

	Analyte measures above ANZECC guidelines
	Analyte measures above livestock water guidelines
	Analyte measures above both ANZECC and Livestock water guidelines

Assumptions

Assume that all guidelines are in mg/L unless otherwise states

* ANZECC low reliability TV

EC value has been chosen in accordance with the Guidelines under the assumption that large livestock will be present and not poultry

Copper value chosen for Cattle as this is the most common livestock to be found in the Pilbara

Nitrate value has been chosen in accordance with the Guidelines under the assumption that stock are not receiving any nitrate input via consumption of their feed

ND = not determined, insufficient background data to calculate

	ANZECC 95%	Livestock drinking guidelines	MB15MEC001	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	2	0.01
Antimony	*0.009	-	2	0.001
Arsenic	0.013	5	2	0.001
Boron	0.37	5	2	1.885
Cadmium	0.0002	0.01	2	0.0001
Chromium total	0.001	1	2	0.001
Cobalt	*0.014	1	2	0.001
Copper	0.0014	1	2	0.001
EC lab (µS/cm)	900	4000 mg/L	2	5410
Iron	*0.3	not sufficiently toxic	2	0.05
Lead	0.0034	0.1	2	0.001
Manganese	1.9	not sufficiently toxic	2	0.01
Mercury	0.00006	0.002	2	0.0001
Molybdenum	0.034	0.15	2	0.001
Nickel	0.011	2	-	-
N ammonia (NH3-N)	0.9	-	-	-
N nitrate (NO3-N)	0.03	<1500 mg/L	2	0.35
N NOx nitrogen (NOx-N)	0.03	-	2	0.35
Nitrogen total	0.3	-	-	-
pH (pH units)	6 - 8	-	2	7.59
Phosphate (FRP, P-SR)	0.005	-	2	0.02
Phosphorus total	0.01	-	2	0.06
Selenium	0.005	0.02	2	0.01
Tin	*0.003	-	2	0.001
Total Dissolved Solids (TDS)	-	4000	2	3445
Vanadium	*0.006	ND	2	0.01
Zinc	0.008	20	2	0.018

	ANZECC 95%	Livestock drinking guidelines	MB15MEC004	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	2	0.01
Antimony	*0.009	-	2	0.001
Arsenic	0.013	5	2	0.001
Boron	0.37	5	2	1.23
Cadmium	0.0002	0.01	2	0.0001
Chromium total	0.001	1	2	0.001
Cobalt	*0.014	1	2	0.001
Copper	0.0014	1	2	0.001
EC lab (µS/cm)	900	4000 mg/L	2	3340
Iron	*0.3	not sufficiently toxic	2	0.05
Lead	0.0034	0.1	2	0.001
Manganese	1.9	not sufficiently toxic	2	0.01
Mercury	0.00006	0.002	2	0.0001
Molybdenum	0.034	0.15	-	-
Nickel	0.011	2	2	0.001
N ammonia (NH3-N)	0.9	-	-	-
N nitrate (NO3-N)	0.03	<1500 mg/L	2	1.58
N NOx nitrogen (NOx-N)	0.03	-	2	1.58
Nitrogen total	0.3	-	-	-
pH (pH units)	6 - 8	-	2	7.86
Phosphate (FRP, P-SR)	0.005	-	2	0.04
Phosphorus total	0.01	-	2	0.035
Selenium	0.005	0.02	2	0.01
Tin	*0.003	-	2	0.001
Total Dissolved Solids (TDS)	-	4000	2	2020
Vanadium	*0.006	ND	2	0.01
Zinc	0.008	20	2	0.01

	ANZECC 95%	Livestock drinking guidelines	MB16MEC0001	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	1	0.01
Antimony	*0.009	-	-	-
Arsenic	0.013	5	1	0.0005
Boron	0.37	5	1	1.4
Cadmium	0.0002	0.01	1	0.0002
Chromium total	0.001	1	1	0.0005
Cobalt	*0.014	1	1	0.0002
Copper	0.0014	1	-	-
EC lab (µS/cm)	900	4000 mg/L	-	-
Iron	*0.3	not sufficiently toxic	1	0.005
Lead	0.0034	0.1	1	0.0002
Manganese	1.9	not sufficiently toxic	1	0.44
Mercury	0.00006	0.002	1	0.00004
Molybdenum	0.034	0.15	1	-
Nickel	0.011	2	1	0.0005
N ammonia (NH3-N)	0.9	-	1	0.03
N nitrate (NO3-N)	0.03	<1500 mg/L	1	3.61
N NOx nitrogen (NOx-N)	0.03	-	1	3.69
Nitrogen total	0.3	-	1	4.5
pH (pH units)	6 - 8	-	-	-
Phosphate (FRP, P-SR)	0.005	-	-	-
Phosphorus total	0.01	-	1	0.02
Selenium	0.005	0.02	1	0.002
Tin	*0.003	-	-	-
Total Dissolved Solids (TDS)	-	4000	-	-
Vanadium	*0.006	ND	-	-
Zinc	0.008	20	1	0.03

	ANZECC 95%	Livestock drinking guidelines	MB16MEC0002	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	3	0.01
Antimony	*0.009	-	2	0.001
Arsenic	0.013	5	3	0.001
Boron	0.37	5	3	1.97
Cadmium	0.0002	0.01	3	0.0001
Chromium total	0.001	1	3	0.001
Cobalt	*0.014	1	2	0.001
Copper	0.0014	1	2	0.001
EC lab (µS/cm)	900	4000 mg/L	2	5850
Iron	*0.3	not sufficiently toxic	3	0.05
Lead	0.0034	0.1	3	0.001
Manganese	1.9	not sufficiently toxic	3	0.054
Mercury	0.00006	0.002	3	0.0001
Molybdenum	0.034	0.15	3	0.001
Nickel	0.011	2	-	-
N ammonia (NH3-N)	0.9	-	1	0.17
N nitrate (NO3-N)	0.03	<1500 mg/L	2	1.52
N NOx nitrogen (NOx-N)	0.03	-	2	1.535
Nitrogen total	0.3	-	1	1.2
pH (pH units)	6 - 8	-	2	7.67
Phosphate (FRP, P-SR)	0.005	-	1	0.01
Phosphorus total	0.01	-	3	0.02
Selenium	0.005	0.02	2	0.01
Tin	*0.003	-	2	0.001
Total Dissolved Solids (TDS)	-	4000	2	3575
Vanadium	*0.006	ND	2	0.01
Zinc	0.008	20	3	0.005

