## 10.2 Drinking Water Annual Report and Factsheet

#### REPORT BY THE WATER QUALITY OFFICER

TO 21 FEBRUARY 2024 ORDINARY MEETING GOV400105, WAT500075

#### RECOMMENDATION

#### **That Council:**

- 1. receive the report by the Water Quality Officer on the Drinking Water Annual Report and Factsheet; and
- 2. note that the *Drinking Water Annual Report* and *Factsheet* will be publicly available and updated yearly.

### **Executive summary**

The Drinking Water Annual Report and Factsheet will be available on the MWRC Website in order to satisfy the requirements of Element 8 (*Community Involvement and Awareness*) of the Australian Drinking Water Guideline Framework for the Management of Drinking Water Quality.

#### Disclosure of Interest

Nil

## Detailed report

The attached *Drinking Water Factsheet* and *Drinking Water Annual Report* will be available on the external website for the Community and will have the data updated yearly.

The Annual Report provides the Community with information on results of drinking water testing in Mudgee, Gulgong and Rylstone as well improvements made to the water supply systems over the last year. The Factsheet provides information on the monitoring program, the Australian Drinking Water Guidelines and has a schematic flowchart of the 3 water supply systems.

Having these two documents available on the website will go some way in satisfying the requirements of Element 8 (*Community Involvement and Awareness*) of the Australian Drinking Water Guidelines Framework for Management of Drinking Water Quality.

The need to keep the Community informed about Water Quality was also identified in the Drinking Water Improvement Plan (Task 179: Annual Report to be published on Website).

## Community Plan implications

Theme	Protecting Our Natural Environment
Goal	Provide total water cycle management
Strategy	Maintain and manage water quantity and quality

# Strategic implications

#### **Council Strategies**

Not Applicable

#### **Council Policies**

The Drinking Water Quality Policy highlights the need to promote community participation in decision-making processes and ensures that community expectations are considered. Having these two documents available on the website will give the community information on their drinking water quality.

#### Legislation

Not Applicable

Financial implications

Not Applicable

**Associated Risks** 

Not Applicable

FRANCOISE PIELTAIN WATER QUALITY OFFICER

JULIAN GEDDES
DIRECTOR OPERATIONS

6 February 2024

Attachments: 1.

. Drinking Water Annual Report 2023.

2. Fact Sheet Drinking Water 2023.

#### APPROVED FOR SUBMISSION:

BRAD CAM
GENERAL MANAGER



# **OVERVIEW**

### Council's report card



### 

100% compliance with Australian Drinking Water Guidelines (ADWG) achieved



#### Aesthetic

100% compliance with ADWG achieved for Mudgee and Rylstone, and 98% for Gulgong.



### Events and improvements

The upgrade of the raw water pump station in Mudgee has been completed. This will allow for increased pumping capacity to the Mudgee Water Treatment Plant in order to cater for predicted population increase.

Unlined cast iron mains in Gulgong are causing occasional clarity issues. Replacement of mains is progressing with around 13km replaced to date. Planning is under way to replace 1.4km of mains in 2024.

There was a cluster of discolored water complaints in Kandos during mid November. This incident was associated with construction works.

### (!) NSW Health Fluoride

Mudgee did not achieve NSW Health target value for Fluoride during 2023. Mudgee fluoride delivery system failed and is currently not operational due to unacceptable WHS risk to Operators. Scope, concept design

and technical specifications for a new system have been completed and received in January 2024.

Council will now seek NSW Health and Department of Climate Change, Energy, the Environment and Water (DCCEEW) approvals to proceed to construction.

Gulgong and Rylstone fluoride delivery systems are operational.

### Verification monitoring of distribution systems

Council is committed to providing the communities of Mudgee, Gulgong, Rylstone, Kandos, Charbon and Clandulla with safe, secure, reliable and high quality water. This annual report is produced to inform the community of the quality of the drinking water over the course of the year.



A gut bacterium. Used as an indicator of fresh faecal contamination of water.



#### HEALTH MEASURES



#### Fluoride

Improves dental health.



#### Free chlorine

Disinfection of the water. At higher levels it can cause taste, odour and health issues.



#### Manganese

Occurs naturally in water. Concentrations over 0.5mg/L can cause health concerns.



#### **AESTHETIC MEASURES**



Indication of how acidic/basic the water is. pH less than 6.5 may be corrosive. pH greater than 8.5 may cause scale and taste problems.



#### Turbidity

A measure of the relative clarity of the water. Turbidity is caused by particles suspended in the water.



#### Iron

Occurs naturally in water. High concentrations stain laundry and fittings.



