



## Drinking Water Quality Summary - February 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	0.0625	100%	0.1000	100%	0.0200	100%	0.0800	100%	0.0500	100%
Arsenic	c	0.01		>0.01	mg/L	0.0006	100%	0.0010	100%	0.0005	100%	0.0005	100%	0.0005	100%
Cadmium	0.002	c		>0.002	mg/L	0.0003	100%	0.0003	100%	0.0003	100%	0.0003	100%	0.0003	100%
Calcium	10000	c		>10000	mg/L	17.5000	100%	20.0000	100%	4.5000	100%	24.6000	100%	20.9000	100%
Free Chlorine	5	0.2	<0.2	>5	mg/L	0.3831	68.6%	0.3151	66.7%	0.5450	75.0%	0.6183	83.3%	0.3833	33.3%
Copper	2	1		>2	mg/L	0.0114	100%	0.0050	100%	0.0495	100%	0.0033	100%	0.0165	100%
Fluoride	1.5	c		>1.5	mg/L	1.0081	100%	1.0145	100%	1.1000	100%	0.9600	100%	0.9750	100%
Hardness	c	200		>200	mg/L	57.1000	100%	66.0000	100%	23.3000	100%	70.9000	100%	68.2000	100%
Iron	c	0.3		>0.3	mg/L	0.0376	100%	0.0468	100%	0.0175	100%	0.0275	100%	0.0175	100%
Lead	0.01	c		>0.01	mg/L	0.0010	100%	0.0010	100%	0.0010	100%	0.0010	100%	0.0010	100%
Magnesium	10000	c		>10000	mg/L	3.2525	100%	3.8900	100%	2.9400	100%	2.3000	100%	3.8800	100%
Manganese	0.5	0.1		>0.5	mg/L	0.0099	100%	0.0119	100%	0.0015	100%	0.0110	100%	0.0063	100%
Mercury	0.001	c		>0.001	mg/L	0.0001	100%	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%	0.0050	100%
Nitrate (as NO <sub>3</sub> )	50	c		>50	mg/L	0.1138	100%	0.0641	100%	0.0400	100%	0.2525	100%	0.2850	100%
Nitrite (as NO <sub>2</sub> )	3	c		>3	mg/L	0.0134	100%	0.0091	100%	0.0050	100%	0.0275	100%	0.0275	100%
pH	c	6.5-8.5	<6.5	>8.5	pH units	7.4853	100.0%	7.4869	100.0%	6.8250	100%	7.6623	100.0%	7.5500	100%
Selenium	0.01	c		>0.01	mg/L	0.0010	100%	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%	0.0010	100%
Sodium	c	180		>180	mg/L	12.7500	100%	11.0000	100%	16.0000	100%	12.0000	100%	12.0000	100%
Sulfate	500	250		>500	mg/L	15.0000	100%	17.0000	100%	-	-	9.0000	100%	19.0000	100%
TDS <sup>2</sup>	c	600		>600	mg/L	134.7500	100%	136.9091	100%	209.0000	100%	100.0000	100%	120.5000	100%
True Colour	c	15		>15	HU	0.8333	100%	1.0000	100%	-	-	0.5000	100%	1.0000	100%
Turbidity	c	5		>5	NTU	0.4336	100%	0.5169	100.00%	0.2300	100%	0.1538	100%	0.4625	100%
Uranium	0.017	c		>0.017	mg/L	0.0025	100%	0.0025	100.00%	0.0025	100%	0.0025	100%	0.0025	100%
Zinc	c	3		>3	mg/L	0.0063	100%	0.0050	100%	0.0050	100%	0.0050	100%	0.0100	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