

Western Treatment Plant Recycled Water Quality for November 2013 – Post disinfection.

Metals analysis in mg/L	LTV Limit *	STV Limit *	Median
Aluminium	5	20	0.085
Antimony			0.0015
Arsenic	0.1	2	0.002
Barium			0.0045
Beryllium	0.1	0.5	< 0.001
Boron	0.5		0.19
Cadmium	0.01	0.05	< 0.0002
Chromium	0.1	1	< 0.001
Cobalt	0.05	0.1	< 0.001
Copper	0.2	5	0.0055
Iron	0.2	10	< 0.1
Lead	2	5	< 0.001
Lithium	2.5 [#]	2.5 [#]	0.01
Manganese	0.2	10	0.029
Mercury	0.002	0.002	< 0.0001
Molybdenum	0.01	0.05	0.003
Nickel	0.2	2	0.009
Selenium	0.02	0.05	< 0.01
Silver			< 0.001
Thorium			< 0.002
Tin			< 0.001
Vanadium	0.1	0.5	0.0015
Zinc	2	5	0.015

Physical Chemistry	LTV Limit *	STV Limit *	Median
pH			7.7
BOD5 (mg/L)			< 2
Suspended Solids (mg/L)			< 2
E.coli post disinfection (orgs/100mL)			< 1
Total Nitrogen (mg-N/L)	5	25-125	15
Nitrite (mg-N/L)			0.055
Nitrate (mg-N/L)			14
Total Phosphorous (mg-P/L)	0.05	0.8-12	8.3

Salinity Indicators	Median
Sodium (mg/L)	250
Potassium (mg/L)	26
Calcium (mg/L)	31
Magnesium (mg/L)	26
SAR	8
Chloride (mg-Cl/L)	410
TDS (mg/L)	950
TDS Inorganic (mg/L)	850
TDS Organic (mg/L)	100
Electrical Conductivity	1700

Aesthetic Indicator	Median
Colour (Pt/co units)	12

* ARMCANZ / ANZECC Long Term trigger Value (up to 100 years)

* ARMCANZ / ANZECC Short Term trigger Value (up to 20 years)

Lithium STV & LTV for citrus crops is 0.075 mg/l