

Fact sheet

Drinking water distribution system water quality Gold Coast district

Component	Units	Number of tests	Mean	Median	Minimum	Maximum	95%ile	Compliance with ADWG	ADWG value
Aluminium (Acid Soluble)	mg/L	278	0.0235	0.021	<0.005	0.15	0.043	Y	0.2
Ammonia (as NH ₃)	mg/L	59	0.0171	0.017	<0.006	0.074	0.0334	Y	0.5
Arsenic (Total)	mg/L	56	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	Y	0.007
Asbestos		16	N/A	N/A	ND	ND	N/A	Not applicable	No guideline
Boron (Total)	mg/L	20	0.071	<0.03	<0.03	0.33	0.2445	Y	4
Cadmium (Total)	mg/L	59	<0.001	<0.001	<0.001	<0.001	<0.001	Y	0.002
Calcium (Total)	mg/L	56	16.2	16	12	20	18.25	Not applicable	No guideline
Chlorine Free	mg/L	1677	0.27	0.20	<0.05	6.3	0.72	Y	5
Chromium (Total)	mg/L	59	<0.001	<0.001	<0.001	0.002	<0.001	Y	0.05
Copper (Total)	mg/L	59	0.0083	<0.005	<0.005	0.05	0.021	Y	1
Fluoride (Total)	mg/L	140	0.72	0.8	<0.1	1.1	0.9	Y	1.5
Iron (Total)	mg/L	59	0.012	<0.01	<0.01	0.1	0.052	Y	0.3
Lead (Total)	mg/L	59	<0.005	<0.005	<0.005	<0.005	<0.005	Y	0.01
Magnesium (Total)	mg/L	56	1.84	1.8	1	4	3.3	Not applicable	No guideline
Manganese (Total)	mg/L	1668	0.0011	<0.001	<0.001	0.049	0.004	Y	0.1
Mercury (Total)	mg/L	199	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	Y	0.001
Nickel (Total)	mg/L	59	<0.005	<0.005	<0.005	<0.005	<0.005	Y	0.02
Nitrate as (NO ₃)	mg/L	59	0.481	0.35	0.0234	4.2	1.04	Y	50
Nitrite Nitrogen	mg/L	59	<0.01	<0.01	<0.01	<0.01	<0.01	Y	3
pH		1675	7.5	7.5	6.8	9.2	8.23	Y	6.5 - 8.5
Sodium (Total)	mg/L	59	14	14	11	18	17.1	Y	180
Zinc (Total)	mg/L	59	0.038	<0.01	<0.01	0.6	0.212	Y	3

Drinking water distribution system water quality Gold Coast district (continued)

Physical	Units	Number of tests	Mean	Median	Minimum	Maximum	95%ile	Compliance with ADWG	ADWG value
Alkalinity	mg/L	105	43	42	32	56	50	Not applicable	No guideline
Conductivity	mS/cm	557	0.172	0.169	0.142	0.267	0.214	Not applicable	No guideline
Hardness	mg/L	56	48	48	37	56	56	Y	200
Total Dissolved Solids	mg/L	28	121	110	70	260	173	Y	500
True Colour	HU	1675	<2	2	<2	5	3	Y	15
Turbidity	NTU	1675	0.22	0.17	0.05	5.0	0.49	Y	5
Organics	Units	Number of tests	Mean	Median	Minimum	Maximum	95%ile	Compliance with ADWG	ADWG value
Bis (2-Ethylhexyl)	mg/L	14	<0.01	<0.01	<0.01	<0.01	<0.01	Y	0.01
Disinfection By-products	Units	Number of tests	Mean	Median	Minimum	Maximum	95%ile	Compliance with ADWG	ADWG value
Total Trihalomethanes	mg/L	70	0.047	0.05	<0.005	0.076	0.070	Y	0.25
Microbiological	Units	Number of tests	Mean	Median	Minimum	Maximum	% Pass	Compliance with ADWG	ADWG value
<i>E.coli</i>	cfu/100mL	1675	<1	<1	<1	2	99.94%	Y	<1

Comments

AWDG = National Health & Medical Research Council Australian Drinking Water Guidelines 2004

mg/L = Milligrams per Litre (or Parts per Million)

HU = Hazen Units

NTU = Nephelometric Turbidity Units

mS/cm = Millisiemens per Centimetre

CFU/100mL = Colony Forming Units per 100 Millilitres

95%ile = a statistical calculation used for calculating compliance with the ADWG value. In the context of this factsheet, it estimates the value for which 95% of all the water that passes through the distribution system in this 12 month period falls below.

Median = the number in the middle of a set of numbers; that is half the numbers have a value greater than or equal to the median, and half have a value less than or equal to the median.

Mean = the average value of the set of data.

Results calculated on data collected between 1 July 2010 and 30 June 2011.