

## Drinking Water Quality Summary - December 2018

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	0.0733	100%	0.0800	100%	-	-	0.0900	100%	0.0500	100%
Arsenic	c	0.01		>0.01	mg/L	0.0005	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%
Calcium	10000	c		>10000	mg/L	22.4333	100%	22.2000	100%	-	-	23.5000	100%	21.6000	100%
Free Chlorine	5	0.2	<0.2	>5	mg/L	0.6341	93.1%	0.6114	92.9%	0.6750	50.0%	0.6991	100%	0.6867	100%
Copper	2	1		>2	mg/L	0.0089	100%	0.0110	100%	-	-	0.0020	100%	0.0250	100%
Fluoride	1.5	c		>1.5	mg/L	0.9944	100%	1.0289	100%	0.9000	100%	0.9840	100%	0.8300	100%
Hardness	c	200		>200	mg/L	71.7333	100%	71.2000	100%	-	-	73.8000	100%	70.2000	100%
Iron	c	0.3		>0.3	mg/L	0.0293	100%	0.0283	100%	-	-	0.0350	100%	0.0100	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	3.8233	100%	3.8400	100%	-	-	3.6700	100%	3.9600	100%
Manganese	0.5	0.1		>0.5	mg/L	0.0070	100%	0.0074	100%	-	-	0.0051	100%	0.0130	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 <sub>3</sub> )	50	c		>50	mg/L	0.1127	100%	0.0700	100%	-	-	0.1120	100%	0.5000	100%
Nitrite (as NO <sub>2</sub> )	3	c		>3	mg/L	0.0143	100%	0.0106	100%	-	-	0.0140	100%	0.0500	100%
pH	c	6.5-8.5	<6.5	>8.5	pH units	7.7913	100%	7.8049	100%	7.3200	100%	7.8700	100%	7.6450	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	11.6667	100%	11.0000	100%	-	-	12.0000	100%	12.0000	100%
Sulfate	500	250		>500	mg/L	15.6667	100%	15.0000	100%	-	-	16.0000	100%	16.0000	100%
TDS <sup>2</sup>	c	600		>600	mg/L	115.6667	100%	119.3333	100%	-	-	113.6000	100%	93.0000	100%
True Colour	c	15		>15	HU	0.8333	100%	1.0000	100%	-	-	0.5000	100%	1.0000	100%
Turbidity	c	5		>5	NTU	0.4648	100%	0.5412	100%	0.3150	100%	0.1917	100%	0.5375	100%
Uranium	0.017	c		>0.017	mg/L	0.0025	100%	0.0025	100%	-	-	0.0025	100%	0.0025	100%
Zinc	c	3		>3	mg/L	0.0067	100%	0.0100	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