 0.11    | <11.3                            | <11.3 | <10                                   |
| <b>Sulphate</b>        | g/m3 | 4.3     | 4.6     | 4.3     | 0.8     | 0.8     | 0.8     | ≤250<br>(aesthetic) <sup>b</sup> | <250  | <250                                  |

<sup>a</sup> Taken from the 'Water Services (Drinking Water Standards for New Zealand) Regulations 2022'.

<sup>b</sup> Taken from 'Aesthetic Value for Drinking Water Notice 2022' issued by the Water Services Regulator ("Taumata Arowai")

<sup>c</sup> Refer to non-health-related parameters — things that affect the taste, smell, colour, or appearance of water but don't pose a health risk.

## Certificate of Analysis

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|                 |  |                          |                              |        |
|-----------------|--|--------------------------|------------------------------|--------|
| <b>Client:</b>  | Waste Management NZ Limited  | <b>Lab No:</b>           | 4042267                      | DWAPV1 |
| <b>Contact:</b> | Na Zhang<br>C/- Waste Management NZ Limited<br>PO Box 228<br>Silverdale<br>Auckland 0944 | <b>Date Received:</b>    | 27-Nov-2025                  |        |
|                 |  | <b>Date Reported:</b>    | 01-Dec-2025                  |        |
|                 |  | <b>Quote No:</b>         | 141146                       |        |
|                 |  | <b>Order No:</b>         | 3848759                      |        |
|                 |  | <b>Client Reference:</b> | DWSNZ Compliance – Roof/Rain |        |
|                 |  | <b>Add. Client Ref:</b>  | Routine Water + E. coli      |        |
|                 |  | <b>Submitted By:</b>     | Na Zhang                     |        |

### Sample Type: Drinking Water for DWSNZ Compliance

| Sample Name:                       |                                       | DrinkingWater-DFS-SR 26-Nov-2025 1:01 pm |  | Aesthetic Values                    | Maximum Acceptable Values (MAV) |
|------------------------------------|---------------------------------------|--|--|-------------------------------------|---------------------------------|
| Lab Number:                        |                                       | 4042267.1                                |  |                                     |                                 |
| Routine Water + E.coli profile Kit |                                       |  |  |                                     |                                 |
| Escherichia coli                   | MPN / 100mL                           | < 1                                      |  | -                                   | < 1                             |
| Routine Water Profile              |                                       |  |  |                                     |                                 |
| Turbidity                          | NTU                                   | 0.20                                     |  | ≤ 5                                 | -                               |
| pH                                 | pH Units                              | 6.3                                      |  | 7.0 - 8.5                           | -                               |
| Total Alkalinity                   | g/m <sup>3</sup> as CaCO <sub>3</sub> | 3.6                                      |  | -                                   | -                               |
| Free Carbon Dioxide                | g/m <sup>3</sup> at 25°C              | 4.0                                      |  | -                                   | -                               |
| Total Hardness                     | g/m <sup>3</sup> as CaCO <sub>3</sub> | 2.3                                      |  | ≤ 200                               | -                               |
| Electrical Conductivity (EC)       | mS/m                                  | 1.6                                      |  | -                                   | -                               |
| Electrical Conductivity (EC)       | µS/cm                                 | 16                                       |  | -                                   | -                               |
| Approx Total Dissolved Salts       | g/m <sup>3</sup>                      | 11                                       |  | ≤ 1000                              | -                               |
| Total Arsenic                      | g/m <sup>3</sup>                      | < 0.0011                                 |  | -                                   | 0.01                            |
| Total Boron                        | g/m <sup>3</sup>                      | < 0.053                                  |  | -                                   | 2.4                             |
| Total Calcium                      | g/m <sup>3</sup>                      | 0.57                                     |  | -                                   | -                               |
| Total Copper                       | g/m <sup>3</sup>                      | 0.061                                    |  | ≤ 1                                 | 2                               |
| Total Iron                         | g/m <sup>3</sup>                      | < 0.021                                  |  | ≤ 0.3                               | -                               |
| Total Lead                         | g/m <sup>3</sup>                      | 0.00083                                  |  | -                                   | 0.01                            |
| Total Magnesium                    | g/m <sup>3</sup>                      | 0.22                                     |  | -                                   | -                               |
| Total Manganese                    | g/m <sup>3</sup>                      | 0.00161                                  |  | ≤ 0.04 (Staining)<br>≤ 0.10 (Taste) | 0.4                             |
| Total Potassium                    | g/m <sup>3</sup>                      | 0.187                                    |  | -                                   | -                               |
| Total Sodium                       | g/m <sup>3</sup>                      | 1.62                                     |  | ≤ 200                               | -                               |
| Total Zinc                         | g/m <sup>3</sup>                      | 0.49                                     |  | ≤ 1.5                               | -                               |
| Chloride                           | g/m <sup>3</sup>                      | 2.6                                      |  | ≤ 250                               | -                               |
| Nitrate-N                          | g/m <sup>3</sup>                      | 0.09                                     |  | -                                   | 11.3                            |
| Sulphate                           | g/m <sup>3</sup>                      | 0.8                                      |  | ≤ 250                               | -                               |

**Note:** The Maximum Acceptable Values (MAV) are taken from the 'Water Services (Drinking Water Standards for New Zealand) Regulations 2022', published under the authority of the New Zealand Government-2022. Copies of this publication are available from: <https://www.legislation.govt.nz/regulation/public/2022/0168/latest/whole.html>

The standards set limits for the concentration of determinands in drinking water. The Maximum Acceptable Values (MAVs) for any determinand must not be exceeded at any time.