	ANZECC 95%	Livestock drinking guidelines	MB16MEC0003	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	2	0.038
Antimony	*0.009	-	1	0.001
Arsenic	0.013	5	2	0.00075
Boron	0.37	5	2	2.25
Cadmium	0.0002	0.01	2	0.00015
Chromium total	0.001	1	2	0.00075
Cobalt	*0.014	1	1	0.001
Copper	0.0014	1	1	0.001
EC lab (µS/cm)	900	4000 mg/L	1	5170
Iron	*0.3	not sufficiently toxic	2	0.0385
Lead	0.0034	0.1	2	0.0006
Manganese	1.9	not sufficiently toxic	2	0.0285
Mercury	0.00006	0.002	2	0.00007
Molybdenum	0.034	0.15	1	0.001
Nickel	0.011	2	1	0.0005
N ammonia (NH3-N)	0.9	-	1	0.08
N nitrate (NO3-N)	0.03	<1500 mg/L	1	0.02
N NOx nitrogen (NOx-N)	0.03	-	1	0.02
Nitrogen total	0.3	-	1	0.4
pH (pH units)	6 - 8	-	1	7.84
Phosphate (FRP, P-SR)	0.005	-	-	-
Phosphorus total	0.01	-	2	0.04
Selenium	0.005	0.02	2	0.006
Tin	*0.003	-	1	0.001
Total Dissolved Solids (TDS)	-	4000	1	3070
Vanadium	*0.006	ND	1	0.01
Zinc	0.008	20	2	0.005

	ANZECC 95%	Livestock drinking guidelines	MB16MEC0004	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	3	0.01
Antimony	*0.009	-	1	0.001
Arsenic	0.013	5	3	0.001
Boron	0.37	5	3	1.89
Cadmium	0.0002	0.01	3	0.0001
Chromium total	0.001	1	3	0.001
Cobalt	*0.014	1	2	0.001
Copper	0.0014	1	2	0.001
EC lab (µS/cm)	900	4000 mg/L	2	4495
Iron	*0.3	not sufficiently toxic	3	0.05
Lead	0.0034	0.1	3	0.001
Manganese	1.9	not sufficiently toxic	2	0.102
Mercury	0.00006	0.002	3	0.0001
Molybdenum	0.034	0.15	-	-
Nickel	0.011	2	1	0.0005
N ammonia (NH3-N)	0.9	-	1	0.11
N nitrate (NO3-N)	0.03	<1500 mg/L	2	1.355
N NOx nitrogen (NOx-N)	0.03	-	2	1.375
Nitrogen total	0.3	-	1	2
pH (pH units)	6 - 8	-	2	7.745
Phosphate (FRP, P-SR)	0.005	-	1	0.02
Phosphorus total	0.01	-	3	0.02
Selenium	0.005	0.02	3	0.01
Tin	*0.003	-	2	0.001
Total Dissolved Solids (TDS)	-	4000	2	2780
Vanadium	*0.006	ND	2	0.01
Zinc	0.008	20		0.013

	ANZECC 95%	Livestock drinking guidelines	MB16MEC0005	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	3	0.01
Antimony	*0.009	-	2	0.001
Arsenic	0.013	5	3	0.001
Boron	0.37	5	3	1.1
Cadmium	0.0002	0.01	3	0.0001
Chromium total	0.001	1	-	-
Cobalt	*0.014	1	3	0.001
Copper	0.0014	1	2	0.001
EC lab (µS/cm)	900	4000 mg/L	2	3660
Iron	*0.3	not sufficiently toxic	3	0.05
Lead	0.0034	0.1	3	0.001
Manganese	1.9	not sufficiently toxic	2	0.02
Mercury	0.00006	0.002	3	0.0001
Molybdenum	0.034	0.15	2	0.001
Nickel	0.011	2	-	-
N ammonia (NH3-N)	0.9	-	1	0.02
N nitrate (NO3-N)	0.03	<1500 mg/L	2	13.05
N NOx nitrogen (NOx-N)	0.03	-	2	13.05
Nitrogen total	0.3	-	1	15.1
pH (pH units)	6 - 8	-	2	7.465
Phosphate (FRP, P-SR)	0.005	-	1	0.02
Phosphorus total	0.01	-	3	0.04
Selenium	0.005	0.02	2	0.01
Tin	*0.003	-	2	0.001
Total Dissolved Solids (TDS)	-	4000	2	2370
Vanadium	*0.006	ND	2	0.01
Zinc	0.008	20	3	0.03

	ANZECC 95%	Livestock drinking guidelines	MB16MEC0006	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	3	0.02
Antimony	*0.009	-	1	0.01
Arsenic	0.013	5	3	0.001
Boron	0.37	5	3	0.74
Cadmium	0.0002	0.01	3	0.0001
Chromium total	0.001	1	2	0.001
Cobalt	*0.014	1	3	0.001
Copper	0.0014	1	-	-
EC lab (µS/cm)	900	4000 mg/L	2	4845
Iron	*0.3	not sufficiently toxic	3	0.05
Lead	0.0034	0.1	3	0.001
Manganese	1.9	not sufficiently toxic	3	0.017
Mercury	0.00006	0.002	2	0.0001
Molybdenum	0.034	0.15	2	0.001
Nickel	0.011	2	1	0.01
N ammonia (NH3-N)	0.9	-	1	0.28
N nitrate (NO3-N)	0.03	<1500 mg/L	2	93.1
N NOx nitrogen (NOx-N)	0.03	-	2	93.7
Nitrogen total	0.3	-	1	115
pH (pH units)	6 - 8	-	2	7.62
Phosphate (FRP, P-SR)	0.005	-	1	0.01
Phosphorus total	0.01	-	3	0.01
Selenium	0.005	0.02	3	0.01
Tin	*0.003	-	2	0.001
Total Dissolved Solids (TDS)	-	4000	2	3485
Vanadium	*0.006	ND	2	0.01
Zinc	0.008	20	3	0.186

