

**GOSFORD CITY COUNCIL  
ANNUAL DRINKING WATER QUALITY REPORT 2007/2008**

Characteristics	Units of measure	Australian Drinking Water Guideline value	Guideline Basis	Average value	
<b>Microbiological</b>	<i>E.coli</i>	Orgs/100mL	98% of results contain no E.Coli	Health	99% of results <1 <sup>#</sup>
<b>Physical</b>	<i>True Colour</i>	H.U	< 15 HU	Aesthetic	1.03
	<i>Turbidity</i>	N.T.U	< 5 NTU	Aesthetic	0.36
	<i>Total Dissolved Solids</i>	mg/L	< 500	Aesthetic	143.6
	<i>Total hardness, as CaCO3</i>	mg/L	< 200	Aesthetic	34
<b>Chemical</b>	<i>Total Aluminium</i>	mg/L	< 0.2	Aesthetic	0.04
	<i>Antimony</i>	mg/L	< 0.003	Health	<0.001
	<i>Arsenic</i>	mg/L	< 0.007	Health	<0.001
	<i>Barium</i>	mg/L	< 0.7	Health	0.03
	<i>Boron</i>	mg/L	< 4	Health	<0.1
	<i>Cadmium</i>	mg/L	< 0.002	Health	<0.001
	<i>Calcium</i>	mg/L	N/A	N/A	7.23
	<i>Chloride</i>	mg/L	< 250	Aesthetic	34.9
	<i>Chlorine</i>	mg/L	< 5 (Health) < 0.6 (Aesthetic)	Health/Aesthetic	0.11
	<i>Chromium</i>	mg/L	< 0.05	Health	<0.01
	<i>Copper</i>	mg/L	< 2 (Health) < 1 (Aesthetic)	Health/Aesthetic	0.05
	<i>Fluoride</i>	mg/L	< 1.5mg/L, 95% of results 0.9-1.5mg/L	Health	0.81, 33% of results 0.9-1.5
	<i>Iodine</i>	mg/L	N/A	N/A	0.023
	<i>Iron</i>	mg/L	< 0.3	Aesthetic	0.02
	<i>Lead</i>	mg/L	< 0.01	Health	<0.01
	<i>Magnesium</i>	mg/L	N/A	N/A	3.6
	<i>Manganese</i>	mg/L	< 0.5 (Health) < 0.1 (Aesthetic)	Health/Aesthetic	0.02
	<i>Mercury</i>	mg/L	< 0.001	Health	<0.0001
	<i>Molybdenum</i>	mg/L	< 0.05	Health	<0.005
	<i>Nickel</i>	mg/L	< 0.02	Health	<0.01
	<i>Nitrate</i>	mg/L	< 50	Health	2.1
	<i>Nitrite</i>	mg/L	< 3	Health	<0.1
	<i>pH</i>	Units	6.5-8.5	Aesthetic	7.8
	<i>Selenium</i>	mg/L	< 0.01	Health	<0.01
	<i>Silver</i>	mg/L	< 0.1	Health	<0.01
	<i>Sodium</i>	mg/L	< 180	Aesthetic	38.7
	<i>Sulphate</i>	mg/L	< 500 (Health) < 250 (Aesthetic)	Health/Aesthetic	38
	<i>Zinc</i>	mg/L	< 3	Aesthetic	0.04

Orgs = Organisms

mg/L = milligrams per litre (or parts per million)

H.U = Hazen Units

N.T.U = Nephelometric Turbidity Units

<sup>#</sup> <1 is considered a nil result due to detection limit

The Australian Drinking Water Guidelines 1996 recognise that occasionally throughout the year there may be health or aesthetic related test results above the Guidelines values, and that these results are not necessarily an immediate threat to health. As such, the Guidelines do not require a 100 per cent result in all cases. Disturbances and operational changes can result in occasional localised elevated levels of aesthetic water quality characteristics such as pH. Each test result above the guideline value for E. Coli is investigated and actions taken where necessary to minimise the risk of a recurrence. On rare occasions, dosing equipment problems can result in lowered levels of fluoride.