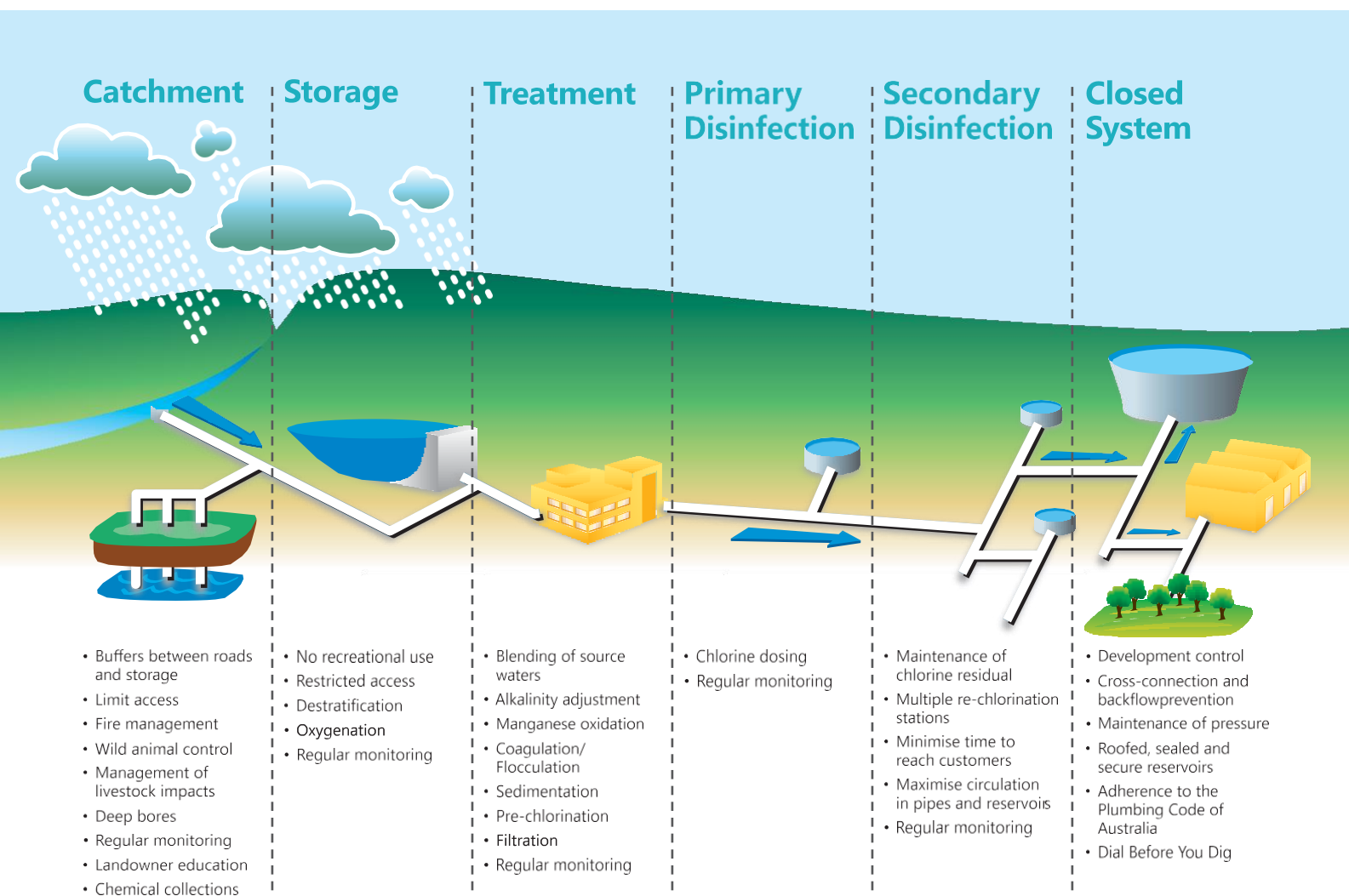


# Annual Summary of Drinking Water Quality

Central  
Coast  
Council

July 2021 to 30 June 2022

## Multi-Barrier approach to protecting drinking water quality



Our on-going drinking water quality management program is a holistic plan - starting at the catchment and ending at your tap. It involved a suite of capital works; maintenance, monitoring and operational strategies - along with communication initiatives - to protect, manage and maintain drinking water quality.

## Monitoring Drinking Water Quality

We monitor water quality at every stage of the supply system to ensure you receive drinking water that meets the requirements of the Australian Drinking Water Guidelines 2011. In addition to online monitoring of critical treatment processes, water samples are taken from the catchment, before and after water treatment plants, from reservoirs and the reticulation system before entering homes. All samples are tested by Council and/or independent laboratories accredited with the National Association of Testing Authorities.

