

Queensland Urban Utilities
Beaudesert Drinking Water Quality July 2012-June 2013

Aesthetic water quality

Aesthetic test description	Units	No of tests	Minimum	Maximum	Average	Aesthetic guideline	Health limit	Scheme compliant with ADWG 2011
Aluminium	mg/L	206	0.005	0.3	0.01	0.2	ns	Yes
Chloride	mg/L	48	57	120	90.5	250	ns	Yes
Iron	mg/L	206	<LOR	1.3	0.03	0.3	ns	Yes
pH	pH Unit	197	6.4	8.3	7.91	6.5-8.5	ns	Yes
Total Dissolved Salts	mg/L	177	150	490	383	600	ns	Yes
Total Hardness	mg/L	48	95	240	166	200	ns	Yes
Turbidity	NTU	206	<LOR	13	0.28	5	ns	Yes
Zinc	mg/L	48	0.0014	0.096	0.02	3	ns	Yes

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Health-related water quality

Health related test description	Units	No of tests	Minimum	Maximum	Average	Aesthetic guideline	Health limit	Scheme compliant with ADWG 2011
Barium	mg/L	48	0.02	0.047	0.03	ns	2	Yes
Cadmium	mg/L	48	<LOR	<LOR	<LOR	ns	0.002	Yes
Chlorine (Total)	mg/L	206	<LOR	3.6	1.2	ns	5	Yes
Chromium	mg/L	48	<LOR	0.005	0	ns	0.05	Yes
Copper	mg/L	48	0.003	0.054	0.01	1	2	Yes
<i>Escherichia coli</i>	CFU/100mL	205	n/a	n/a	n/a	ns	<1	Yes
Fluoride (as F)	mg/L	205	0.62	1.1	0.81	ns	1.5	Yes
Lead	mg/L	48	<LOR	0.005	0.002	ns	0.01	Yes
Manganese	mg/L	206	<LOR	0.017	0.002	0.1	0.5	Yes
Nickel	mg/L	48	<LOR	0.005	0.002	ns	0.02	Yes
Nitrate (as N)	mg/L	12	0.24	0.96	0.44	ns	50	Yes
Nitrite (as N)	mg/L	12	<LOR	<LOR	<LOR	ns	3	Yes
Trihalomethanes (Total)	ug/L	48	50	252	136.4	ns	250	Yes

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Other water quality

Test description	Units	No of tests	Minimum	Maximum	Average	Aesthetic guideline	Health limit	Scheme compliant with ADWG 2011
Alkalinity	mg/L	48	67	210	140	ns	ns	n/a
Ammonia (Total, as N)	mg/L	48	<LOR	0.06	0.01	ns	ns	n/a
Colour (True)	PCU	206	0.25	2.6	0.8	ns	ns	n/a
Conductivity	uS/cm	197	230	760	580	ns	ns	n/a
Temperature	deg C	205	12	30	22	ns	ns	n/a
Calcium	mg/L	36	21	49	37.2	ns	ns	n/a
Magnesium	mg/L	36	11	28	20.4	ns	ns	n/a
Chlorine (Free)	mg/L	206	<LOR	2.8	0.91	ns	ns	n/a
Chlorine (Combined)	mg/L	205	<LOR	1.7	0.3	ns	ns	n/a
Nitrite and Nitrate(as N)	mg/L	36	0.042	0.49	0.21	ns	ns	n/a
Bromodichloromethane	ug/L	36	28	78	46.2	ns	ns	n/a
Bromoform	ug/L	36	<LOR	45	17.7	ns	ns	n/a
Chlorodibromomethane	ug/L	36	<LOR	100	48	ns	ns	n/a
Chloroform	ug/L	36	8	92	42.6	ns	ns	n/a

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Definitions

n/a	not applicable
ns	not set

ADWG = Australian Drinking Water Guidelines 2011.

The ADWG 2011 have been developed by the National Health and Medical Research Council (NHMRC) in collaboration with the Natural Resource Management Ministerial Council (NRMMC). The ADWG incorporates the Framework for the Management of Drinking Water Quality and provides the Australian community and the water supply industry with guidance on what constitutes good quality drinking water.

To access the ADWG go to:

http://www.nhmrc.gov.au/_files_nhmrc/publications/attachments/eh52_aust_drinking_water_guidelines_update_120710_0.pdf

Bacteriological quality

Bacteriological quality is assessed by monitoring the water for the organism *Escherichia coli* as an indicator of contamination. A drinking water scheme is considered bacteriologically safe to drink if no *E. coli* are found in 98 % of samples analysed.

Chemical parameters

QUU reports yearly on a number of water quality parameters.

The performance for chemical parameters with a health value is assessed as recommended by the ADWG. Performance is deemed as satisfactory if the 95th percentile value is less than the ADWG health guideline value.

Performance for parameters with an aesthetic guideline value is assessed as recommended by the ADWG. Water is considered good quality if the mean value of an aesthetical parameter is measured at less than the recommended maximum criteria described in ADWG.