#### Hardness

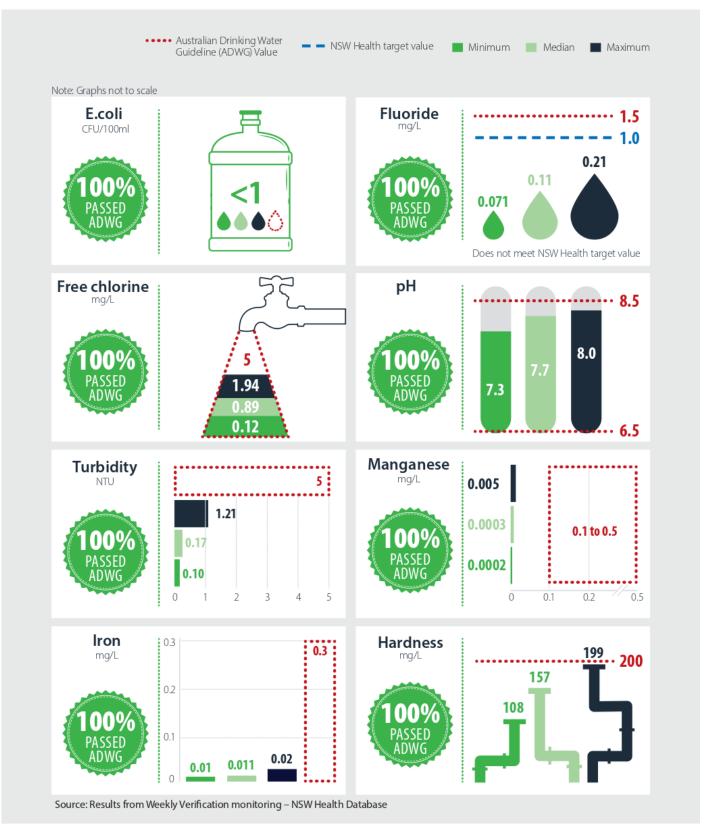
Caused by calcium and magnesium. 60-200mg/L indicates good quality water.



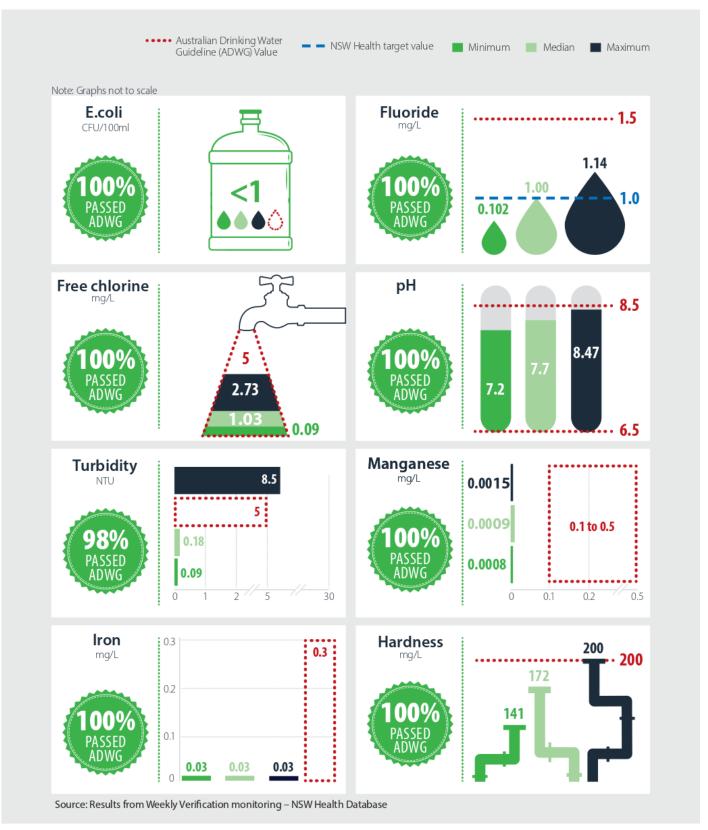
#### Manganese

Occurs naturally in water. Concentrations over 0.1mg/L can cause taste and staining.

