

**WATER ANALYSIS - CHEMICAL AND MICROBIOLOGICAL  
GUIDELINES FOR DRINKING, DOMESTIC USE, IRRIGATION AND LIVESTOCK**

<b>Parameter</b>	<b>Method Reference</b>	<b>#Guideline Drinking</b>	<b>#Guideline Irrigation (Long term 100yrs)</b>	<b>#Guideline Livestock</b>
pH	APHA 4500-H*	*6.5 - 8.5	6-9.0	--
Conductivity (dS/m)	APHA 2510	<0.8	<0.8	<4.8
Total Dissolved Solids (mg/L)	By Calculation	*<600	<500	<3000
Turbidity (NTU)	APHA 2130	*<5	--	--
Hardness (mg/L) (total as CaCO <sub>3</sub> )	APHA 2340	*<200	--	--
Alkalinity (mg/L) (total as CaCO <sub>3</sub> )	APHA 2320	--	--	--
Cadmium (mg/L)	APHA 3120 ICPMS	<0.002	<0.01	<0.01
Copper (mg/L)	APHA 3120 ICPMS	<2.0	<0.2	<0.4
Iron (mg/L)	APHA 3120 ICPMS	*<0.3	<0.2	--
Lead (mg/L)	APHA 3120 ICPMS	<0.01	<2	<0.1
Manganese (mg/L)	APHA 3120 ICPMS	*<0.1	<0.2	--
Zinc (mg/L)	APHA 3120 ICPMS	*<3	<2	<20
Arsenic (mg/L)	APHA 3120 ICPMS	<0.01	<0.1	<0.5
Nickel (mg/L)	APHA 3120 ICPMS	<0.1	<0.2	<1
Aluminium (mg/L)	APHA 3120 ICPMS	*<0.2	<5	<5
Boron (mg/L)	APHA 3120 ICPOES	<4	<0.5	--
Nitrate (mg/L N)	APHA 4500 NO <sub>3</sub> -F	<10	--	<400
Nitrite (mg/L N)	APHA 4500 NO <sub>2</sub> -C	<1	--	<30
Ammonia (mg/L N)	APHA 4500 NH <sub>3</sub> -H	*<0.5	--	--
Phosphate (mg/L P)	APHA 4500 P-G	--	<0.05	--
Sodium (mg/L)	APHA 3120 ICPOES	<180	<350-750	--
Potassium (mg/L)	APHA 3120 ICPOES	--	--	--
Calcium (mg/L)	APHA 3120 ICPOES	--	--	<1000
Magnesium (mg/L)	APHA 3120 ICPOES	--	--	<2000
Sodium Adsorption Ratio	By Calculation	--	<5.0	--
Chloride (mg/L)	APHA 4500 Cl <sup>-</sup>	*<250	<30-700	--
Sulphate (mg/L)	APHA 3120 ICPOES	<500	250	<1000
Total Coliforms (cfu per 100ml)	APHA 9222-C	<i>Site Specific</i>	--	--
Faecal Coliforms (cfu per 100ml)	APHA 9222-E	0 (<1)	<100	<100

1 mg/L (milligram per litre) = 1 ppm (part per million); 1 dS/m = 1 mS/cm = 1000 µS/cm; cfu = colony forming units

\* Recommended level not directly health related but relates to the aesthetic quality of the water.

# ANZECC Guidelines for Fresh and Marine Water Quality-Vol 1 – The Guidelines, October 2000.

NHMRC, Australian Drinking Water Guidelines 6, 2012