The Aesthetic Values are taken the publication, 'Aesthetic Values for Drinking Water Notice 2022' issued by the Water Services Regulator ("Taumata Arowai"). Aesthetic values specify or provide minimum or maximum values for substances and other characteristics that relate to the acceptability of drinking water to consumers (such as appearance, taste or odour).

Note that the units: g/m<sup>3</sup> are the same as mg/L and ppm.



This Laboratory is accredited by International Accreditation New Zealand (IANZ), which represents New Zealand in the International Laboratory Accreditation Cooperation (ILAC). Through the ILAC Mutual Recognition Arrangement (ILAC-MRA) this accreditation is internationally recognised. The tests reported herein have been performed in accordance with the terms of accreditation, with the exception of tests marked \* or any comments and interpretations, which are not accredited.

### **pH/Alkalinity and Corrosiveness Assessment**

The pH of a water sample is a measure of its acidity or basicity. Waters with a low pH can be corrosive and those with a high pH can promote scale formation in pipes and hot water cylinders.

The guideline level for pH in drinking water is 7.0-8.5. Below this range the water will be corrosive and may cause problems with disinfection if such treatment is used.

The alkalinity of a water is a measure of its acid neutralising capacity and is usually related to the concentration of carbonate, bicarbonate and hydroxide. Low alkalinities ( $25 \text{ g/m}^3$ ) promote corrosion and high alkalinities can cause problems with scale formation in metal pipes and tanks.

With the pH and alkalinity levels found, this water could be corrosive towards metal piping and fixtures.

### **Hardness/Total Dissolved Salts Assessment**

The water contains a very low amount of dissolved solids and would be regarded as being very soft.

### **Nitrate Assessment**

Nitrate-nitrogen at elevated levels is considered undesirable in natural waters as this element can cause a health disorder called methaemaglobinaemia. Very young infants (less than six months old) are especially vulnerable. The 'Water Services (Drinking Water Standards for New Zealand) Regulations 2022' sets a maximum permissible level of  $11.3 \text{ g/m}^3$  as Nitrate-nitrogen ( $50 \text{ g/m}^3$  as Nitrate).

Nitrate-nitrogen was detected in this water but at such a low level to not be of concern.

### **Boron Assessment**

Boron may be present in natural waters and if present at high concentrations can be toxic to plants.

Boron was not detected in this water.

### **Metals Assessment**

Iron and manganese are two problem elements that commonly occur in natural waters. These elements may cause unsightly stains and produce a brown/black precipitate. Iron is not toxic but manganese, at concentrations above  $0.5 \text{ g/m}^3$ , may adversely affect health. At concentrations below this it may cause stains on clothing and sanitary ware.

Iron was not detected in the water

Manganese was found in this water at a low level.

Treatment to remove iron and/or manganese should not be necessary.

### **Bacteriological Tests**

The Drinking Water Standards for NZ state that there should be no Escherichia coli (E coli) in water used for human consumption. The presence of these organisms would indicate that other pathogens of faecal origin may be present. Results obtained for Total Coliforms are only significant if the sample has not also been tested for E coli.

Escherichia coli was not detected in this sample.

### **Final Assessment**

The parameter pH did NOT meet the guidelines laid down in the 'Water Services (Drinking Water Standards for New Zealand) Regulations 2022' and the 'Aesthetic Values for Drinking Water Notice 2022' issued by the Water Services Regulator ("Taumata Arowai") for water which is suitable for drinking purposes.

# Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

| Sample Type: Drinking Water for DWSNZ Compliance |  |   |           |
|--|--|---|-----------|
| Test   | Method Description   | Default Detection Limit                   | Sample No |
| Routine Water Profile                            |  | -   | 1         |
| Filtration, Unpreserved                          | Sample filtration through 0.45µm membrane filter.  | -   | 1         |
| Total Digestion                                  | Nitric acid digestion. APHA 3030 E (modified) : Online Edition.  | -   | 1         |
| Turbidity  | Analysis by Turbidity meter. APHA 2130 B (modified) : Online Edition.  | 0.05 NTU                                  | 1         |
| pH   | pH meter. APHA 4500-H <sup>+</sup> B (modified) : Online Edition. Note: It is not possible to achieve the APHA Maximum Storage Recommendation for this test (15 min) when samples are analysed upon receipt at the laboratory, and not in the field. Samples and Standards are analysed at an equivalent laboratory temperature (typically 18 to 22 °C). Temperature compensation is used. | 0.1 pH Units                              | 1         |
| Total Alkalinity                                 | Titration to pH 4.5 (M-alkalinity), autotitrator. APHA 2320 B (modified for Alkalinity <20) : Online Edition.  | 1.0 g/m <sup>3</sup> as CaCO <sub>3</sub> | 1         |
| Free Carbon Dioxide                              | Calculation: from alkalinity and pH, valid where TDS is not >500 mg/L and alkalinity is almost entirely due to hydroxides, carbonates or bicarbonates. APHA 4500-CO <sub>2</sub> D : Online Edition.   | 1.0 g/m <sup>3</sup> at 25°C              | 1         |
| Total Hardness                                   | Calculation from Total Calcium and Total Magnesium. APHA 2340 B : Online Edition.  | 1.0 g/m <sup>3</sup> as CaCO <sub>3</sub> | 1         |
| Electrical Conductivity (EC)                     | Conductivity meter, 25°C. APHA 2510 B : Online Edition.  | 0.1 mS/m                                  | 1         |
| Electrical Conductivity (EC)                     | Conductivity meter, 25°C. APHA 2510 B : Online Edition.  | 1 µS/cm                                   | 1         |
| Approx Total Dissolved Salts                     | Calculation: from Electrical Conductivity.   | 2 g/m <sup>3</sup>                        | 1         |
| Total Arsenic                                    | Nitric acid digestion, ICP-MS, trace level. APHA 3125 B : Online Edition.  | 0.0011 g/m <sup>3</sup>                   | 1         |
| Total Boron                                      | Nitric acid digestion, ICP-MS, trace level. APHA 3125 B : Online Edition.  | 0.053 g/m <sup>3</sup>                    | 1         |
| Total Calcium                                    | Nitric acid digestion, ICP-MS, trace level. APHA 3125 B : Online Edition.  | 0.053 g/m <sup>3</sup>                    | 1         |
| Total Copper                                     | Nitric acid digestion, ICP-MS, trace level. APHA 3125 B : Online Edition.  | 0.00053 g/m <sup>3</sup>                  | 1         |
| Total Iron                                       | Nitric acid digestion, ICP-MS, trace level. APHA 3125 B : Online Edition.  | 0.021 g/m <sup>3</sup>                    | 1         |
| Total Lead                                       | Nitric acid digestion, ICP-MS, trace level. APHA 3125 B : Online Edition.  | 0.00011 g/m <sup>3</sup>                  | 1         |
| Total Magnesium                                  | Nitric acid digestion, ICP-MS, trace level. APHA 3125 B : Online Edition.  | 0.021 g/m <sup>3</sup>                    | 1         |
| Total Manganese                                  | Nitric acid digestion, ICP-MS, trace level. APHA 3125 B : Online Edition.  | 0.00053 g/m <sup>3</sup>                  | 1         |
| Total Potassium                                  | Nitric acid digestion, ICP-MS, trace level. APHA 3125 B : Online Edition.  | 0.053 g/m <sup>3</sup>                    | 1         |
| Total Sodium                                     | Nitric acid digestion, ICP-MS, trace level. APHA 3125 B : Online Edition.  | 0.021 g/m <sup>3</sup>                    | 1         |
| Total Zinc                                       | Nitric acid digestion, ICP-MS, trace level. APHA 3125 B : Online Edition.  | 0.0011 g/m <sup>3</sup>                   | 1         |
| Chloride   | Filtered sample. Ion Chromatography. APHA 4110 B (modified) : Online Edition.  | 0.5 g/m <sup>3</sup>                      | 1         |
| Nitrate-N  | Filtered sample. Ion Chromatography. APHA 4110 B (modified) : Online Edition.  | 0.05 g/m <sup>3</sup>                     | 1         |
| Sulphate   | Filtered sample. Ion Chromatography. APHA 4110 B (modified) : Online Edition.  | 0.5 g/m <sup>3</sup>                      | 1         |
| Escherichia coli                                 | MPN count using Colilert (Incubated at 35°C for 24 hours) and 97 wells. APHA 9223 B : Online Edition.  | 1 MPN / 100mL                             | 1         |

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Testing was completed between 27-Nov-2025 and 01-Dec-2025. For completion dates of individual analyses please contact the laboratory.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

This certificate of analysis must not be reproduced, except in full, without the written consent of the signatory.



Martin Cowell - BSc  
Client Services Manager - Environmental

## Certificate of Analysis

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|                 |  |                          |                              |        |
|-----------------|--|--------------------------|------------------------------|--------|
| <b>Client:</b>  | Waste Management NZ Limited  | <b>Lab No:</b>           | 4042271                      | DWAPV1 |
| <b>Contact:</b> | Na Zhang<br>C/- Waste Management NZ Limited<br>PO Box 228<br>Silverdale<br>Auckland 0944 | <b>Date Received:</b>    | 27-Nov-2025                  |        |
|                 |  | <b>Date Reported:</b>    | 01-Dec-2025                  |        |
|                 |  | <b>Quote No:</b>         | 141146                       |        |
|                 |  | <b>Order No:</b>         | 3848759                      |        |
|                 |  | <b>Client Reference:</b> | DWSNZ Compliance – Roof/Rain |        |
|                 |  | <b>Add. Client Ref:</b>  | Routine Water + E. coli      |        |
|                 |  | <b>Submitted By:</b>     | Na Zhang                     |        |

