

Drinking Water Quality Summary - December 2020

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	0.0633	100%	0.0500	100%	-	-	0.0900	100%	0.0500	100%
Arsenic	c	0.01		>0.01	mg/L	0.0007	100%	0.0010	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	21.7000	100%	20.4000	100%	-	-	24.8000	100%	19.9000	100%
Free Chlorine	5	0.2	<0.2	>5	mg/L	0.7785	89.0%	0.6442	88%	1.2375	100.0%	1.1807	93%	0.6167	67%
Copper	2	1		>2	mg/L	0.0128	100%	0.0050	100%	-	-	0.0005	100%	0.0640	100%
Fluoride	1.5	c		>1.5	mg/L	1.0463	100%	1.0640	100%	0.8400	100%	1.0600	100%	1.1500	100%
Hardness	c	200		>200	mg/L	65.3000	100%	66.1000	100%	-	-	65.2000	100%	64.6000	100%
Iron	c	0.3		>0.3	mg/L	0.0193	100%	0.0240	100%	-	-	0.0050	100%	0.0100	100%
Lead	0.01	c		>0.01	mg/L	0.0001	100%	0.0001	100%	-	-	0.0001	100%	0.0001	100%
Magnesium	10000	c		>10000	mg/L	2.7000	100%	3.6800	100%	-	-	0.8000	100%	3.6200	100%
Manganese	0.5	0.1		>0.5	mg/L	0.0060	100%	0.0056	100%	-	-	0.0042	100%	0.0100	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	0.0028	100%	0.0004	100%	-	-	0.0002	100%	0.0079	100%
Nitrate (as NO ₃)	50	c		>50	mg/L	0.3257	100%	0.1560	100%	-	-	0.5000	100%	1.0000	100%
Nitrite (as NO ₂)	3	c		>3	mg/L	0.0257	100%	0.0160	100%	-	-	0.0500	100%	0.0500	100%
pH	c	6.5-8.5	<6.5	>8.5	pH units	7.7728	99%	7.7511	98%	7.5550	100%	7.9047	100%	7.7825	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	9.6667	100%	10.0000	100%	-	-	9.0000	100%	10.0000	100%
Sulfate	500	250		>500	mg/L	17.6667	100%	24.0000	100%	-	-	3.0000	100%	26.0000	100%
TDS ²	c	600		>600	mg/L	105.1429	100%	108.8000	100%	-	-	91.0000	100%	101.0000	100%
True Colour	c	15		>15	HU	0.6667	100%	0.5000	100%	-	-	0.5000	100%	1.0000	100%
Turbidity	c	5		>5	NTU	0.1838	100%	0.2128	100.00%	0.0200	100%	0.1407	100%	0.1250	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	0.0567	100%	0.0500	100%	-	-	0.0600	100%	0.0600	100%

¹ 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.

² TDS = Total Dissolved Solids

³ 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>