The results presented in this report are from samples obtained from customer taps throughout the supply system to verify that the water supplied to homes and businesses meets the quality requirements of the Australian Drinking Water Guidelines 2011.

## What's Tested?

Your water is regularly tested for a range of physical, chemical and biological characteristics in accordance with the NSW Health Drinking Water Monitoring Program.

Event specific and research monitoring is also undertaken as required. This report provides a summary of the key parameters regularly tested by Council and NSW Health.

## Performance Summary

From July 2021 to 30 June 2022, your physical and chemical water quality complied with the Australian Drinking Water Guidelines 2011<sup>1</sup>.

Positive detection of *E. coli* occurred in samples collected during heavy storms. It was determined that this occurred due to rainfall runoff from hard surfaces into the sample containers. Quality of drinking water supplied to customers was not impacted at this time. Sampling procedures have been modified to prevent this occurring in future.

## Water Quality Test Results

### July 2021 to 30 June 2022

#### Microbiological Sampling and Analysis

Parameter	Guideline Value	Guideline basis	Result	Number of samples
<i>E. coli</i>	100% of test results contain no <i>E. coli</i>	Health	99.6% of test results contain no <i>E. coli</i>	802

#### Physical Sampling and Analysis

Parameter	Units of Measure	Guideline Value	Guideline Basis	Average Result	95th Percentile Result	Number of Samples
True Colour	HU	15	Aesthetic	1	3	24
Turbidity	NTU	5	Aesthetic	0.6	1.4	776
Total Dissolved Solids (TDS)	mg/L	600	Aesthetic	133	157	24
Total Hardness as CaCO <sub>3</sub>	mg/L	200	Aesthetic	57	79	24
Aluminium	mg/L	0.2	Aesthetic	0.06	0.22	24
Antimony	mg/L	0.003	Health	<0.0001	<0.0001	24
Arsenic	mg/L	0.01	Health	<0.001	0.001	24
Barium	mg/L	2	Health	0.016	0.030	24
Boron	mg/L	4	Health	0.024	0.033	24
Cadmium	mg/L	0.002	Health	<0.0001	<0.0001	24
Calcium	mg/L	-	-	17	24	24
Chloride	mg/L	250	Aesthetic	36	53	24
Chromium	mg/L	0.05	Health	<0.001	<0.001	24
Copper	mg/L	2 (1)	Health (Aesthetic)	0.03	0.06	24
Fluoride	mg/L	1.5	Health	0.9	1.0	24
Free Chlorine	mg/L	5	Health	1.12	1.75	801
Iodine	mg/L	0.5	Health	0.02	0.04	24
Iron	mg/L	0.3	Health	0.049	0.22	24
Lead	mg/L	0.01	Health	0.0009	0.0024	24
Magnesium	mg/L	-	-	3.7	4.7	24
Manganese	mg/L	0.5 (0.1)	Health (Aesthetic)	0.02	0.09	24
Mercury	mg/L	0.001	Health	<0.0008	<0.0008	24
Molybdenum	mg/L	0.05	Health	0.0004	0.0010	24
Nickel	mg/L	0.02	Health	0.001	0.001	24
Nitrate	mg/L	50	Health	1.8	4.0	24
Nitrite	mg/L	3	Health	<0.1	<0.1	24
pH		6.5 - 8.5	Aesthetic	7.8	8.0	783
Selenium	mg/L	0.01	Health	<0.007	<0.007	24
Silver	mg/L	0.1	Health	<0.0002	0.0003	24
Sodium	mg/L	180	Health	29	35	24
Sulfate	mg/L	500 (250)	Health (Aesthetic)	35	56	24
Uranium	mg/L	0.017	Health	<0.0001	<0.0001	24
Zinc	mg/L	3	Health	0.03	0.10	24

H.U = Hazen Units. N.T.U = Nephelometric Turbidity Units. mg/L = milligrams per litre (or parts per million). NA = not applicable.

<sup>1</sup>Australian Drinking Water Guidelines 2011. The Australian Drinking Water Guidelines 2011 recognise that occasionally throughout the year there may be health or aesthetic related test results above the Guidelines values, and that these results are not necessarily an immediate threat to health. As such, the Guidelines do not require a 100 per cent result in all cases, with the exception of *E. coli*. Each test result above the guideline value for *E. coli* is investigated and actions taken where necessary to minimise the risk of a recurrence. Disturbances and operational changes can result in occasional localised elevated levels of aesthetic water quality characteristics such as turbidity.