

SRW Summary

Western Treatment Plant Recycled Water Quality

Metals analysis in mg/L	LTV Limit *	STV Limit *	Median
Aluminium	5	20	0.04
Antimony			0.003
Arsenic	0.1	2	0.002
Barium			0.022
Beryllium	0.1	0.5	< 0.001
Boron	0.5		0.22
Cadmium	0.01	0.05	< 0.0002
Chromium	0.1	1	0.002
Cobalt	0.05	0.1	0.001
Copper	0.2	5	0.007
Iron	0.2	10	0.19
Lead	2	5	< 0.001
Lithium	2.5 [#]	2.5 [#]	0.01
Manganese	0.2	10	0.07
Mercury	0.002	0.002	< 0.0001
Molybdenum	0.01	0.05	0.001
Nickel	0.2	2	#N/A
Selenium	0.02	0.05	< 0.001
Silver			< 0.001
Thorium			< 0.002
Tin			0.002
Vanadium	0.1	0.5	0.003
Zinc	2	5	0.043

Physical Chemistry	LTV Limit *	STV Limit *	Median
pH			7.4
BOD5 (mg/L)			< 2
Suspended Solids (mg/L)			3.8
<i>E.coli</i> post disinfection (orgs/100mL)			< 1
Somatic Coliphage			< 1
Total Nitrogen (mg-N/L)	5	25-125	7.5
Nitrite (mg-N/L)			< 0.01
Nitrate (mg-N/L)			6.4
Total Phosphorous (mg-P/L)	0.05	0.8-12	2.5

Salinity Indicators	Median
Sodium (mg/L)	230
Potassium (mg/L)	24
Calcium (mg/L)	28
Magnesium (mg/L)	23
SAR	8
Chloride (mg-Cl/L)	390
TDS (mg/L)	1000
TDS Inorganic (mg/L)	800
TDS Organic (mg/L)	200
Electrical Conductivity	1500

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