

Queensland Urban Utilities Jimna 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	11	ng/L	<2	2.4	1.4	5		Yes
Aluminium	11	mg/L	0.014	0.33	0.064	0.2		Yes
Ammonia (Total, as N)	11	mg/L	<0.004	0.017	0.004	0.5		Yes
Chloride	11	mg/L	31	42	35	250		Yes
Colour (True)	11	PCU	<0.5	0.9	<0.5	15		Yes
Geosmin	11	ng/L	<2	6.8	3.7	5		Yes
Hardness (Total)	11	mg/L	50	70	56	200		Yes
Iron	11	mg/L	0.004	0.026	0.010	0.3		Yes
pH	11	pH unit	7.3	7.6	7.5	8.5		Yes
Sodium	11	mg/L	35	86	57	180		Yes
Sulfate (measured as SO ₄)	11	mg/L	22	97	55	250		Yes
Total Dissolved Salts	11	mg/L	180	320	240	500		Yes
Turbidity	11	NTU	0.11	0.53	0.21	5		Yes
Zinc	11	mg/L	0.013	0.027	0.021	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	11	mg/L	<0.01	0.017	0.013		0.7	Yes
Bromodichloromethane	11	µg/L	7.8	29	20		250	Yes
Bromoform	11	µg/L	<2	3	2		250	Yes
Cadmium	11	mg/L	<0.001	<0.001	<0.001		0.002	Yes
Chlorine (Free)	49	mg/L	<0.10	2.80	0.88		5	Yes
Chlorodibromomethane	11	µg/L	6	20	12		250	Yes
Chloroform	11	µg/L	6	51	30		250	Yes
Chromium	11	mg/L	<0.001	<0.001	<0.001		0.05	Yes
Copper	11	mg/L	0.003	0.008	0.005	1	2	Yes
Dichloroacetic Acid	11	µg/L	<10	30	14		100	Yes
<i>E.coli</i>	50	cfu/100 mL	<1	<1	<1		<1	Yes
Fluoride (as F)	11	mg/L	<0.1	0.16	<0.1		1.5	Yes
Lead	11	mg/L	<0.001	0.001	<0.001		0.01	Yes
Manganese	11	mg/L	<0.001	0.010	0.003	0.1	0.5	Yes
Nickel	11	mg/L	<0.001	<0.001	<0.001		0.02	Yes
Nitrate (as N)	11	mg/L	0.01	0.07	0.04		50	Yes
Nitrite (as N)	11	mg/L	<0.002	0.001	<0.002		3	Yes
Trichloroacetic Acid	11	µg/L	<5	35	15		100	Yes
Trihalomethanes (Total)	11	µg/L	26	87	64		250	Yes

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Other water quality

Test description	No of tests	Units	Minimum	Maximum	Average	Aesthetic guideline	Health limit	Scheme compliant with ADWG 2004
Alkalinity (as CaCO ₃)	11	mg/L	52	94	70			No criterion
Bromide	11	mg/L	<0.01	0.091	0.034			No criterion
Bromochloroacetic Acid	11	µg/L	<10	11	<10			No criterion
Calcium	11	mg/L	8.4	12	10			No criterion
Chlorate	11	mg/L	0.29	0.64	0.47			No criterion
Chlorine (Combined)	46	mg/L	<0.10	1.50	0.24			No criterion
Chlorine (Total)	49	mg/L	0.11	3.00	1.10			No criterion
Conductivity	11	µS/cm	270	500	374			No criterion
Dibromoacetic Acid	11	µg/L	<10	<10	<10			No criterion
Haloacetic Acids (Total)	9	µg/L	<60	71	<60			No criterion
Langelier Index	11		-1.30	-0.82	-1.04			No criterion
Magnesium	11	mg/L	7	10	8			No criterion
Monobromoacetic Acid	11	µg/L	<5	<5	<5			No criterion
Monochloroacetic Acid	11	µg/L	<5	<5	<5			No criterion
Nitrite and Nitrate (as N)	11	mg/L	0.011	0.065	0.035			No criterion
Potassium	11	mg/L	1.0	1.8	1.3			No criterion
Silica	11	mg/L	12	18	15			No criterion
Silicon	11	mg/L	6	9	7			No criterion
Total Organic Carbon	11	mg/L	1.1	3.1	2.1			No criterion
Total Sulfur (as S)	11	mg/L	7.2	32.0	18.1			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