	ANZECC 95%	Livestock drinking guidelines	MB16MEC0007	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	1	0.005
Antimony	*0.009	-	-	-
Arsenic	0.013	5	1	0.0005
Boron	0.37	5	1	2.13
Cadmium	0.0002	0.01	1	0.0002
Chromium total	0.001	1	1	0.0005
Cobalt	*0.014	1	1	0.0002
Copper	0.0014	1	-	-
EC lab (µS/cm)	900	4000 mg/L	-	-
Iron	*0.3	not sufficiently toxic	1	0.005
Lead	0.0034	0.1	1	0.0002
Manganese	1.9	not sufficiently toxic	1	0.01
Mercury	0.00006	0.002	1	0.00004
Molybdenum	0.034	0.15	-	-
Nickel	0.011	2	1	0.0005
N ammonia (NH3-N)	0.9	-	1	0.02
N nitrate (NO3-N)	0.03	<1500 mg/L	1	4.46
N NOx nitrogen (NOx-N)	0.03	-	1	4.46
Nitrogen total	0.3	-	1	5.3
pH (pH units)	6 - 8	-	-	-
Phosphate (FRP, P-SR)	0.005	-	-	-
Phosphorus total	0.01	-	1	0.01
Selenium	0.005	0.02	-	-
Tin	*0.003	-	-	-
Total Dissolved Solids (TDS)	-	4000	-	-
Vanadium	*0.006	ND	1	0.0005
Zinc	0.008	20	1	0.01

	ANZECC 95%	Livestock drinking guidelines	MB16MEC0008	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	2	0.01
Antimony	*0.009	-	1	0.001
Arsenic	0.013	5	1	0.001
Boron	0.37	5	2	1.22
Cadmium	0.0002	0.01	2	0.00015
Chromium total	0.001	1	2	0.00075
Cobalt	*0.014	1	2	0.0006
Copper	0.0014	1	1	0.001
EC lab (µS/cm)	900	4000 mg/L	1	3090
Iron	*0.3	not sufficiently toxic	2	0.0275
Lead	0.0034	0.1	2	0.0006
Manganese	1.9	not sufficiently toxic	2	0.01
Mercury	0.00006	0.002	2	0.00007
Molybdenum	0.034	0.15	-	-
Nickel	0.011	2	2	0.00075
N ammonia (NH3-N)	0.9	-	1	0.01
N nitrate (NO3-N)	0.03	<1500 mg/L	1	1.68
N NOx nitrogen (NOx-N)	0.03	-	1	1.68
Nitrogen total	0.3	-	1	1.9
pH (pH units)	6 - 8	-	1	7.92
Phosphate (FRP, P-SR)	0.005	-		
Phosphorus total	0.01	-	2	0.035
Selenium	0.005	0.02	1	0.01
Tin	*0.003	-	1	0.001
Total Dissolved Solids (TDS)	-	4000	2	1865
Vanadium	*0.006	ND	2	0.01
Zinc	0.008	20	2	0.01

	ANZECC 95%	Livestock drinking guidelines	MB16MEC0009	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	2	0.01
Antimony	*0.009	-	1	0.001
Arsenic	0.013	5	-	-
Boron	0.37	5	2	0.7515
Cadmium	0.0002	0.01	2	0.00015
Chromium total	0.001	1	2	0.00075
Cobalt	*0.014	1	1	0.001
Copper	0.0014	1	1	0.001
EC lab (µS/cm)	900	4000 mg/L	1	2350
Iron	*0.3	not sufficiently toxic	2	0.0275
Lead	0.0034	0.1	2	0.0006
Manganese	1.9	not sufficiently toxic	1	0.01
Mercury	0.00006	0.002	2	0.00007
Molybdenum	0.034	0.15	-	-
Nickel	0.011	2	2	0.00075
N ammonia (NH3-N)	0.9	-	1	0.09
N nitrate (NO3-N)	0.03	<1500 mg/L	1	1.98
N NOx nitrogen (NOx-N)	0.03	-	1	2
Nitrogen total	0.3	-	1	3
pH (pH units)	6 - 8	-	1	7.97
Phosphate (FRP, P-SR)	0.005	-	-	-
Phosphorus total	0.01	-	1	0.19
Selenium	0.005	0.02	2	0.006
Tin	*0.003	-	1	0.001
Total Dissolved Solids (TDS)	-	4000	2	1370
Vanadium	*0.006	ND	2	0.01
Zinc	0.008	20	2	0.01

	ANZECC 95%	Livestock drinking guidelines	MB17MEC0001	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	1	0.01
Antimony	*0.009	-	1	0.001
Arsenic	0.013	5	1	0.001
Boron	0.37	5	1	2.6
Cadmium	0.0002	0.01	1	0.0001
Chromium total	0.001	1	1	0.001
Cobalt	*0.014	1	-	-
Copper	0.0014	1	1	0.04
EC lab (µS/cm)	900	4000 mg/L	1	6710
Iron	*0.3	not sufficiently toxic	1	0.05
Lead	0.0034	0.1	-	-
Manganese	1.9	not sufficiently toxic	1	0.08
Mercury	0.00006	0.002	1	0.0001
Molybdenum	0.034	0.15	-	-
Nickel	0.011	2	-	-
N ammonia (NH3-N)	0.9	-	-	-
N nitrate (NO3-N)	0.03	<1500 mg/L	1	1.24
N NOx nitrogen (NOx-N)	0.03	-	1	1.25
Nitrogen total	0.3	-	-	-
pH (pH units)	6 - 8	-	1	8.36
Phosphate (FRP, P-SR)	0.005	-	1	0.01
Phosphorus total	0.01	-	1	0.07
Selenium	0.005	0.02	1	0.01
Tin	*0.003	-	1	0.001
Total Dissolved Solids (TDS)	-	4000	1	4180
Vanadium	*0.006	ND	1	0.01
Zinc	0.008	20		0.03

