

DATE OF ISSUE: 30/04/24

REPORT NO: WN240673


## Water Analysis Report

|                               |                 |                        |                                      |
|-------------------------------|-----------------|------------------------|--------------------------------------|
| <b>REPORT NO:</b>             | <b>WN240673</b> | <b>ISSUE DATE:</b>     | <b>30/04/24</b>                      |
| <b>DATE SAMPLES RECEIVED:</b> | <b>2/04/24</b>  | <b>PURCHASE ORDER:</b> |                                      |
| <b>SAMPLES RECEIVED:</b>      | <b>2</b>        | <b>COMMENT:</b>        | Results relate only to items tested. |

|                   |                                      |
|-------------------|--------------------------------------|
| <b>SUBMITTER:</b> | <b>David Cash</b>                    |
| <b>COMPANY:</b>   | Richmond Valley Council              |
| <b>ADDRESS:</b>   | Locked Bag 10<br>CASINO<br>NSW 2470, |

| <b>METHOD ID</b> | <b>ANALYSIS METHOD</b>                                     |
|------------------|--|
| MB402            | E.Coli and Total Coliforms in Water                        |
| MB407            | Heterotrophic Plate Count                                  |
| W107             | EC, pH, Alkalinity & Chloride in water by autotitrator     |
| C806             | Calculations **  |
| W112             | Turbidity of water   |
| W111             | Determination of True and Apparent Colour in Water         |
| W115             | Total Suspended Solids and Fixed/Volatile Suspended Solids |
| W110             | Organic Carbon in water                                    |
| W151             | Nitrite Nitrogen by FIA                                    |
| W153             | Oxidised Nitrogen by FIA                                   |
| W161             | Total Phosphorus or Total Dissolved Phosphorus in water    |
| C804             | Hardness   |
| M670             | Elements and Metals by ICP-AES                             |
| M671             | Elements and Metals by ICP-MS                              |

### REPORT AUTHORISATION

Approved for Release by: 

Sarah Morison  
Coordinator Analytical Services



Accreditation No. 14173  
Accredited for compliance  
with ISO/IEC 17025 - Testing



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| ANALYSIS RESULTS              |        |                        |                    |               |
|-------------------------------|--------|------------------------|--------------------|---------------|
|                               |        |                        | 1                  | 2             |
| Test Description              | LOR    | UNITS                  | RVC Finished Water | RVC Raw Water |
| Date Sampled                  |        | Date                   | 02/04/24           | 02/04/24      |
| Sampled By                    |        |                        | AH                 | AH            |
| Time Sampled                  |        | Time                   | 09:25 AM           | 08:30 AM      |
| Total coliforms in water      | 1      | MPN/100 mL             | <1                 | 7,200         |
| E.Coli in water               | 1      | MPN/100 mL             | <1                 | 180           |
| Heterotrophic Plate Count_HPC | 2      | MPN                    | <2                 | 3,100         |
| pH                            |        | pH units               | 7.6                | 7.7           |
| TDS <sub>(calc)</sub>         | 6      | mg/L                   | 230                | 150           |
| Electrical Conductivity       | 10     | µS/cm                  | 340                | 230           |
| Alkalinity                    | 14     | mg/L CaCO <sub>3</sub> | 85                 | 91            |
| Turbidity                     | 0.07   | NTU                    | 0.13               | 16            |
| Apparent colour               | 1      | CU                     | <1.0               | 200           |
| True Colour                   | 1      | CU                     | <1.0               | 43            |
| Total Suspended Solids        | 1.0    | mg/L                   | <1.0               | 30            |
| Total Organic Carbon          | 0.2    | mg/L                   | 4.0                | 26            |
| Dissolved Organic Carbon      | 0.2    | mg/L                   | 3.0                | 6.0           |
| Nitrite Nitrogen              | 0.01   | mg/L                   | <0.01              | <0.01         |
| Nitrate Nitrogen              | 0.02   | mg/L                   | 0.33               | 0.086         |
| Total Phosphorus              | 0.03   | mg/L                   | <0.03              | 0.16          |
| Hardness                      | 1.0    | mg/L CaCO <sub>3</sub> | 74                 | 76            |
| Calcium                       | 0.03   | mg/L                   | 15                 | 15            |
| Magnesium                     | 0.006  | mg/L                   | 8.8                | 9.0           |
| Total Aluminium               | 0.001  | mg/L                   | 0.013              | 2.6           |
| Dissolved Aluminium           | 0.001  | mg/L                   | 0.012              | 0.035         |
| Total Iron                    | 0.005  | mg/L                   | <0.0050            | 2.8           |
| Dissolved Iron                | 0.0001 | mg/L                   | 0.0017             | 0.25          |
| Total Manganese               | 0.0005 | mg/L                   | 0.0025             | 0.093         |
| Dissolved Manganese           | 0.0001 | mg/L                   | 0.0011             | 0.016         |

## LABORATORY NOTES

**\*\*NATA Accreditation does not cover the performances of this service.**

As requested, testing for OC/OP, TOC/DOC will be performed by Envirolab, and testing for MIB/Geosmin will be performed by SAS. Results will be forwarded when received by AgEnviro Laboratory.

- Analysis is conducted within the date received and the date the report is finalised.
- Results are expressed on an 'as received' basis unless otherwise stated.
- This report should not be reproduced except in full.
- Samples will be retained for 10 working days from the date of the final report and then discarded.
- Clients wishing to recover their samples must contact the laboratory within this period.
- Sample return is at the clients expense.
- Results for elements analysed by ICP are reported in mg/L for ICP-OES and low level analysis in ug/L for ICP-MS