### Sample Type: Drinking Water for DWSNZ Compliance

| Sample Name:                       |                                       | DrinkingWater-DFS-HR 26-Nov-2025 1:12 pm |  | Aesthetic Values                    | Maximum Acceptable Values (MAV) |
|------------------------------------|---------------------------------------|--|--|-------------------------------------|---------------------------------|
| Lab Number:                        |                                       | 4042271.1                                |  |                                     |                                 |
| Routine Water + E.coli profile Kit |                                       |  |  |                                     |                                 |
| Escherichia coli                   | MPN / 100mL                           | < 1                                      |  | -                                   | < 1                             |
| Routine Water Profile              |                                       |  |  |                                     |                                 |
| Turbidity                          | NTU                                   | 0.21                                     |  | ≤ 5                                 | -                               |
| pH                                 | pH Units                              | 6.3                                      |  | 7.0 - 8.5                           | -                               |
| Total Alkalinity                   | g/m <sup>3</sup> as CaCO <sub>3</sub> | 3.6                                      |  | -                                   | -                               |
| Free Carbon Dioxide                | g/m <sup>3</sup> at 25°C              | 3.8                                      |  | -                                   | -                               |
| Total Hardness                     | g/m <sup>3</sup> as CaCO <sub>3</sub> | 2.5                                      |  | ≤ 200                               | -                               |
| Electrical Conductivity (EC)       | mS/m                                  | 1.8                                      |  | -                                   | -                               |
| Electrical Conductivity (EC)       | µS/cm                                 | 18                                       |  | -                                   | -                               |
| Approx Total Dissolved Salts       | g/m <sup>3</sup>                      | 12                                       |  | ≤ 1000                              | -                               |
| Total Arsenic                      | g/m <sup>3</sup>                      | < 0.0011                                 |  | -                                   | 0.01                            |
| Total Boron                        | g/m <sup>3</sup>                      | < 0.053                                  |  | -                                   | 2.4                             |
| Total Calcium                      | g/m <sup>3</sup>                      | 0.60                                     |  | -                                   | -                               |
| Total Copper                       | g/m <sup>3</sup>                      | 0.141                                    |  | ≤ 1                                 | 2                               |
| Total Iron                         | g/m <sup>3</sup>                      | < 0.021                                  |  | ≤ 0.3                               | -                               |
| Total Lead                         | g/m <sup>3</sup>                      | 0.00088                                  |  | -                                   | 0.01                            |
| Total Magnesium                    | g/m <sup>3</sup>                      | 0.23                                     |  | -                                   | -                               |
| Total Manganese                    | g/m <sup>3</sup>                      | 0.00157                                  |  | ≤ 0.04 (Staining)<br>≤ 0.10 (Taste) | 0.4                             |
| Total Potassium                    | g/m <sup>3</sup>                      | 0.187                                    |  | -                                   | -                               |
| Total Sodium                       | g/m <sup>3</sup>                      | 1.59                                     |  | ≤ 200                               | -                               |
| Total Zinc                         | g/m <sup>3</sup>                      | 0.48                                     |  | ≤ 1.5                               | -                               |
| Chloride                           | g/m <sup>3</sup>                      | 2.6                                      |  | ≤ 250                               | -                               |
| Nitrate-N                          | g/m <sup>3</sup>                      | 0.09                                     |  | -                                   | 11.3                            |
| Sulphate                           | g/m <sup>3</sup>                      | 0.8                                      |  | ≤ 250                               | -                               |

**Note:** The Maximum Acceptable Values (MAV) are taken from the 'Water Services (Drinking Water Standards for New Zealand) Regulations 2022', published under the authority of the New Zealand Government-2022. Copies of this publication are available from: <https://www.legislation.govt.nz/regulation/public/2022/0168/latest/whole.html>

The standards set limits for the concentration of determinands in drinking water. The Maximum Acceptable Values (MAVs) for any determinand must not be exceeded at any time.

The Aesthetic Values are taken the publication, 'Aesthetic Values for Drinking Water Notice 2022' issued by the Water Services Regulator ("Taumata Arowai"). Aesthetic values specify or provide minimum or maximum values for substances and other characteristics that relate to the acceptability of drinking water to consumers (such as appearance, taste or odour).

Note that the units: g/m<sup>3</sup> are the same as mg/L and ppm.



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### **pH/Alkalinity and Corrosiveness Assessment**

The pH of a water sample is a measure of its acidity or basicity. Waters with a low pH can be corrosive and those with a high pH can promote scale formation in pipes and hot water cylinders.

The guideline level for pH in drinking water is 7.0-8.5. Below this range the water will be corrosive and may cause problems with disinfection if such treatment is used.

