

Monthly Testing Results Report

Program: Yass Water Treatment Plant
Date Collected: 07 January 2020

The Australian Drinking Water Guidelines (ADWG) include two types of measures:

- a **health-related guideline value**, which is the concentration or measure of a water quality characteristic that, based on present knowledge, does not result in any significant risk to the health of the consumer over a lifetime of consumption; and
- an **aesthetic guideline value**, which is the concentration or measure of a water quality characteristic that is associated with acceptability of water to the consumer; for example, appearance, taste and odour.¹

Yass Valley Council reports both Guideline measures in the interests of transparent governance.

Table 1 - Health related test results

Characteristic	Guideline Value	Units	Tested Value	Meeting health-related guideline values
Antimony	0.003	mg/L	<0.001	Yes
Arsenic	0.01	mg/L	0.004	Yes
Barium	2.00	mg/L	0.051	Yes
Boron	4.0	mg/L	<0.1	Yes
Cadmium	0.002	mg/L	<0.0005	Yes
Chromium	0.05	mg/L	<0.005	Yes
Copper	2.000	mg/L	0.024	Yes
Fluoride	1.50	mg/L	1.20	Yes
Lead	0.01	mg/L	0.002	Yes
Manganese	0.500	mg/L	<0.005	Yes
Mercury	0.0010	mg/L	<0.0001	Yes
Molybdenum	0.05	mg/L	<0.005	Yes
Nickel	0.02	mg/L	<0.01	Yes
Nitrate	50	mg/L	1	Yes
Nitrite	3	mg/L	<0.1	Yes
Selenium	0.01	mg/L	<0.002	Yes
Silver	0.1	mg/L	<0.002	Yes
Uranium	0.0170	mg/L	<0.005	Yes

Note: Results are from NSW Health FASS (Forensic and Analytical Science Services) Laboratory

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Table 2 - Aesthetic guideline test results

Characteristic	Guideline Value	Units	Value	Meeting aesthetic-related guideline values
Aluminium	0.20	mg/L	0.10	Yes
Calcium	10000	mg/L	33.3	Yes
Chloride	250	mg/L	107	Yes
Iodine	0.50	mg/L	0.11	Yes
Iron	0.3	mg/L	<0.01	Yes
Magnesium	10000	mg/L	36.47	Yes
Manganese	0.1	mg/L	<0.005	Yes
pH	6.5 - 8.5		7.8	Yes
Sodium	180	mg/L	62	Yes
Sulfate	500	mg/L	37	Yes
Total Dissolved Solids (TDS)	600	mg/L	363	Yes
Total Hardness as CaCO ₃	200.0	mg/L	233.3	No
True Colour	15	Hazen Units	3	Yes
Turbidity	5.0	NTU	2.6	Yes
Zinc	3	mg/L	0.05	Yes

Note: Results are from NSW Health FASS (Forensic and Analytical Science Services) Laboratory

ⁱ Australian Drinking Water Guidelines 6 2011, Version 3.5 Updated August 2018, National Water Quality Management Strategy National Health and Medical Research Council Reference code: EH52