	ANZECC 95%	Livestock drinking guidelines	MB17MEC0003	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	1	0.01
Antimony	*0.009	-	1	0.001
Arsenic	0.013	5	1	0.001
Boron	0.37	5	1	1.13
Cadmium	0.0002	0.01	1	0.0001
Chromium total	0.001	1	-	-
Cobalt	*0.014	1	1	0.01
Copper	0.0014	1	1	0.02
EC lab (μ S/cm)	900	4000 mg/L	1	2830
Iron	*0.3	not sufficiently toxic	1	0.13
Lead	0.0034	0.1	1	0.01
Manganese	1.9	not sufficiently toxic	1	0.26
Mercury	0.00006	0.002	1	0.0001
Molybdenum	0.034	0.15	-	-
Nickel	0.011	2	1	0.01
N ammonia (NH ₃ -N)	0.9	-	-	-
N nitrate (NO ₃ -N)	0.03	<1500 mg/L	1	1.04
N NO _x nitrogen (NO _x -N)	0.03	-	1	1.07
Nitrogen total	0.3	-	-	-
pH (pH units)	6 - 8	-	1	8.59
Phosphate (FRP, P-SR)	0.005	-	1	0.01
Phosphorus total	0.01	-	1	0.52
Selenium	0.005	0.02	1	0.01
Tin	*0.003	-	-	-
Total Dissolved Solids (TDS)	-	4000	1	1820
Vanadium	*0.006	ND	1	0.01
Zinc	0.008	20	1	0.13

	ANZECC 95%	Livestock drinking guidelines	MB17MEC0004	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	1	0.01
Antimony	*0.009	-	1	0.001
Arsenic	0.013	5	1	0.001
Boron	0.37	5	1	1.26
Cadmium	0.0002	0.01	1	0.0001
Chromium total	0.001	1	-	-
Cobalt	*0.014	1	-	-
Copper	0.0014	1	1	0.01
EC lab (µS/cm)	900	4000 mg/L	1	3170
Iron	*0.3	not sufficiently toxic	1	0.05
Lead	0.0034	0.1	-	-
Manganese	1.9	not sufficiently toxic	1	0.03
Mercury	0.00006	0.002	1	0.0001
Molybdenum	0.034	0.15	-	-
Nickel	0.011	2	1	0.01
N ammonia (NH3-N)	0.9	-	-	-
N nitrate (NO3-N)	0.03	<1500 mg/L	1	1.13
N NOx nitrogen (NOx-N)	0.03	-	1	1.14
Nitrogen total	0.3	-	-	-
pH (pH units)	6 - 8	-	1	8.56
Phosphate (FRP, P-SR)	0.005	-	1	0.03
Phosphorus total	0.01	-	1	0.49
Selenium	0.005	0.02	1	0.01
Tin	*0.003	-	1	0.001
Total Dissolved Solids (TDS)	-	4000	1	1900
Vanadium	*0.006	ND	1	0.01
Zinc	0.008	20	1	0.06




	ANZECC 95%	Livestock drinking guidelines	MB17MEC0005	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	1	0.01
Antimony	*0.009	-	1	0.001
Arsenic	0.013	5	1	0.001
Boron	0.37	5	1	1.03
Cadmium	0.0002	0.01	1	0.0001
Chromium total	0.001	1	1	0.001
Cobalt	*0.014	1	1	0.001
Copper	0.0014	1	1	0.001
EC lab (µS/cm)	900	4000 mg/L	1	2930
Iron	*0.3	not sufficiently toxic	1	0.05
Lead	0.0034	0.1	1	0.001
Manganese	1.9	not sufficiently toxic	1	0.15
Mercury	0.00006	0.002	1	0.0001
Molybdenum	0.034	0.15	-	-
Nickel	0.011	2	1	0.001
N ammonia (NH3-N)	0.9	-	-	-
N nitrate (NO3-N)	0.03	<1500 mg/L	1	1.04
N NOx nitrogen (NOx-N)	0.03	-	1	1.04
Nitrogen total	0.3	-	-	-
pH (pH units)	6 - 8	-	1	8.42
Phosphate (FRP, P-SR)	0.005	-	1	0.04
Phosphorus total	0.01	-	1	0.06
Selenium	0.005	0.02	1	0.01
Tin	*0.003	-	1	0.001
Total Dissolved Solids (TDS)	-	4000	1	1690
Vanadium	*0.006	ND	1	0.01
Zinc	0.008	20	1	0.01

	ANZECC 95%	Livestock drinking guidelines	MB17MEC0006	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	1	0.01
Antimony	*0.009	-	-	-
Arsenic	0.013	5	1	0.001
Boron	0.37	5	1	1.12
Cadmium	0.0002	0.01	1	0.0001
Chromium total	0.001	1	1	0.001
Cobalt	*0.014	1	1	0.001
Copper	0.0014	1	1	0.001
EC lab (μ S/cm)	900	4000 mg/L	1	2960
Iron	*0.3	not sufficiently toxic	1	0.05
Lead	0.0034	0.1	1	0.001
Manganese	1.9	not sufficiently toxic	1	0.01
Mercury	0.00006	0.002	1	0.0001
Molybdenum	0.034	0.15	-	-
Nickel	0.011	2	1	0.001
N ammonia (NH ₃ -N)	0.9	-	-	-
N nitrate (NO ₃ -N)	0.03	<1500 mg/L	1	0.62
N NO _x nitrogen (NO _x -N)	0.03	-	1	0.62
Nitrogen total	0.3	-	-	-
pH (pH units)	6 - 8	-	1	8.46
Phosphate (FRP, P-SR)	0.005	-	1	0.01
Phosphorus total	0.01	-	1	0.1
Selenium	0.005	0.02	1	0.01
Tin	*0.003	-	1	0.001
Total Dissolved Solids (TDS)	-	4000	1	1700
Vanadium	*0.006	ND	1	0.01
Zinc	0.008	20	1	0.005