The alkalinity of a water is a measure of its acid neutralising capacity and is usually related to the concentration of carbonate, bicarbonate and hydroxide. Low alkalinities ( $25 \text{ g/m}^3$ ) promote corrosion and high alkalinities can cause problems with scale formation in metal pipes and tanks.

With the pH and alkalinity levels found, this water could be corrosive towards metal piping and fixtures.

### **Hardness/Total Dissolved Salts Assessment**

The water contains a very low amount of dissolved solids and would be regarded as being very soft.

### **Nitrate Assessment**

Nitrate-nitrogen at elevated levels is considered undesirable in natural waters as this element can cause a health disorder called methaemaglobinaemia. Very young infants (less than six months old) are especially vulnerable. The 'Water Services (Drinking Water Standards for New Zealand) Regulations 2022' sets a maximum permissible level of  $11.3 \text{ g/m}^3$  as Nitrate-nitrogen ( $50 \text{ g/m}^3$  as Nitrate).

Nitrate-nitrogen was detected in this water but at such a low level to not be of concern.

### **Boron Assessment**

Boron may be present in natural waters and if present at high concentrations can be toxic to plants.

Boron was not detected in this water.

### **Metals Assessment**

Iron and manganese are two problem elements that commonly occur in natural waters. These elements may cause unsightly stains and produce a brown/black precipitate. Iron is not toxic but manganese, at concentrations above  $0.5 \text{ g/m}^3$ , may adversely affect health. At concentrations below this it may cause stains on clothing and sanitary ware.

Iron was not detected in the water

Manganese was found in this water at a low level.

Treatment to remove iron and/or manganese should not be necessary.

### **Bacteriological Tests**

The Drinking Water Standards for NZ state that there should be no Escherichia coli (E coli) in water used for human consumption. The presence of these organisms would indicate that other pathogens of faecal origin may be present. Results obtained for Total Coliforms are only significant if the sample has not also been tested for E coli.

Escherichia coli was not detected in this sample.

### **Final Assessment**

The parameter pH did NOT meet the guidelines laid down in the 'Water Services (Drinking Water Standards for New Zealand) Regulations 2022' and the 'Aesthetic Values for Drinking Water Notice 2022' issued by the Water Services Regulator ("Taumata Arowai") for water which is suitable for drinking purposes.

# Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

| Sample Type: Drinking Water for DWSNZ Compliance |  |   |           |
|--|--|---|-----------|
| Test   | Method Description   | Default Detection Limit                   | Sample No |
| Routine Water Profile                            |  | -   | 1         |
| Filtration, Unpreserved                          | Sample filtration through 0.45µm membrane filter.  | -   | 1         |
| Total Digestion                                  | Nitric acid digestion. APHA 3030 E (modified) : Online Edition.  | -   | 1         |
| Turbidity  | Analysis by Turbidity meter. APHA 2130 B (modified) : Online Edition.  | 0.05 NTU                                  | 1         |
| pH   | pH meter. APHA 4500-H <sup>+</sup> B (modified) : Online Edition. Note: It is not possible to achieve the APHA Maximum Storage Recommendation for this test (15 min) when samples are analysed upon receipt at the laboratory, and not in the field. Samples and Standards are analysed at an equivalent laboratory temperature (typically 18 to 22 °C). Temperature compensation is used. | 0.1 pH Units                              | 1         |
| Total Alkalinity                                 | Titration to pH 4.5 (M-alkalinity), autotitrator. APHA 2320 B (modified for Alkalinity <20) : Online Edition.  | 1.0 g/m <sup>3</sup> as CaCO <sub>3</sub> | 1         |
| Free Carbon Dioxide                              | Calculation: from alkalinity and pH, valid where TDS is not >500 mg/L and alkalinity is almost entirely due to hydroxides, carbonates or bicarbonates. APHA 4500-CO <sub>2</sub> D : Online Edition.   | 1.0 g/m <sup>3</sup> at 25°C              | 1         |
| Total Hardness                                   | Calculation from Total Calcium and Total Magnesium. APHA 2340 B : Online Edition.  | 1.0 g/m <sup>3</sup> as CaCO <sub>3</sub> | 1         |
| Electrical Conductivity (EC)                     | Conductivity meter, 25°C. APHA 2510 B : Online Edition.  | 0.1 mS/m                                  | 1         |
| Electrical Conductivity (EC)                     | Conductivity meter, 25°C. APHA 2510 B : Online Edition.  | 1 µS/cm                                   | 1         |
| Approx Total Dissolved Salts                     | Calculation: from Electrical Conductivity.   | 2 g/m <sup>3</sup>                        | 1         |
| Total Arsenic                                    | Nitric acid digestion, ICP-MS, trace level. APHA 3125 B : Online Edition.  | 0.0011 g/m <sup>3</sup>                   | 1         |
| Total Boron                                      | Nitric acid digestion, ICP-MS, trace level. APHA 3125 B : Online Edition.  | 0.053 g/m <sup>3</sup>                    | 1         |
| Total Calcium                                    | Nitric acid digestion, ICP-MS, trace level. APHA 3125 B : Online Edition.  | 0.053 g/m <sup>3</sup>                    | 1         |
| Total Copper                                     | Nitric acid digestion, ICP-MS, trace level. APHA 3125 B : Online Edition.  | 0.00053 g/m <sup>3</sup>                  | 1         |
| Total Iron                                       | Nitric acid digestion, ICP-MS, trace level. APHA 3125 B : Online Edition.  | 0.021 g/m <sup>3</sup>                    | 1         |
| Total Lead                                       | Nitric acid digestion, ICP-MS, trace level. APHA 3125 B : Online Edition.  | 0.00011 g/m <sup>3</sup>                  | 1         |
| Total Magnesium                                  | Nitric acid digestion, ICP-MS, trace level. APHA 3125 B : Online Edition.  | 0.021 g/m <sup>3</sup>                    | 1         |
| Total Manganese                                  | Nitric acid digestion, ICP-MS, trace level. APHA 3125 B : Online Edition.  | 0.00053 g/m <sup>3</sup>                  | 1         |
| Total Potassium                                  | Nitric acid digestion, ICP-MS, trace level. APHA 3125 B : Online Edition.  | 0.053 g/m <sup>3</sup>                    | 1         |
| Total Sodium                                     | Nitric acid digestion, ICP-MS, trace level. APHA 3125 B : Online Edition.  | 0.021 g/m <sup>3</sup>                    | 1         |
| Total Zinc                                       | Nitric acid digestion, ICP-MS, trace level. APHA 3125 B : Online Edition.  | 0.0011 g/m <sup>3</sup>                   | 1         |
| Chloride   | Filtered sample. Ion Chromatography. APHA 4110 B (modified) : Online Edition.  | 0.5 g/m <sup>3</sup>                      | 1         |
| Nitrate-N  | Filtered sample. Ion Chromatography. APHA 4110 B (modified) : Online Edition.  | 0.05 g/m <sup>3</sup>                     | 1         |
| Sulphate   | Filtered sample. Ion Chromatography. APHA 4110 B (modified) : Online Edition.  | 0.5 g/m <sup>3</sup>                      | 1         |
| Escherichia coli                                 | MPN count using Colilert (Incubated at 35°C for 24 hours) and 97 wells. APHA 9223 B : Online Edition.  | 1 MPN / 100mL                             | 1         |

