

SRW Summary

Western Treatment Plant Recycled Water Quality

Metals analysis in mg/L	LTV Limit *	STV Limit *	Median
Aluminium	5	20	0.05
Antimony			< 0.001
Arsenic	0.1	2	0.001
Barium			0.012
Beryllium	0.1	0.5	< 0.001
Boron	0.5		0.17
Cadmium	0.01	0.05	< 0.0002
Chromium	0.1	1	< 0.001
Cobalt	0.05	0.1	< 0.001
Copper	0.2	5	0.004
Iron	0.2	10	< 0.1
Lead	2	5	< 0.001
Lithium	2.5 [#]	2.5 [#]	0.01
Manganese	0.2	10	0.03
Mercury	0.002	0.002	< 0.0001
Molybdenum	0.01	0.05	0.002
Nickel	0.2	2	#N/A
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	0.025

Physical Chemistry	LTV Limit *	STV Limit *	Median
pH			7.8
BOD5 (mg/L)			< 2
Suspended Solids (mg/L)			< 2
<i>E.coli</i> post disinfection (orgs/100mL)			< 1
Somatic Coliphage			< 1
Total Nitrogen (mg-N/L)	5	25-125	7
Nitrite (mg-N/L)			< 0.01
Nitrate (mg-N/L)			5.3
Total Phosphorous (mg-P/L)	0.05	0.8-12	4.1

Salinity Indicators	Median
Sodium (mg/L)	210
Potassium (mg/L)	21
Calcium (mg/L)	25
Magnesium (mg/L)	23
SAR	7.2
Chloride (mg-Cl/L)	390
TDS (mg/L)	950
TDS Inorganic (mg/L)	720
TDS Organic (mg/L)	230
Electrical Conductivity	1600

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