	ANZECC 95%	Livestock drinking guidelines	WB16MEC0001	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	4	0.0075
Antimony	*0.009	-	2	0.001
Arsenic	0.013	5	4	0.00075
Boron	0.37	5	4	1.86
Cadmium	0.0002	0.01	4	0.00015
Chromium total	0.001	1	4	0.00075
Cobalt	*0.014	1	2	0.001
Copper	0.0014	1	2	0.001
EC lab (µS/cm)	900	4000 mg/L	2	4960
Iron	*0.3	not sufficiently toxic	4	1.674
Lead	0.0034	0.1	4	0.0006
Manganese	1.9	not sufficiently toxic	4	0.1565
Mercury	0.00006	0.002	4	0.00007
Molybdenum	0.034	0.15	2	0.001
Nickel	0.011	2	3	0.001
N ammonia (NH3-N)	0.9	-	2	0.03
N nitrate (NO3-N)	0.03	<1500 mg/L	3	0.13
N NOx nitrogen (NOx-N)	0.03	-	3	0.17
Nitrogen total	0.3	-	2	1.2
pH (pH units)	6 - 8	-	2	7.66
Phosphate (FRP, P-SR)	0.005	-	1	0.01
Phosphorus total	0.01	-	4	0.015
Selenium	0.005	0.02	3	0.01
Tin	*0.003	-	2	0.001
Total Dissolved Solids (TDS)	-	4000	3	3650
Vanadium	*0.006	ND	4	0.00525
Zinc	0.008	20	4	0.007

	ANZECC 95%	Livestock drinking guidelines	WB16MEC0002	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	4	0.0075
Antimony	*0.009	-	2	0.001
Arsenic	0.013	5	4	0.00075
Boron	0.37	5	4	2.23
Cadmium	0.0002	0.01	4	0.00015
Chromium total	0.001	1	4	0.00075
Cobalt	*0.014	1	3	0.001
Copper	0.0014	1	2	0.001
EC lab (µS/cm)	900	4000 mg/L	2	5425
Iron	*0.3	not sufficiently toxic	4	0.201
Lead	0.0034	0.1	4	0.0006
Manganese	1.9	not sufficiently toxic	4	0.2835
Mercury	0.00006	0.002	4	0.00007
Molybdenum	0.034	0.15	1	0.001
Nickel	0.011	2	3	0.001
N ammonia (NH3-N)	0.9	-	2	0.105
N nitrate (NO3-N)	0.03	<1500 mg/L	3	0.3
N NOx nitrogen (NOx-N)	0.03	-	3	0.31
Nitrogen total	0.3	-	2	1
pH (pH units)	6 - 8	-	2	7.83
Phosphate (FRP, P-SR)	0.005	-	2	0.01
Phosphorus total	0.01	-	4	0.01
Selenium	0.005	0.02	3	0.01
Tin	*0.003	-	2	0.001
Total Dissolved Solids (TDS)	-	4000	3	3460
Vanadium	*0.006	ND	3	0.01
Zinc	0.008	20	4	0.007

	ANZECC 95%	Livestock drinking guidelines	WB17MEC0001	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	1	0.02
Antimony	*0.009	-	1	0.001
Arsenic	0.013	5	1	0.001
Boron	0.37	5	1	1.09
Cadmium	0.0002	0.01	1	0.0001
Chromium total	0.001	1	1	0.001
Cobalt	*0.014	1	1	0.001
Copper	0.0014	1	1	0.001
EC lab (µS/cm)	900	4000 mg/L	1	2900
Iron	*0.3	not sufficiently toxic	1	0.05
Lead	0.0034	0.1	1	0.001
Manganese	1.9	not sufficiently toxic	1	0.03
Mercury	0.00006	0.002	1	0.0001
Molybdenum	0.034	0.15	-	-
Nickel	0.011	2	1	0.001
N ammonia (NH3-N)	0.9	-	-	-
N nitrate (NO3-N)	0.03	<1500 mg/L	1	1.16
N NOx nitrogen (NOx-N)	0.03	-	1	1.18
Nitrogen total	0.3	-	-	-
pH (pH units)	6 - 8	-	1	8.46
Phosphate (FRP, P-SR)	0.005	-	1	0.01
Phosphorus total	0.01	-	1	0.16
Selenium	0.005	0.02	1	0.01
Tin	*0.003	-	1	0.001
Total Dissolved Solids (TDS)	-	4000	1	1690
Vanadium	*0.006	ND	1	0.01
Zinc	0.008	20	1	0.005

	Analyte measures above ANZECC guidelines
	Analyte measures above livestock water guidelines
	Analyte measures above both ANZECC and Livestock water guidelines

Assumptions

Assume that all guidelines are in mg/L unless otherwise states

* ANZECC low reliability TV

EC value has been chosen in accordance with the Guidelines under the assumption that large livestock will be present and not poultry

Copper value chosen as a minimum for Sheep, cattle can tolerate 1 mg/L, and pigs up to 5 mg/L

Nitrate value has been chosen in accordance with the Guidelines under the assumption that stock are not receiving any nitrate input via consumption of their feed

ND = not determined, insufficient background data to calculate

Where values were listed as <, a conservative approach was taken where the value was used in the median calculation as is, without the less-than sign (as opposed to choosing a lesser value)

	ANZECC 95%	Livestock drinking guidelines	MB08MEA004	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	1	0.0025
Antimony	*0.009	-	1	0.0005
Arsenic	0.013	5	1	0.0005
Boron	0.37	5	1	1
Cadmium	0.0002	0.01	1	0.00005
Chromium total	0.001	1	1	0.0005
Cobalt	*0.014	1	1	0.0005
Copper	0.0014	1	1	0.003
EC lab (µS/cm)	900	4000 mg/L	1	5700
Iron	*0.3	not sufficiently toxic	1	0.07
Lead	0.0034	0.1	1	0.0005
Manganese	1.9	not sufficiently toxic	1	0.006
Mercury	0.00006	0.002	1	0.000025
Molybdenum	0.034	0.15	1	0.0005
Nickel	0.011	2	1	0.001
N ammonia (NH3-N)	0.9	-	-	-
N nitrate (NO3-N)	0.03	<1500 mg/L	-	-
N NOx nitrogen (NOx-N)	0.03	-	-	-
Nitrogen total	0.3	-	-	-
pH (pH units)	6 - 8	-	1	7.7
Phosphate (FRP, P-SR)	0.005	-	-	-
Phosphorus total	0.01	-	-	-
Selenium	0.005	0.02	1	0.003
Tin	*0.003	-	1	0.0005
Total Dissolved Solids (TDS)	-	4000	1	3300
Vanadium	*0.006	ND	1	0.002
Zinc	0.008	20	1	0.02