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Testing was completed between 27-Nov-2025 and 01-Dec-2025. For completion dates of individual analyses please contact the laboratory.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

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Martin Cowell - BSc  
Client Services Manager - Environmental

# Certificate of Analysis

Page 1 of 4

|                 |  |                          |                              |        |
|-----------------|--|--------------------------|------------------------------|--------|
| <b>Client:</b>  | Waste Management NZ Limited  | <b>Lab No:</b>           | 4042265                      | DWAPV1 |
| <b>Contact:</b> | Na Zhang<br>C/- Waste Management NZ Limited<br>PO Box 228<br>Silverdale<br>Auckland 0944 | <b>Date Received:</b>    | 27-Nov-2025                  |        |
|                 |  | <b>Date Reported:</b>    | 01-Dec-2025                  |        |
|                 |  | <b>Quote No:</b>         | 141146                       |        |
|                 |  | <b>Order No:</b>         | 3848759                      |        |
|                 |  | <b>Client Reference:</b> | DWSNZ Compliance – Roof/Rain |        |
|                 |  | <b>Add. Client Ref:</b>  | Routine Water + E. coli      |        |
|                 |  | <b>Submitted By:</b>     | Na Zhang                     |        |

## Sample Type: Drinking Water for DWSNZ Compliance

| Sample Name:                       |                                       | DrinkingWater-DFS-HK 26-Nov-2025 1:03 pm |  | Aesthetic Values                    | Maximum Acceptable Values (MAV) |
|------------------------------------|---------------------------------------|--|--|-------------------------------------|---------------------------------|
| Lab Number:                        |                                       | 4042265.1                                |  |                                     |                                 |
| Routine Water + E.coli profile Kit |                                       |  |  |                                     |                                 |
| Escherichia coli                   | MPN / 100mL                           | < 1                                      |  | -                                   | < 1                             |
| Routine Water Profile              |                                       |  |  |                                     |                                 |
| Turbidity                          | NTU                                   | 0.11                                     |  | ≤ 5                                 | -                               |
| pH                                 | pH Units                              | 6.2                                      |  | 7.0 - 8.5                           | -                               |
| Total Alkalinity                   | g/m <sup>3</sup> as CaCO <sub>3</sub> | 3.4                                      |  | -                                   | -                               |
| Free Carbon Dioxide                | g/m <sup>3</sup> at 25°C              | 4.2                                      |  | -                                   | -                               |
| Total Hardness                     | g/m <sup>3</sup> as CaCO <sub>3</sub> | 3.2                                      |  | ≤ 200                               | -                               |
| Electrical Conductivity (EC)       | mS/m                                  | 1.6                                      |  | -                                   | -                               |
| Electrical Conductivity (EC)       | µS/cm                                 | 16                                       |  | -                                   | -                               |
| Approx Total Dissolved Salts       | g/m <sup>3</sup>                      | 11                                       |  | ≤ 1000                              | -                               |
| Total Arsenic                      | g/m <sup>3</sup>                      | < 0.0011                                 |  | -                                   | 0.01                            |
| Total Boron                        | g/m <sup>3</sup>                      | < 0.053                                  |  | -                                   | 2.4                             |
| Total Calcium                      | g/m <sup>3</sup>                      | 0.91                                     |  | -                                   | -                               |
| Total Copper                       | g/m <sup>3</sup>                      | 0.0037                                   |  | ≤ 1                                 | 2                               |
| Total Iron                         | g/m <sup>3</sup>                      | < 0.021                                  |  | ≤ 0.3                               | -                               |
| Total Lead                         | g/m <sup>3</sup>                      | 0.00061                                  |  | -                                   | 0.01                            |
