

Western Treatment Plant Recycled Water Quality for November 2014 – Post disinfection.

Metals analysis in mg/L	LTV Limit *	STV Limit *	Median
Aluminium	5	20	0.07
Antimony			0.001
Arsenic	0.1	2	0.002
Barium			0.006
Beryllium	0.1	0.5	< 0.001
Boron	0.5		0.17
Cadmium	0.01	0.05	< 0.0002
Chromium	0.1	1	0.002
Cobalt	0.05	0.1	0.001
Copper	0.2	5	0.006
Iron	0.2	10	0.11
Lead	2	5	< 0.001
Lithium	2.5#	2.5#	0.01
Manganese	0.2	10	0.072
Mercury	0.002	0.002	< 0.0001
Molybdenum	0.01	0.05	0.003
Nickel	0.2	2	0.01
Selenium	0.02	0.05	< 0.001
Silver			< 0.001
Thorium			< 0.002
Tin			< 0.001
Vanadium	0.1	0.5	< 0.001
Zinc	2	5	0.017

Physical Chemistry	LTV Limit *	STV Limit *	Median
pH			< +/-0.1
BOD5 (mg/L)			< 2
Suspended Solids (mg/L)			4.5
E.coli post disinfection (orgs/100mL)			< 1
Somathic Coliphage			< 1
Total Nitrogen (mg-N/L)	5	25-125	12
Nitrite (mg-N/L)			0.03
Nitrate (mg-N/L)			10
Total Phosphorous (mg-P/L)	0.05	0.8-12	7.4

Salinity Indicators	Median
Sodium (mg/L)	260
Potassium (mg/L)	30
Calcium (mg/L)	#N/A
Magnesium (mg/L)	25
SAR	8.6
Chloride (mg-Cl/L)	< 1
TDS (mg/L)	1100
TDS Inorganic (mg/L)	900
TDS Organic (mg/L)	200
Electrical Conductivity	1600

Aesthetic Indicator	Median
Colour (Pt/co units)	14

* 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