	ANZECC 95%	Livestock drinking guidelines	MB13WARR001	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	1	0.11
Antimony	*0.009	-	1	0.0005
Arsenic	0.013	5	1	0.0005
Boron	0.37	5	1	0.58
Cadmium	0.0002	0.01	1	0.0001
Chromium total	0.001	1	1	0.0005
Cobalt	*0.014	1	1	0.002
Copper	0.0014	1	1	0.026
EC lab (µS/cm)	900	4000 mg/L	1	2000
Iron	*0.3	not sufficiently toxic	1	0.009
Lead	0.0034	0.1	1	0.009
Manganese	1.9	not sufficiently toxic	1	0.02
Mercury	0.00006	0.002	1	0.000025
Molybdenum	0.034	0.15	1	0.0005
Nickel	0.011	2	1	0.003
N ammonia (NH3-N)	0.9	-	-	-
N nitrate (NO3-N)	0.03	<1500 mg/L	1	2.8
N NOx nitrogen (NOx-N)	0.03	-	-	-
Nitrogen total	0.3	-	-	-
pH (pH units)	6 - 8	-	1	8
Phosphate (FRP, P-SR)	0.005	-	-	-
Phosphorus total	0.01	-	-	-
Selenium	0.005	0.02	1	0.002
Tin	*0.003	-	1	0.0005
Total Dissolved Solids (TDS)	-	4000	1	1200
Vanadium	*0.006	ND	1	0.001
Zinc	0.008	20	1	0.54

	ANZECC 95%	Livestock drinking guidelines	MB13WARR002	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	1	0.0025
Antimony	*0.009	-	1	0.0005
Arsenic	0.013	5	1	0.0005
Boron	0.37	5	1	0.61
Cadmium	0.0002	0.01	1	0.00005
Chromium total	0.001	1	1	0.0005
Cobalt	*0.014	1	1	0.0005
Copper	0.0014	1	1	0.004
EC lab (µS/cm)	900	4000 mg/L	1	2,223
Iron	*0.3	not sufficiently toxic	1	0.006
Lead	0.0034	0.1	1	0.0005
Manganese	1.9	not sufficiently toxic	1	0.008
Mercury	0.00006	0.002	1	0.000025
Molybdenum	0.034	0.15	1	0.0005
Nickel	0.011	2	1	0.002
N ammonia (NH3-N)	0.9	-	-	-
N nitrate (NO3-N)	0.03	<1500 mg/L	1	4.6
N NOx nitrogen (NOx-N)	0.03	-	-	-
Nitrogen total	0.3	-	-	-
pH (pH units)	6 - 8	-	1	6.71
Phosphate (FRP, P-SR)	0.005	-	-	-
Phosphorus total	0.01	-	-	-
Selenium	0.005	0.02	1	0.001
Tin	*0.003	-	1	0.0005
Total Dissolved Solids (TDS)	-	4000	-	1200
Vanadium	*0.006	ND	1	0.0005
Zinc	0.008	20	1	0.037

	ANZECC 95%	Livestock drinking guidelines	MB13WARR003	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	1	0.0025
Antimony	*0.009	-	1	0.0005
Arsenic	0.013	5	1	0.0005
Boron	0.37	5	1	0.6
Cadmium	0.0002	0.01	1	0.00005
Chromium total	0.001	1	1	0.0005
Cobalt	*0.014	1	1	0.002
Copper	0.0014	1	1	0.002
EC lab (µS/cm)	900	4000 mg/L	1	1900
Iron	*0.3	not sufficiently toxic	1	0.055
Lead	0.0034	0.1	1	0.0005
Manganese	1.9	not sufficiently toxic	1	0.11
Mercury	0.00006	0.002	1	0.000025
Molybdenum	0.034	0.15	1	0.0005
Nickel	0.011	2	1	0.002
N ammonia (NH3-N)	0.9	-	-	-
N nitrate (NO3-N)	0.03	<1500 mg/L	1	0.69
N NOx nitrogen (NOx-N)	0.03	-	-	-
Nitrogen total	0.3	-	-	-
pH (pH units)	6 - 8	-	1	7.6
Phosphate (FRP, P-SR)	0.005	-	-	-
Phosphorus total	0.01	-	-	-
Selenium	0.005	0.02	1	0.001
Tin	*0.003	-	1	0.0005
Total Dissolved Solids (TDS)	-	4000	1	1100
Vanadium	*0.006	ND	1	0.0005
Zinc	0.008	20	1	0.028

	ANZECC 95%	Livestock drinking guidelines	MB13WARR004	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	5	0.005
Antimony	*0.009	-	4	0.0005
Arsenic	0.013	5	5	0.0007
Boron	0.37	5	5	0.61
Cadmium	0.0002	0.01	5	0.00005
Chromium total	0.001	1	5	0.0005
Cobalt	*0.014	1	5	0.0005
Copper	0.0014	1	4	0.0005
EC lab (µS/cm)	900	4000 mg/L	4	2065
Iron	*0.3	not sufficiently toxic	5	0.05
Lead	0.0034	0.1	5	0.0005
Manganese	1.9	not sufficiently toxic	5	0.267
Mercury	0.00006	0.002	5	0.000025
Molybdenum	0.034	0.15	5	0.0005
Nickel	0.011	2	5	0.0013
N ammonia (NH3-N)	0.9	-	-	-
N nitrate (NO3-N)	0.03	<1500 mg/L	2	10.06
N NOx nitrogen (NOx-N)	0.03	-	3	0.01
Nitrogen total	0.3	-	1	0.05
pH (pH units)	6 - 8	-	4	7.55
Phosphate (FRP, P-SR)	0.005	-	1	0.02
Phosphorus total	0.01	-	4	0.015
Selenium	0.005	0.02	5	0.001
Tin	*0.003	-	4	0.0005
Total Dissolved Solids (TDS)	-	4000	5	1190
Vanadium	*0.006	ND	5	0.001
Zinc	0.008	20	5	0.005

