Queensland Urban Utilities
Somerset Township 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	12	0.0084	0.036	0.02	0.2	ns	n/a
Chlorine (Free)	mg/L	52	<LOR	2.8	1.35	250	ns	n/a
Iron	mg/L	12	0.016	0.057	0.04	0.3	ns	n/a
pH	pH Unit	12	7	7.9	7.49	6.5-8.5	ns	n/a
Total Dissolved Salts	mg/L	12	160	190	168	600	ns	n/a
Total Hardness	mg/L	12	34	64	53	200	ns	n/a
Turbidity	NTU	12	0.15	0.36	0.21	5	ns	n/a
Zinc	mg/L	12	0.0074	0.018	0.01	3	ns	n/a

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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	12	0.013	0.019	0.02	ns	2	Yes
Cadmium	mg/L	12	<LOR	<LOR	<LOR	ns	0.002	Yes
Chlorine (Total)	mg/L	52	<LOR	3.3	1.66	ns	5	Yes
Chromium	mg/L	12	<LOR	<LOR	<LOR	ns	0.05	Yes
Copper	mg/L	12	0.0028	0.012	0.01	1	2	Yes
Dichloroacetic Acid	ug/L	12	32	67	45.1	ns	100	Yes
Escherichia coli	CFU/100mL	52	n/a	n/a	n/a	ns	<1	Yes
Fluoride (as F)	mg/L	12	<LOR	0.064	<LOR	ns	1.5	Yes
Lead	mg/L	12	<LOR	<LOR	<LOR	ns	0.01	Yes
Manganese	mg/L	12	0.0019	0.0061	0.003	0.1	0.5	Yes
Monochloroacetic Acid	ug/L	12	<LOR	<LOR	<LOR	ns	150	Yes
Nickel	mg/L	12	<LOR	<LOR	<LOR	ns	0.02	Yes
Nitrate (as N)	mg/L	12	<LOR	0.23	0.11	ns	50	Yes
Nitrite (as N)	mg/L	12	<LOR	<LOR	<LOR	ns	3	Yes
Sulfate (as SO4)	mg/L	12	31	51	36.8	250	500	Yes
Trichloroacetic Acid	ug/L	12	16	57	30.5	ns	100	Yes
Trihalomethanes (Total)	ug/L	12	62	110	76.6	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
2-Methylisoborneol	ng/L	12	<LOR	10	<LOR	ns	ns	n/a
Alkalinity	mg/L	12	32	44	37.8	ns	ns	n/a
Ammonia (Total, as N)	mg/L	12	<LOR	0.005	<LOR	ns	ns	n/a
Bromide	mg/L	12	<LOR	1.3	0.13	ns	ns	n/a
Bromochloroacetic Acid	ug/L	12	<LOR	15	11.4	ns	ns	n/a
Bromodichloromethane	ug/L	12	12	37	21.3	ns	ns	n/a
Bromoform	ug/L	12	<LOR	2.8	<LOR	ns	ns	n/a
Calcium	mg/L	12	7.2	12	10.7	ns	ns	n/a
Chlorate	mg/L	12	0.063	0.76	0.34	ns	ns	n/a
Chloride	mg/L	12	20	38	29.6	ns	ns	n/a
Chlorine (Combined)	mg/L	52	<LOR	0.9	0.31	ns	ns	n/a
Chlorodibromomethane	ug/L	12	3.6	17	8.9	ns	ns	n/a
Chloroform	ug/L	12	34	75	46.1	ns	ns	n/a
Colour (True)	PCU	12	<LOR	0.8	0.5	ns	ns	n/a

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Conductivity	uS/cm	12	240	290	259	ns	ns	n/a
Dibromoacetic Acid	ug/L	12	<LOR	<LOR	<LOR	ns	ns	n/a
Geosmin	ng/L	12	2.9	15	7.2	ns	ns	n/a
Haloacetic Acids (Total)	ug/L	12	<LOR	130	84.3	ns	ns	n/a
Magnesium	mg/L	12	3.9	8.2	6.3	ns	ns	n/a
Monobromoacetic Acid	ug/L	12	<LOR	<LOR	<LOR	ns	ns	n/a
Nitrite and Nitrate(as N)	mg/L	12	0.016	0.23	0.11	ns	ns	n/a
Potasium	mg/L	12	2	2.3	2.1	ns	ns	n/a
Silica	mg/L	12	11	12	11.4	ns	ns	n/a
Sodium	mg/L	12	26	37	30.9	ns	ns	n/a
Temperature	deg C	34	16	28	24	ns	ns	n/a
Total Organic Carbon	mg/L	12	2.1	2.6	2.38	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.