

## Drinking Water Quality Summary - September 2021

Shoalhaven Water provides safe and reliable drinking water to approximately 100,000 people in the Shoalhaven on a daily basis. The drinking water we supply is routinely tested throughout our water supply systems with analysis undertaken at independent NATA certified laboratories as per the 2011 Australian Drinking Water Guidelines (ADWG). This detailed water quality monitoring forms part of Shoalhaven Water's framework for the management of drinking water quality. Results are based on samples representative of water supplied to customers' taps. Results for microbiological and key physical/chemical parameters are summarised in the following:

Analyte	ADWG Guideline Health	ADWG Guideline Aesthetic	<	>	Units	Whole of Shoalhaven		Northern Shoalhaven Supply System (Bamarang)		Kangaroo Valley Supply System		Southern Shoalhaven Supply System		Flat Rock Supply System	
						Monthly Average	Monthly Compliance	Monthly Average	Monthly Compliance	Monthly Average	Monthly Compliance	Monthly Average	Monthly Compliance	Monthly Average	Monthly Compliance
<i>E. coli</i>	0	c		>0	MPN/100mL	0	100%	0	100%	0	100%	0	100%	0	100%
Aluminium	c	0.2		>0.2	mg/L	0.0700	100%	0.0700	100%	-	-	0.1000	100%	0.0400	100%
Arsenic	c	0.01		>0.01	mg/L	0.0010	100%	0.0020	100%	-	-	0.0005	100%	0.0005	100%
Cadmium	0.002	c		>0.002	mg/L	0.0001	100%	0.0001	100%	-	-	0.0001	100%	0.0001	100%
Calcium	10000	c		>10000	mg/L	23.7333	100%	23.2000	100%	-	-	25.1000	100%	22.9000	100%
Free Chlorine	5	0.2	<0.2	>5	mg/L	0.7799	94.0%	0.7139	91%	1.1700	100.0%	0.8892	100%	0.7925	100%
Copper	2	1		>2	mg/L	0.0205	100%	0.0099	100%	-	-	0.0080	100%	0.0830	100%
Fluoride	1.5	c		>1.5	mg/L	0.9300	100%	0.9814	100%	0.9300	100%	0.9750	100%	0.9450	100%
Hardness	c	200		>200	mg/L	72.7000	100%	74.2000	100%	-	-	70.4000	100%	73.5000	100%
Iron	c	0.3		>0.3	mg/L	0.0269	100%	0.0321	100%	-	-	0.0200	100%	0.0225	100%
Lead	0.01	c		>0.01	mg/L	0.0005	100%	0.0014	100%	-	-	0.0001	100%	0.0001	100%
Magnesium	10000	c		>10000	mg/L	3.2633	100%	3.9600	100%	-	-	1.8700	100%	3.9600	100%
Manganese	0.5	0.1		>0.5	mg/L	0.0071	100%	0.0099	100%	-	-	0.0018	100%	0.0081	100%
Mercury	0.001	c		>0.001	mg/L	0.0004	100%	0.0004	100%	-	-	0.0004	100%	0.0004	100%
Nickel	0.02	c		>0.02	mg/L	0.0009	100%	0.0021	100%	-	-	0.0002	100%	0.0004	100%
Nitrate (as NO <sub>3</sub> )	50	c		>50	mg/L	0.2392	100%	0.2100	100%	-	-	0.1375	100%	0.5450	100%
Nitrite (as NO <sub>2</sub> )	3	c		>3	mg/L	0.0154	100%	0.0114	100%	-	-	0.0163	100%	0.0275	100%
pH	c	6.5-8.5	<6.5	>8.5	pH units	7.8881	100%	7.8891	100%	7.8150	100%	7.9238	100%	7.8325	100%
Selenium	0.01	c		>0.01	mg/L	0.0035	100%	0.0035	100%	-	-	0.0035	100%	0.0035	100%
Silver	0.1	c		>0.1	mg/L	0.0001	100%	0.0001	100%	-	-	0.0001	100%	0.0001	100%
Sodium	c	180		>180	mg/L	10.3333	100%	11.0000	100%	-	-	9.0000	100%	11.0000	100%
Sulfate	500	250		>500	mg/L	18.0000	100%	22.0000	100%	-	-	10.0000	100%	22.0000	100%
TDS <sup>2</sup>	c	600		>600	mg/L	125.6923	100%	137.4286	100%	-	-	110.0000	100%	116.0000	100%
True Colour	c	15		>15	HU	1.0000	100%	1.0000	100%	-	-	1.0000	100%	1.0000	100%
Turbidity	c	5		>5	NTU	0.3769	100%	0.4145	100%	0.0875	100%	0.2915	100%	0.5025	100%
Uranium	0.017	c		>0.017	mg/L	0.0001	100%	0.0001	100%	-	-	0.0001	100%	0.0001	100%
Zinc	c	3		>3	mg/L	0.0050	100%	0.0050	100%	-	-	0.0050	100%	0.0050	100%

<sup>1</sup> Note that the Australian Drinking Water Guidelines (ADWG) specifies water quality standards that are considered safe for people to drink over an entire lifetime. Therefore compliance is based on a statistical measure of results rather than absolute figures.

<sup>2</sup> TDS = Total Dissolved Solids

<sup>3</sup> Corrective action taken for *E. coli* exception and the repeat test result was compliant (all clear). Contact Shoalhaven Water for further information.

- Denotes that this analyte was not tested this month due to either the treatment plant being offline or the required frequency resulted in no sample required for this month.

c Health or Aesthetic limits have not been set by the ADWG.

+ Inadvertent omission

Australian Drinking Water Guidelines 2011:

<http://www.nhmrc.gov.au/guidelines/publications/eh52>