	ANZECC 95%	Livestock drinking guidelines	MB13WARR005	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	1	0.007
Antimony	*0.009	-	1	0.002
Arsenic	0.013	5	1	0.008
Boron	0.37	5	1	1.1
Cadmium	0.0002	0.01	1	0.0004
Chromium total	0.001	1	1	0.0005
Cobalt	*0.014	1	1	0.24
Copper	0.0014	1	1	0.021
EC lab (µS/cm)	900	4000 mg/L	1	4800
Iron	*0.3	not sufficiently toxic	1	3
Lead	0.0034	0.1	1	0.032
Manganese	1.9	not sufficiently toxic	1	4.7
Mercury	0.00006	0.002	1	0.000025
Molybdenum	0.034	0.15	1	0.003
Nickel	0.011	2	1	0.12
N ammonia (NH3-N)	0.9	-	-	-
N nitrate (NO3-N)	0.03	<1500 mg/L	-	-
N NOx nitrogen (NOx-N)	0.03	-	-	-
Nitrogen total	0.3	-	-	-
pH (pH units)	6 - 8	-	1	7.5
Phosphate (FRP, P-SR)	0.005	-	-	-
Phosphorus total	0.01	-	-	-
Selenium	0.005	0.02	1	0.004
Tin	*0.003	-	1	0.0005
Total Dissolved Solids (TDS)	-	4000	1	2900
Vanadium	*0.006	ND	1	0.006
Zinc	0.008	20	1	0.22

	ANZECC 95%	Livestock drinking guidelines	MB13WARR006	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	5	0.0125
Antimony	*0.009	-	4	0.0015
Arsenic	0.013	5	5	0.001
Boron	0.37	5	5	1.46
Cadmium	0.0002	0.01	5	0.00005
Chromium total	0.001	1	5	0.002
Cobalt	*0.014	1	5	0.0005
Copper	0.0014	1	4	0.002
EC lab (µS/cm)	900	4000 mg/L	4	7785
Iron	*0.3	not sufficiently toxic	5	0.025
Lead	0.0034	0.1	5	0.0005
Manganese	1.9	not sufficiently toxic	5	0.026
Mercury	0.00006	0.002	5	0.00005
Molybdenum	0.034	0.15	5	0.0009
Nickel	0.011	2	5	0.004
N ammonia (NH3-N)	0.9	-	1	0.03
N nitrate (NO3-N)	0.03	<1500 mg/L	3	2.02
N NOx nitrogen (NOx-N)	0.03	-	3	2.02
Nitrogen total	0.3	-	1	2.1
pH (pH units)	6 - 8	-	4	7.49
Phosphate (FRP, P-SR)	0.005	-	1	0.02
Phosphorus total	0.01	-	4	0.045
Selenium	0.005	0.02	5	0.01
Tin	*0.003	-	4	0.00075
Total Dissolved Solids (TDS)	-	4000	5	5500
Vanadium	*0.006	ND	5	0.005
Zinc	0.008	20	5	0.012

	ANZECC 95%	Livestock drinking guidelines	MB13WARR009	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	1	0.0025
Antimony	*0.009	-	1	0.001
Arsenic	0.013	5	1	0.0005
Boron	0.37	5	1	0.52
Cadmium	0.0002	0.01	1	0.00005
Chromium total	0.001	1	1	0.001
Cobalt	*0.014	1	1	0.0005
Copper	0.0014	1	1	0.006
EC lab (µS/cm)	900	4000 mg/L	1	1300
Iron	*0.3	not sufficiently toxic	1	0.11
Lead	0.0034	0.1	1	0.005
Manganese	1.9	not sufficiently toxic	1	0.026
Mercury	0.00006	0.002	1	0.000025
Molybdenum	0.034	0.15	1	0.0005
Nickel	0.011	2	1	0.003
N ammonia (NH3-N)	0.9	-	-	-
N nitrate (NO3-N)	0.03	<1500 mg/L	-	-
N NOx nitrogen (NOx-N)	0.03	-	-	-
Nitrogen total	0.3	-	-	-
pH (pH units)	6 - 8	-	1	7.5
Phosphate (FRP, P-SR)	0.005	-	-	-
Phosphorus total	0.01	-	-	-
Selenium	0.005	0.02	1	0.001
Tin	*0.003	-	1	0.0005
Total Dissolved Solids (TDS)	-	4000	1	700
Vanadium	*0.006	ND	1	0.001
Zinc	0.008	20	1	0.024

	ANZECC 95%	Livestock drinking guidelines	MB13WARR010	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	5	0.005
Antimony	*0.009	-	4	0.0005
Arsenic	0.013	5	5	0.0005
Boron	0.37	5	5	0.5
Cadmium	0.0002	0.01	5	0.00005
Chromium total	0.001	1	5	0.0005
Cobalt	*0.014	1	5	0.0005
Copper	0.0014	1	4	0.0005
EC lab (µS/cm)	900	4000 mg/L	4	1830
Iron	*0.3	not sufficiently toxic	5	0.025
Lead	0.0034	0.1	5	0.0005
Manganese	1.9	not sufficiently toxic	5	0.045
Mercury	0.00006	0.002	5	0.000025
Molybdenum	0.034	0.15	5	0.0005
Nickel	0.011	2	5	0.001
N ammonia (NH3-N)	0.9	-	1	0.01
N nitrate (NO3-N)	0.03	<1500 mg/L	3	1.04
N NOx nitrogen (NOx-N)	0.03	-	3	1.04
Nitrogen total	0.3	-	1	1
pH (pH units)	6 - 8	-	4	7.4
Phosphate (FRP, P-SR)	0.005	-	1	0.02
Phosphorus total	0.01	-	4	0.005
Selenium	0.005	0.02	5	0.001
Tin	*0.003	-	4	0.0005
Total Dissolved Solids (TDS)	-	4000	5	1000
Vanadium	*0.006	ND	5	0.0006
Zinc	0.008	20	5	0.008

