

## Western Treatment Plant Recycled Water Quality

Metals analysis in mg/L	LTV Limit *	STV Limit *	Median
Aluminium	5	20	0.02
Antimony			0.001
Arsenic	0.1	2	0.002
Barium			0.005
Beryllium	0.1	0.5	0.0005
Boron	0.5		0.15
Cadmium	0.01	0.05	0.0001
Chromium	0.1	1	0.0005
Cobalt	0.05	0.1	0.0005
Copper	0.2	5	0.007
Iron	0.2	10	0.02
Lead	2	5	0.0005
Lithium	2.5 <sup>#</sup>	2.5 <sup>#</sup>	0.01
Manganese	0.2	10	0.011
Mercury	0.002	0.002	0.00005
Molybdenum	0.01	0.05	0.003
Nickel	0.2	2	0.008
Selenium	0.02	0.05	0.0005
Silver			0.0005
Thorium			0.001
Tin			0.0005
Vanadium	0.1	0.5	0.001
Zinc	2	5	0.018

Physical Chemistry	LTV Limit *	STV Limit *	Median
pH			7.4
BOD5 (mg/L)			1.5
Suspended Solids (mg/L)			1
<i>E.coli</i> post disinfection (orgs/100mL)			0
Somatic Coliphage			0.5
Total Nitrogen (mg-N/L)	5	25-125	26
Nitrite (mg-N/L)			0.005
Nitrate (mg-N/L)			25
Total Phosphorous (mg-P/L)	0.05	0.8-12	8.9

Salinity Indicators	Median
Sodium (mg/L)	180
Potassium (mg/L)	20
Calcium (mg/L)	18
Magnesium (mg/L)	15
SAR	7.5
Chloride (mg-Cl/L)	390
TDS (mg/L)	1000
TDS Inorganic (mg/L)	880
TDS Organic (mg/L)	120
Electrical Conductivity	1800

Aesthetic Indicator	Median
Colour (Pt/co units)	10

\* 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