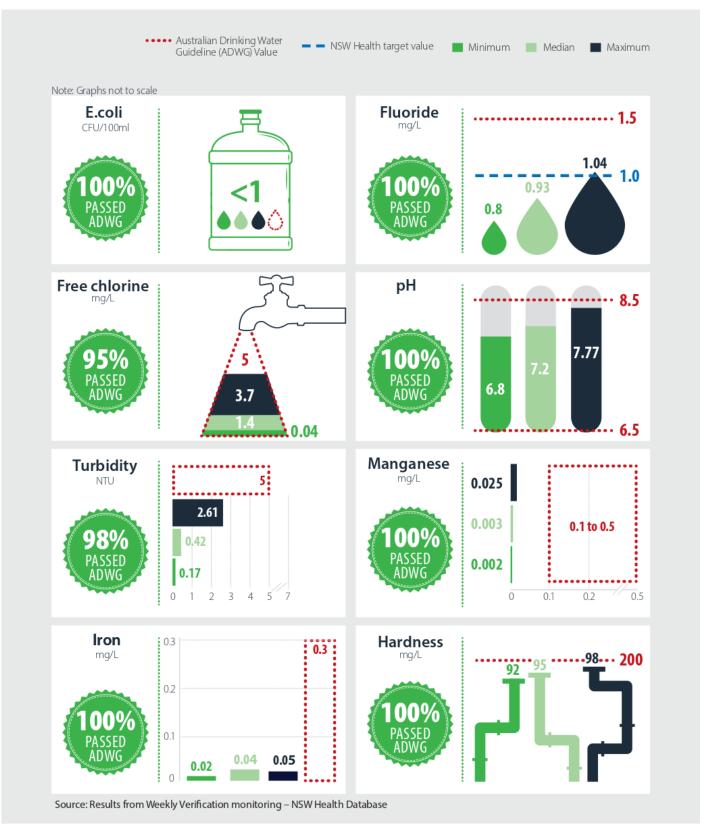
# DRINKING WATER RESULTS - MUDGEE



# DRINKING WATER RESULTS - GULGONG



# DRINKING WATER RESULTS - RYLSTONE



FACT SHEET NO. 031, January 2024

# Mid-Western Regional Council

# Drinking water

Council provides drinking water to communities within Mudgee, Gulgong, Rylstone, Kandos, Charbon and Clandulla. Council complies with its own Drinking Water Management System (DWMS), meeting the requirements of the Public Health Act 2010 and its regulations, and the Australian Drinking Water Guidelines.

#### **OVERVIEW**

Council is committed to providing its residents with safe, secure, reliable and high quality drinking water. To ensure this, Council's Drinking Water Management System requires a range of quality, safety and aesthetic tests be regularly undertaken from the point of collection to the household tap.

#### WATER MONITORING

A comprehensive monitoring program from catchment to tap has been developed in consultation with NSW Health, testing over 35 characteristics including turbidity, colour, micro-organisms and chemicals.

Samples are analysed on site and at accredited laboratory service providers including the NSW Forensic and Analytical Science Service. Monitoring occurs online, daily, weekly, monthly and annually (depending on criticality).

Samples are taken from Rylstone Dam, Cudgegong River, Burrundulla Bores, at the three water filtration plants, and from 38 locations through our water distribution systems.

# WHAT IS THE AUSTRALIAN DRINKING WATER GUIDELINES?

- An authoritative reference on what defines safe, good quality water, how it can be achieved and how it can be assured
- A nationally accepted framework for good management of drinking water supplies based on the best available scientific evidence
- Designed to assure fit for purpose drinking water at its point of use
- Cover safety and aesthetic quality of drinking water through a range of values

#### COUNCIL'S REPORT CARD

#### Health results

100% compliance with ADWG achieved.



#### Aesthetic results

100% compliance with ADWG achieved for Mudgee and Rylstone, and 98% for Gulgong.



#### Events and improvements



- There was a cluster of discolored water complaints in Kandos during mid-November. This incident was associated with construction works
- Unlined cast iron mains in Gulgong are causing occasional clarity issues. Replacement of mains is progressing with around 13km replaced to date. Planning is under way to replace 1.4km of mains in 2024
- Upgrade of the raw water pump station in Mudgee has been completed. This will allow for increased pumping capacity to the Mudgee Water Treatment Plant in order to cater for predicted population increase.

#### NSW Health Fluoride

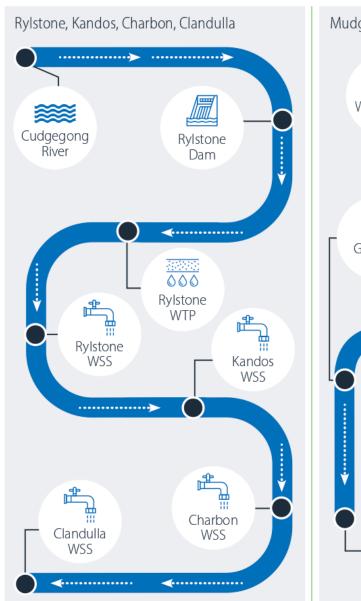


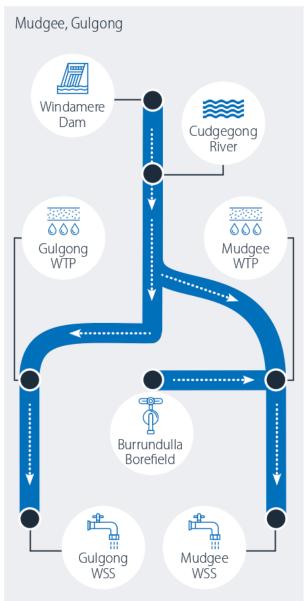
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Gulgong and Rylstone fluoride delivery systems are operational.

FACT SHEET NO. 031, February 2024

#### MID-WESTERN REGION WATER SUPPLY SYSTEMS FLOWCHART





WSS = Water Supply System; WTP = Water Treatment Plant





FOR MORE INFORMATION

Visit Council's website *midwestern.nsw.gov.au* Council's Water and Sewer Team are available to assist on 6378 2850 or at *council@midwestern.nsw.gov.au* 

DISCLAIMER

The information contained in this fact sheet is general in nature and should not be relied upon as the complete source of information to be considered This document is not intended as a substitute for consulting relevant legislation or for obtaining appropriate professional advice relevant to your particular circumstances.