

SRW Summary

Western Treatment Plant Recycled Water Quality

Jul-18

Metals analysis in mg/L	LTV Limit *	STV Limit *	Median
Aluminium	5	20	0.02
Antimony			0.001
Arsenic	0.1	2	0.001
Barium			0.008
Beryllium	0.1	0.5	0.0005
Boron	0.5		0.16
Cadmium	0.01	0.05	0.0001
Chromium	0.1	1	0.001
Cobalt	0.05	0.1	0.001
Copper	0.2	5	0.004
Iron	0.2	10	0.14
Lead	2	5	0.0005
Lithium	2.5 [#]	2.5 [#]	0.01
Manganese	0.2	10	0.032
Mercury	0.002	0.002	0.00005
Molybdenum	0.01	0.05	0.001
Nickel	0.2	2	#N/A
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	0.028

* 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

Physical Chemistry	LTV Limit *	STV Limit *	Median
pH			7.5
BOD5 (mg/L)			1
Suspended Solids (mg/L)			7.5
<i>E.coli</i> post disinfection (orgs/100mL)			0
Somatic Coliphage			0.5
Total Nitrogen (mg-N/L)	5	25-125	12
Nitrite (mg-N/L)			0.0125
Nitrate (mg-N/L)			11
Total Phosphorous (mg-P/L)	0.05	0.8-12	7.3

Salinity Indicators	Median
Sodium (mg/L)	240
Potassium (mg/L)	30
Calcium (mg/L)	28
Magnesium (mg/L)	24
SAR	8.2
Chloride (mg-Cl/L)	410
TDS (mg/L)	900
TDS Inorganic (mg/L)	760
TDS Organic (mg/L)	140
Electrical Conductivity	1600

Aesthetic Indicator	Median
Colour (Pt/co units)	16