

Drinking Water Quality Summary - March 2019

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	0.0567	100%	0.0700	100%	-	-	0.0400	100%	0.0600	100%
Arsenic	c	0.01		>0.01	mg/L	0.0008	100%	0.0010	100%	-	-	0.0005	100%	0.0010	100%
Cadmium	0.002	c		>0.002	mg/L	0.0003	100%	0.0003	100%	-	-	0.0003	100%	0.0003	100%
Calcium	10000	c		>10000	mg/L	23.7333	100%	22.7000	100%	-	-	24.0000	100%	24.5000	100%
Free Chlorine	5	0.2	<0.2	>5	mg/L	0.4574	63.5%	0.4424	69.4%	0.1300	25.0%	0.5315	53.8%	0.5925	62.5%
Copper	2	1		>2	mg/L	0.0067	100%	0.0045	100%	-	-	0.0115	100%	0.0073	100%
Fluoride	1.5	c		>1.5	mg/L	1.0085	100%	0.9957	100%	1.0100	100%	1.0533	100%	0.9850	100%
Hardness	c	200		>200	mg/L	72.6000	100%	74.1000	100%	-	-	65.7000	100%	78.0000	100%
Iron	c	0.3		>0.3	mg/L	0.0317	100%	0.0257	100%	-	-	0.0200	100%	0.0700	100%
Lead	0.01	c		>0.01	mg/L	0.0010	100%	0.0010	100%	-	-	0.0010	100%	0.0010	100%
Magnesium	10000	c		>10000	mg/L	3.2433	100%	4.2400	100%	-	-	1.4000	100%	4.0900	100%
Manganese	0.5	0.1		>0.5	mg/L	0.0075	100%	0.0067	100%	-	-	0.0050	100%	0.0140	100%
Mercury	0.001	c		>0.001	mg/L	0.0001	100%	0.0001	100%	-	-	0.0001	100%	0.0001	100%
Nickel	0.02	c		>0.02	mg/L	0.0050	100%	0.0050	100%	-	-	0.0050	100%	0.0050	100%
Nitrate (as NO ₃)	50	c		>50	mg/L	0.1467	100%	0.0914	100%	-	-	0.1933	100%	0.2700	100%
Nitrite (as NO ₂)	3	c		>3	mg/L	0.0163	100%	0.0114	100%	-	-	0.0200	100%	0.0275	100%
pH	c	6.5-8.5	<6.5	>8.5	pH units	7.6045	98.7%	7.6129	98.0%	7.2650	100%	7.8100	100.0%	7.3878	100%
Selenium	0.01	c		>0.01	mg/L	0.0010	100%	0.0010	100%	-	-	0.0010	100%	0.0010	100%
Silver	0.1	c		>0.1	mg/L	0.0010	100%	0.0010	100%	-	-	0.0010	100%	0.0010	100%
Sodium	c	180		>180	mg/L	12.6667	100%	13.0000	100%	-	-	13.0000	100%	12.0000	100%
Sulfate	500	250		>500	mg/L	16.0000	100%	22.0000	100%	-	-	4.0000	100%	22.0000	100%
TDS ²	c	600		>600	mg/L	123.8333	100%	133.5714	100%	-	-	103.6667	100%	120.0000	100%
True Colour	c	15		>15	HU	1.3333	100%	1.0000	100%	-	-	1.0000	100%	2.0000	100%
Turbidity	c	5		>5	NTU	0.5549	99%	0.5143	100.00%	0.3175	100%	0.4500	100%	1.0533	89%
Uranium	0.017	c		>0.017	mg/L	0.0025	100%	0.0025	100.00%	-	-	0.0025	100%	0.0025	100%
Zinc	c	3		>3	mg/L	0.0050	100%	0.0050	100%	-	-	0.0050	100%	0.0050	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