| Total Magnesium                    | g/m <sup>3</sup>                      | 0.21                                     |  | -                                   | -                               |
| Total Manganese                    | g/m <sup>3</sup>                      | 0.00093                                  |  | ≤ 0.04 (Staining)<br>≤ 0.10 (Taste) | 0.4                             |
| Total Potassium                    | g/m <sup>3</sup>                      | 0.172                                    |  | -                                   | -                               |
| Total Sodium                       | g/m <sup>3</sup>                      | 1.52                                     |  | ≤ 200                               | -                               |
| Total Zinc                         | g/m <sup>3</sup>                      | 0.175                                    |  | ≤ 1.5                               | -                               |
| Chloride                           | g/m <sup>3</sup>                      | 2.7                                      |  | ≤ 250                               | -                               |
| Nitrate-N                          | g/m <sup>3</sup>                      | 0.11                                     |  | -                                   | 11.3                            |
| Sulphate                           | g/m <sup>3</sup>                      | 0.8                                      |  | ≤ 250                               | -                               |

**Note:** The Maximum Acceptable Values (MAV) are taken from the 'Water Services (Drinking Water Standards for New Zealand) Regulations 2022', published under the authority of the New Zealand Government-2022. Copies of this publication are available from: <https://www.legislation.govt.nz/regulation/public/2022/0168/latest/whole.html>

The standards set limits for the concentration of determinands in drinking water. The Maximum Acceptable Values (MAVs) for any determinand must not be exceeded at any time.

The Aesthetic Values are taken the publication, 'Aesthetic Values for Drinking Water Notice 2022' issued by the Water Services Regulator ("Taumata Arowai"). Aesthetic values specify or provide minimum or maximum values for substances and other characteristics that relate to the acceptability of drinking water to consumers (such as appearance, taste or odour).

Note that the units: g/m<sup>3</sup> are the same as mg/L and ppm.



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### **pH/Alkalinity and Corrosiveness Assessment**

The pH of a water sample is a measure of its acidity or basicity. Waters with a low pH can be corrosive and those with a high pH can promote scale formation in pipes and hot water cylinders.

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With the pH and alkalinity levels found, this water could be corrosive towards metal piping and fixtures.

### **Hardness/Total Dissolved Salts Assessment**

The water contains a very low amount of dissolved solids and would be regarded as being very soft.

### **Nitrate Assessment**

Nitrate-nitrogen at elevated levels is considered undesirable in natural waters as this element can cause a health disorder called methaemaglobinaemia. Very young infants (less than six months old) are especially vulnerable. The 'Water Services (Drinking Water Standards for New Zealand) Regulations 2022' sets a maximum permissible level of  $11.3 \text{ g/m}^3$  as Nitrate-nitrogen ( $50 \text{ g/m}^3$  as Nitrate).

Nitrate-nitrogen was detected in this water but at such a low level to not be of concern.

### **Boron Assessment**

Boron may be present in natural waters and if present at high concentrations can be toxic to plants.

Boron was not detected in this water.

### **Metals Assessment**

Iron and manganese are two problem elements that commonly occur in natural waters. These elements may cause unsightly stains and produce a brown/black precipitate. Iron is not toxic but manganese, at concentrations above  $0.5 \text{ g/m}^3$ , may adversely affect health. At concentrations below this it may cause stains on clothing and sanitary ware.

Iron was not detected in the water

Manganese was found in this water at a low level.

Treatment to remove iron and/or manganese should not be necessary.

### **Bacteriological Tests**

The Drinking Water Standards for NZ state that there should be no Escherichia coli (E coli) in water used for human consumption. The presence of these organisms would indicate that other pathogens of faecal origin may be present. Results obtained for Total Coliforms are only significant if the sample has not also been tested for E coli.

Escherichia coli was not detected in this sample.

### **Final Assessment**

The parameter pH did NOT meet the guidelines laid down in the 'Water Services (Drinking Water Standards for New Zealand) Regulations 2022' and the 'Aesthetic Values for Drinking Water Notice 2022' issued by the Water Services Regulator ("Taumata Arowai") for water which is suitable for drinking purposes.

# Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

| Sample Type: Drinking Water for DWSNZ Compliance |  |   |           |
|--|--|---|-----------|
| Test   | Method Description   | Default Detection Limit                   | Sample No |
| Routine Water Profile                            |  | -   | 1         |
| Filtration, Unpreserved                          | Sample filtration through 0.45µm membrane filter.  | -   | 1         |
| Total Digestion                                  | Nitric acid digestion. APHA 3030 E (modified) : Online Edition.  | -   | 1         |
| Turbidity  | Analysis by Turbidity meter. APHA 2130 B (modified) : Online Edition.  | 0.05 NTU                                  | 1         |
| pH   | pH meter. APHA 4500-H <sup>+</sup> B (modified) : Online Edition. Note: It is not possible to achieve the APHA Maximum Storage Recommendation for this test (15 min) when samples are analysed upon receipt at the laboratory, and not in the field. Samples and Standards are analysed at an equivalent laboratory temperature (typically 18 to 22 °C). Temperature compensation is used. | 0.1 pH Units                              | 1         |
| Total Alkalinity                                 | Titration to pH 4.5 (M-alkalinity), autotitrator. APHA 2320 B (modified for Alkalinity <20) : Online Edition.  | 1.0 g/m <sup>3</sup> as CaCO <sub>3</sub> | 1         |
| Free Carbon Dioxide                              | Calculation: from alkalinity and pH, valid where TDS is not >500 mg/L and alkalinity is almost entirely due to hydroxides, carbonates or bicarbonates. APHA 4500-CO <sub>2</sub> D : Online Edition.   | 1.0 g/m <sup>3</sup> at 25°C              | 1         |
| Total Hardness                                   | Calculation from Total Calcium and Total Magnesium. APHA 2340 B : Online Edition.  | 1.0 g/m <sup>3</sup> as CaCO <sub>3</sub> | 1         |
| Electrical Conductivity (EC)                     | Conductivity meter, 25°C. APHA 2510 B : Online Edition.  | 0.1 mS/m                                  | 1         |
| Electrical Conductivity (EC)                     | Conductivity meter, 25°C. APHA 2510 B : Online Edition.  | 1 µS/cm                                   | 1         |
| Approx Total Dissolved Salts                     | Calculation: from Electrical Conductivity.   | 2 g/m <sup>3</sup>                        | 1         |
| Total Arsenic                                    | Nitric acid digestion, ICP-MS, trace level. APHA 3125 B : Online Edition.  | 0.0011 g/m <sup>3</sup>                   | 1         |
| Total Boron                                      | Nitric acid digestion, ICP-MS, trace level. APHA 3125 B : Online Edition.  | 0.053 g/m <sup>3</sup>                    | 1         |
| Total Calcium                                    | Nitric acid digestion, ICP-MS, trace level. APHA 3125 B : Online Edition.  | 0.053 g/m <sup>3</sup>                    | 1         |
| Total Copper                                     | Nitric acid digestion, ICP-MS, trace level. APHA 3125 B : Online Edition.  | 0.00053 g/m <sup>3</sup>                  | 1         |
| Total Iron                                       | Nitric acid digestion, ICP-MS, trace level. APHA 3125 B : Online Edition.  | 0.021 g/m <sup>3</sup>                    | 1         |
| Total Lead                                       | Nitric acid digestion, ICP-MS, trace level. APHA 3125 B : Online Edition.  | 0.00011 g/m <sup>3</sup>                  | 1         |
| Total Magnesium                                  | Nitric acid digestion, ICP-MS, trace level. APHA 3125 B : Online Edition.  | 0.021 g/m <sup>3</sup>                    | 1         |
| Total Manganese                                  | Nitric acid digestion, ICP-MS, trace level. APHA 3125 B : Online Edition.  | 0.00053 g/m <sup>3</sup>                  | 1         |
| Total Potassium                                  | Nitric acid digestion, ICP-MS, trace level. APHA 3125 B : Online Edition.  | 0.053 g/m <sup>3</sup>                    | 1         |
| Total Sodium                                     | Nitric acid digestion, ICP-MS, trace level. APHA 3125 B : Online Edition.  | 0.021 g/m <sup>3</sup>                    | 1         |
| Total Zinc                                       | Nitric acid digestion, ICP-MS, trace level. APHA 3125 B : Online Edition.  | 0.0011 g/m <sup>3</sup>                   | 1         |
| Chloride   | Filtered sample. Ion Chromatography. APHA 4110 B (modified) : Online Edition.  | 0.5 g/m <sup>3</sup>                      | 1         |
| Nitrate-N  | Filtered sample. Ion Chromatography. APHA 4110 B (modified) : Online Edition.  | 0.05 g/m <sup>3</sup>                     | 1         |
| Sulphate   | Filtered sample. Ion Chromatography. APHA 4110 B (modified) : Online Edition.  | 0.5 g/m <sup>3</sup>                      | 1         |
| Escherichia coli                                 | MPN count using Colilert (Incubated at 35°C for 24 hours) and 97 wells. APHA 9223 B : Online Edition.  | 1 MPN / 100mL                             | 1         |

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

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Client Services Manager - Environmental