

Queensland Urban Utilities SEQ Water Grid Brisbane Drinking Water Quality July 2010-June 2011

Aesthetic water quality

Aesthetic test description	No of tests	Units	Minimum	Maximum	Average	Aesthetic guideline	Health limit	Scheme compliant with ADWG 2004
2-methylisoborneol	100	ng/L	<2	9.6	2.3	5		Yes
Aluminium	1014	mg/L	0.01	0.15	0.027	0.2		Yes
Ammonia (Free, as N)	1557	mg/L	<0.01	0.430	0.037	0.5		Yes
Ammonia (Total, as N)	1558	mg/L	<0.004	0.890	0.190	0.5		Yes
Chloride	100	mg/L	14	110	49	250		Yes
Colour (True)	1558	PCU	<0.5	3.8	1.2	15		Yes
Geosmin	100	ng/L	<2	11.0	2.5	5		Yes
Hardness (Total)	157	mg/L	67	220	136	200		Yes
Iron	1014	mg/L	0.003	0.460	0.017	0.3		Yes
pH	1558	pH unit	6.7	8.4	7.8	8.5		Yes
pH (Field)	8477	pH unit	6.8	9.4	7.5	8.5		Yes
Sodium	1014	mg/L	12	63	34	180		Yes
Sulfate (measured as SO ₄)	100	mg/L	19	100	40	250		Yes
Total Dissolved Salts	100	mg/L	150	430	249	500		Yes
Turbidity	1558	NTU	0.10	2.80	0.23	5		Yes
Zinc	1014	mg/L	<0.001	0.200	0.004	3		Yes

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Health-related water quality

Health related test description	No of tests	Units	Minimum	Maximum	Average	Aesthetic guideline	Health limit	Scheme compliant with ADWG 2004
Barium	1014	mg/L	<0.01	0.040	0.020		0.7	Yes
Bromodichloromethane	157	µg/L	3.4	48	21		250	Yes
Bromoform	157	µg/L	<2	17	2		250	Yes
Cadmium	1014	mg/L	<0.001	0.0015	<0.001		0.002	Yes
Chlorine (Free)	8498	mg/L	<0.10	12.0	<0.10		5	Yes
Chlorine (Monochloramine)	1	mg/L	3.60	3.60	3.60		4.1	Yes
Chlorine (Total)	10054	mg/L	<0.10	12.00	1.16		5	Yes
Chlorodibromomethane	157	µg/L	<2	58	12		250	Yes
Chloroform	157	µg/L	13	110	35		250	Yes
Chromium	1014	mg/L	<0.001	0.001	<0.001		0.05	Yes
Copper	1014	mg/L	0.003	0.440	0.015		2	Yes
<i>E.coli</i>	8498	cfu/100 mL	<1	3	<1		<1	Yes
Dichloroacetic Acid	156	µg/L	<10	33	11		100	Yes
Fluoride	100	mg/L	0.47	0.89	0.76		1.5	Yes
Lead	1014	mg/L	<0.001	0.012	<0.01		0.01	Yes
Manganese	1014	mg/L	<0.001	0.096	0.007		0.5	Yes
Nickel	1014	mg/L	<0.001	0.002	<0.001		0.02	Yes
Nitrate (as N)	1558	mg/L	<0.01	1.10	0.47		50	Yes
Nitrite (as N)	1558	mg/L	<0.02	0.530	0.064		3	Yes
Trichloroacetic Acid	156	µg/L	<5	25	9		100	Yes
Trihalomethanes (Total)	157	µg/L	31	160	70		250	Yes

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Other water quality

Other test description	No of tests	Units	Minimum	Maximum	Average	Aesthetic guideline	Health limit	Scheme compliant with ADWG 2004
Alkalinity (as CaCO ₃)	100	mg/L	31	230	70			No criterion
Bromide	99	mg/L	<0.01	0.140	0.053			No criterion
Bromochloroacetic Acid	156	µg/L	<10	22	<10			No criterion
Calcium	1014	mg/L	5.2	48	24			No criterion
Chlorate	140	mg/L	<0.01	1.10	0.26			No criterion
Chlorine	7615	mg/L	<0.10	4.10	1.16			No criterion
Conductivity	100	µS/cm	240	670	419			No criterion
Conductivity (Field)	8498	µS/cm	200	710	389			No criterion
Dibromoacetic Acid	156	µg/L	<10	14	<10			No criterion
Haloacetic Acids (Total)	112	µg/L	<60	74	<60			No criterion
Langelier Index	100		-0.79	0.41	-0.38			No criterion
Magnesium	1014	mg/L	3	27	10			No criterion
Monobromoacetic Acid	156	µg/L	<5	<5	<5			No criterion
Monochloroacetic Acid	156	µg/L	<5	<5	<5			No criterion
Nitrite and Nitrate (as N)	1558	mg/L	0.007	1.100	0.537			No criterion
N-Nitrosodimethylamine	9	ng/L	<5	7	<5			No criterion
Potassium	1014	mg/L	1.3	4.2	3.2			No criterion
Silica	100	mg/L	7	21	12			No criterion
Silicon	100	mg/L	3	10	6			No criterion
Temperature	8498	°C	13.0	31.0	22.7			No criterion
Total Organic Carbon	99	mg/L	1.5	12.0	3.2			No criterion
Total Sulfur (as S)	100	mg/L	6.2	34.0	13.5			No criterion

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Notes

- The drinking water quality data is representative of drinking water quality for each scheme for July 2010 to June 2011.
- The drinking water quality monitoring program is designed according to the ADWG 2004 and complies with statutory requirements.
- Health-related water quality complies with the ADWG 2004 that the annual 95th percentile value is less than the recommended ADWG 2004 value.
- Aesthetic water quality complies with the ADWG 2004 in that the annual 50th percentile value is less than the recommended ADWG 2004 value.
- E.coli complies with the ADWG 2004 at least 98% of scheduled samples contain no E.coli.

Definitions

ng/L	Nanograms per litre (equivalent to parts per trillion)
mg/L	Mircograms per litre (equivalent to parts per billion)
mg/L	Milligrams per litre (equivalent to parts per million)
cfu	Colony forming units
MPN	Most probable number
mS/cm	Microsiemens per centimetre
PCU	Platinum cobalt colour units
NTU	Nephelometric turbidity units
ADWG 2004	Australian Drinking Water Guidelines 2004 endorsed by the National Health & Medical Research Council