

## Queensland Urban Utilities SEQ Water Grid Ipswich 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
Aluminium	596	mg/L	<0.01	0.55	0.029	0.2		Yes
Ammonia (Total, as N)	125	mg/L	<0.02	0.800	0.194	0.5		Yes
Chloride	143	mg/L	20	114	46	250		Yes
Colour (True)	621	PCU	<5	<5	<5	15		Yes
Hardness (Total)	131	mg/L	52	190	95	200		Yes
Iron	596	mg/L	<0.01	1.200	0.032	0.3		Yes
pH	102	pH unit	6.4	8.7	7.8	8.5		Yes
pH (Field)	546	pH unit	5.7	8.7	7.8	8.5		Yes
Total Dissolved Solids	131	mg/L	18	415	183	500		Yes
Turbidity	621	NTU	0.08	13.00	0.54	5		Yes
Zinc	130	mg/L	<0.01	0.300	0.018	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	130	mg/L	<0.01	0.072	0.019		0.7	Yes
Cadmium	130	mg/L	<0.01	<0.01	<0.01		0.002	Yes
Chlorine (Free)	654	mg/L	<0.10	2.40	0.21		5	Yes
Chlorine (Total)	652	mg/L	<0.10	6.40	0.50		4.1	Yes
Chromium	130	mg/L	<0.010	<0.010	<0.010		0.05	Yes
Copper	130	mg/L	<0.01	0.500	0.037		2	Yes
<i>E.coli</i>	648	MPN/100 mL	<1	29	<1		<1	Yes
Fluoride (as F)	620	mg/L	<0.1	1.45	0.55		1.5	Yes
Lead	130	mg/L	<0.01	0.029	<0.01		0.01	Yes
Manganese	596	mg/L	<0.01	0.300	<0.01		0.5	Yes
Nickel	130	mg/L	<0.01	<0.01	<0.01		0.02	Yes
Nitrate (as N)	131	mg/L	<0.02	0.92	0.38		50	Yes
Nitrite (as N)	120	mg/L	<0.01	0.500	0.120		3	Yes
Trihalomethanes (Total)	131	mg/L	13	133	70		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 <sub>3</sub> )	131	mg/L	0	139	73			No criterion
Chlorine (Combined)	615	mg/L	<0.10	4.20	0.33			No criterion
Colour (Apparent)	621	PCU	<5	15	<5			No criterion
Conductivity	640	mS/cm	190	682	374			No criterion
Dissolved Oxygen	89	mg/L	5.9	11.4	8.0			No criterion
Temperature	636	°C	8.8	24.0	22.0			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