

ANNUAL SUMMARY OF DRINKING WATER QUALITY FOR 2018-2019

February 2020



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Rous County Council is a bulk water supplier providing water to local reservoirs where local councils then take over the job of distributing the water within their townships. Rous County Council supplies bulk water to Ballina Shire Council, excluding Wardell; Byron Shire Council, excluding Mullumbimby; Lismore City Council, excluding Nimbin; and Richmond Valley Council, excluding Casino and all land west of Coraki. Rous County Council also has approximately 2100 of its own customers who are directly connected to the water distribution system.

The water that Rous County Council supplies to our community comes from different catchment areas in the region. Rous County Council operates two Water Treatment Plants (WTPs), Nightcap WTP and Emigrant Creek WTP to filter and treat the water from our dam and river sources.



Monitoring drinking water quality

We monitor water quality at each stage of the supply system to ensure you receive drinking water that meets the quality requirements of Australian Water Drinking Guidelines 2011 (August 2019 Update). Water is tested to ensure that drinking water is safe to drink and meets established water quality standards. It is also tested to enable the adjustment of treatment processes, to monitor catchment conditions (including during heavy rainfall events), maintain the health of the dams, determine the effectiveness of improvement programs, or for research and development.

Independent quality control testing is carried out by Richmond Water Laboratories, a NATA accredited laboratory, and NSW Health. In addition, there is continuous real-time monitoring of key parameters such as pH, turbidity and chlorine.

Samples are taken from more than 50 different sites throughout the Rous supply system. In addition, our Constituent Councils also test the water delivered to their customers. The results presented in this report are from samples obtained from the Rous bulk network, Rous reticulation systems and supply reservoirs throughout the supply system to verify that the water we supply directly to homes, business and constituent councils meets the quality requirements of the Australian Water Drinking Guidelines 2011.

What's tested

Your water is regularly tested for more than 70 physical, chemical, microbiological and radiological parameters in accordance with NSW Health Drinking Water Monitoring Program and Australian Drinking Water Guidelines 2011 to ensure the best water quality possible.

Target levels for all parameters are set well inside of the published guideline values, so that if the concentration or level of any of the parameters in the water starts to change, action can be taken to address the issue before the guideline value is reached.

**Your water quality complied with the Australian Drinking Water Guidelines 2011
for the supply period of 1 July 2018 to 30 June 2019.**

Water quality test results 1 July 2018 to 30 June 2019

		Guideline Value	Guideline Basis		Number of Samples
E. coli	MPN/100mL	100% of test results contain no E. coli	Health	100% of test results contain no E. coli	1283

	Unit	Guideline Value	Guideline Basis	Average Results	95th Percentile Result	Number of Samples
Aluminium	mg/L	0.2	Aesthetic	0.02	0.03	232
Antimony	mg/L	0.003	Health	0.001	0.001	49
Arsenic	mg/L	0.01	Health	0.001	0.001	17
Barium	mg/L	2	Health	0.01	0.01	17
Boron	mg/L	4	Health	0.1	0.1	17
Cadmium	mg/L	0.002	Health	0.0002	0.0006	49
Calcium	mg/L	-	-	18.9	24	232
Hardness as CaCO ₃	mg/L	200	Aesthetic	52	65	232
Chloride	mg/L	250	Aesthetic	15.1	18.6	17
Chlorine	mg/L	5	Health	1.02	1.41	1489
Chromium	mg/L	0.05	Health	0.01	0.01	24
Colour True	Pt-Co	15	Aesthetic	2	2.2	1306
Copper	mg/L	2(1)	Health (Aesthetic)	0.01	0.03	49
Fluoride	mg/L	1.5	Health	0.9	1.02	1748
Iodine	mg/L	0.5	Health	0.02	0.03	17
Iron	mg/L	0.3	Health	0.01	0.01	264
Lead	mg/L	0.01	Health	0.002	0.004	49
Magnesium	mg/L	-	-	1.1	1.6	232
Manganese	mg/L	0.5(0.1)	Health	0.01	0.01	264
Mercury	mg/L	0.001	Health (Aesthetic)	0.0001	0.0001	17
Molybdenum	mg/L	0.05	Health	0.01	0.01	17
Nickel	mg/L	0.02	Health	0.01	0.01	49
Nitrate	mg/L	50	Health	1	1	17
Nitrite	mg/L	3	Health	0.1	0.1	17
pH	pH units	6.5-8.5	Aesthetic	7.6	8.1	1503
Selenium	mg/L	0.01	Health	0.002	0.002	17
Silver	mg/L	0.1	Health	0.002	0.002	17
Sodium	mg/L	180	Health	11.9	14.7	17
Sulphate	mg/L	500(250)	Health (Aesthetic)	1.5	3.2	17
Total Dissolved Solids	mg/L	600	Aesthetic	104	128	233
Turbidity	NTU	5	Aesthetic	0.3	0.4	1503
Uranium	mg/L	0.017	Health	0.005	0.005	17
Zinc	mg/L	3	Health	0.008	0.014	49