

Western Treatment Plant Recycled Water Quality for August 2011 – Post disinfection

| 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 | | | 0.005 |
| Beryllium | 0.1 | 0.5 | < 0.001 |
| Boron | 0.5 | | 0.18 |
| Cadmium | 0.01 | 0.05 | < 0.0002 |
| Chromium | 0.1 | 1 | < 0.001 |
| Cobalt | 0.05 | 0.1 | < 0.001 |
| Copper | 0.2 | 5 | 0.006 |
| Iron | 0.2 | 10 | 0.03 |
| Lead | 2 | 5 | < 0.001 |
| Lithium # | 2.5 | 2.5 | < 0.02 |
| Manganese | 0.2 | 10 | 0.015 |
| Mercury | 0.002 | 0.002 | < 0.0001 |
| Molybdenum | 0.01 | 0.05 | 0.002 |
| Nickel | 0.2 | 2 | 0.007 |
| 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 | 0.04 |

| Physical chemistry | LTV limit * | STV limit * | Median |
|-------------------------------------|-------------|-------------|--------|
| pH | | | 7.7 |
| BOD5 mg/L | | | < 2 |
| Suspended solids mg/L | | | < 2 |
| E.coli post disinfection orgs/100mL | | | 0 |
| Total Nitrogen mg-N/L | 5 | 25-125 | 11 |
| as Nitrite mg-N/L | | | 0.01 |
| as Nitrate mg-N/L | | | 9.7 |
| Total Phosphorous mg-P/L | 0.05 | 0.8-12 | 7.6 |

| Salinity indicators | Median |
|-------------------------|--------|
| sodium mg/L | 260 |
| potassium mg/L | 27 |
| calcium mg/L | 35 |
| magnesium mg/L | 27 |
| SAR | 8.3 |
| chloride mg-Cl/L | 390 |
| TDS mg/L | 990 |
| TDS (inorganic) mg/L | 870 |
| TDS (organic) mg/L | 120 |
| Electrical Conductivity | 1800 |

| 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