

## Western Treatment Plant Recycled Water Quality for November 2011 – Post disinfection

Metals analysis in mg/L	LTV limit *	STV limit *	Median
Aluminium	5	20	0.15
Antimony			0.002
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	< 0.001
Cobalt	0.05	0.1	0.001
Copper	0.2	5	0.007
Iron	0.2	10	0.09
Lead	2	5	< 0.001
Lithium #	2.5	2.5	< 0.02
Manganese	0.2	10	0.032
Mercury	0.002	0.002	< 0.0001
Molybdenum	0.01	0.05	0.002
Nickel	0.2	2	0.008
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	0.028

Physical chemistry	LTV limit *	STV limit *	Median
pH			7.6
BOD5 mg/L			< 2
Suspended solids mg/L			4
E.coli post disinfection orgs/100mL			0
Total Nitrogen mg-N/L	5	25-125	9.6
as Nitrite mg-N/L			0.01
as Nitrate mg-N/L			8.2
Total Phosphorous mg-P/L	0.05	0.8-12	7.3
<b>Salinity indicators</b>			
sodium mg/L			270
potassium mg/L			27
calcium mg/L			33
magnesium mg/L			25
SAR			8.7
chloride mg-Cl/L			370
TDS mg/L			960
TDS (inorganic) mg/L			860
TDS (organic) mg/L			100
Electrical Conductivity			1800
<b>Aesthetic indicator</b>			
colour Pt/co units			Median 4

\* ARMICANZ / ANZECC Long Term trigger Value (up to 100 years)

\* ARMICANZ / ANZECC Short Term trigger Value (up to 20 years)

# Lithium STV & LTV for citrus crops is 0.075 mg/l