

Western Treatment Plant Recycled Water Quality

Metals analysis in mg/L	LTV Limit *	STV Limit *	Median
Aluminium	5	20	0.02
Antimony			0.0005
Arsenic	0.1	2	0.001
Barium			0.006
Beryllium	0.1	0.5	0.0005
Boron	0.5		0.13
Cadmium	0.01	0.05	0.0001
Chromium	0.1	1	0.0005
Cobalt	0.05	0.1	0.0005
Copper	0.2	5	0.005
Iron	0.2	10	0.06
Lead	2	5	0.0005
Lithium	2.5 [#]	2.5 [#]	0.01
Manganese	0.2	10	0.023
Mercury	0.002	0.002	0.00005
Molybdenum	0.01	0.05	0.002
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	0.0005
Zinc	2	5	0.019

Physical Chemistry	LTV Limit *	STV Limit *	Median
pH			7.6
BOD5 (mg/L)			2
Suspended Solids (mg/L)			4.5
<i>E.coli</i> post disinfection (orgs/100mL)			0
Somatic Coliphage			0.5
Total Nitrogen (mg-N/L)	5	25-125	22
Nitrite (mg-N/L)			0.13
Nitrate (mg-N/L)			20
Total Phosphorous (mg-P/L)	0.05	0.8-12	8.2

Salinity Indicators	Median
Sodium (mg/L)	230
Potassium (mg/L)	27
Calcium (mg/L)	24
Magnesium (mg/L)	21
SAR	8.3
Chloride (mg-Cl/L)	350
TDS (mg/L)	840
TDS Inorganic (mg/L)	745
TDS Organic (mg/L)	95
Electrical Conductivity	1700

Aesthetic Indicator	Median
Colour (Pt/co units)	16

* 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