	ANZECC 95%	Livestock drinking guidelines	MB13WARR011	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	5	0.005
Antimony	*0.009	-	4	0.0005
Arsenic	0.013	5	5	0.0035
Boron	0.37	5	5	0.67
Cadmium	0.0002	0.01	5	0.00005
Chromium total	0.001	1	5	0.0005
Cobalt	*0.014	1	5	0.398
Copper	0.0014	1	4	0.0015
EC lab (µS/cm)	900	4000 mg/L	4	2065
Iron	*0.3	not sufficiently toxic	5	7.1
Lead	0.0034	0.1	5	0.001
Manganese	1.9	not sufficiently toxic	5	3
Mercury	0.00006	0.002	5	0.000025
Molybdenum	0.034	0.15	5	0.001
Nickel	0.011	2	5	0.26
N ammonia (NH3-N)	0.9	-	1	0.61
N nitrate (NO3-N)	0.03	<1500 mg/L	3	0.01
N NOx nitrogen (NOx-N)	0.03	-	3	0.1
Nitrogen total	0.3	-	1	4.3
pH (pH units)	6 - 8	-	4	7.62
Phosphate (FRP, P-SR)	0.005	-	1	0.04
Phosphorus total	0.01	-	4	0.025
Selenium	0.005	0.02	5	0.002
Tin	*0.003	-	4	0.0005
Total Dissolved Solids (TDS)	-	4000	5	1200
Vanadium	*0.006	ND	5	0.01
Zinc	0.008	20	5	0.016

	ANZECC 95%	Livestock drinking guidelines	MB13WARR012	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	5	0.005
Antimony	*0.009	-	4	0.0005
Arsenic	0.013	5	5	0.003
Boron	0.37	5	5	0.65
Cadmium	0.0002	0.01	5	0.00005
Chromium total	0.001	1	5	0.0005
Cobalt	*0.014	1	5	0.07
Copper	0.0014	1	4	0.003
EC lab (µS/cm)	900	4000 mg/L	4	2155
Iron	*0.3	not sufficiently toxic	5	2.96
Lead	0.0034	0.1	5	0.002
Manganese	1.9	not sufficiently toxic	5	2.7
Mercury	0.00006	0.002	5	0.000025
Molybdenum	0.034	0.15	5	0.0017
Nickel	0.011	2	5	0.17
N ammonia (NH3-N)	0.9	-	1	0.57
N nitrate (NO3-N)	0.03	<1500 mg/L	3	0.04
N NOx nitrogen (NOx-N)	0.03	-	3	0.05
Nitrogen total	0.3	-	1	1.6
pH (pH units)	6 - 8	-	4	7.59
Phosphate (FRP, P-SR)	0.005	-	1	0.02
Phosphorus total	0.01	-	4	0.02
Selenium	0.005	0.02	5	0.005
Tin	*0.003	-	4	0.0005
Total Dissolved Solids (TDS)	-	4000	5	1300
Vanadium	*0.006	ND	5	0.01
Zinc	0.008	20	5	0.01

	ANZECC 95%	Livestock drinking guidelines	MB13WARR013	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	5	0.007
Antimony	*0.009	-	4	0.0005
Arsenic	0.013	5	5	0.0015
Boron	0.37	5	5	0.55
Cadmium	0.0002	0.01	5	0.00005
Chromium total	0.001	1	5	0.001
Cobalt	*0.014	1	5	0.0005
Copper	0.0014	1	5	0.0005
EC lab (μ S/cm)	900	4000 mg/L	4	850.5
Iron	*0.3	not sufficiently toxic	5	0.025
Lead	0.0034	0.1	5	0.0005
Manganese	1.9	not sufficiently toxic	5	0.01
Mercury	0.00006	0.002	5	0.000025
Molybdenum	0.034	0.15	5	0.0005
Nickel	0.011	2	5	0.0014
N ammonia (NH3-N)	0.9	-	1	0.02
N nitrate (NO3-N)	0.03	<1500 mg/L	3	5.91
N NOx nitrogen (NOx-N)	0.03	-	3	5.91
Nitrogen total	0.3	-	1	5.6
pH (pH units)	6 - 8	-	4	7.59
Phosphate (FRP, P-SR)	0.005	-	1	0.02
Phosphorus total	0.01	-	4	0.0225
Selenium	0.005	0.02	5	0.001
Tin	*0.003	-	4	0.0005
Total Dissolved Solids (TDS)	-	4000	5	554
Vanadium	*0.006	ND	5	0.006
Zinc	0.008	20	5	0.0025

	ANZECC 95%	Livestock drinking guidelines	MB13WARR014	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	5	0.006
Antimony	*0.009	-	4	0.0005
Arsenic	0.013	5	5	0.0012
Boron	0.37	5	5	1.1
Cadmium	0.0002	0.01	5	0.00005
Chromium total	0.001	1	5	0.002
Cobalt	*0.014	1	5	0.002
Copper	0.0014	1	4	0.0005
EC lab (µS/cm)	900	4000 mg/L	4	3860
Iron	*0.3	not sufficiently toxic	5	0.008
Lead	0.0034	0.1	5	0.0005
Manganese	1.9	not sufficiently toxic	5	0.007
Mercury	0.00006	0.002	5	0.000025
Molybdenum	0.034	0.15	5	0.0038
Nickel	0.011	2	5	0.005
N ammonia (NH3-N)	0.9	-	1	0.03
N nitrate (NO3-N)	0.03	<1500 mg/L	3	4.81
N NOx nitrogen (NOx-N)	0.03	-	3	4.81
Nitrogen total	0.3	-	1	5.1
pH (pH units)	6 - 8	-	4	7.58
Phosphate (FRP, P-SR)	0.005	-	1	0.019
Phosphorus total	0.01	-	1	0.02
Selenium	0.005	0.02	5	0.004
Tin	*0.003	-	4	0.0005
Total Dissolved Solids (TDS)	-	4000	5	2610
Vanadium	*0.006	ND	5	0.004
Zinc	0.008	20	5	0.006

	ANZECC 95%	Livestock drinking guidelines	MB16WARR0001	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	2	0.01
Antimony	*0.009	-	-	-
Arsenic	0.013	5	2	0.0266
Boron	0.37	5	2	0.585
Cadmium	0.0002	0.01	2	0.0001
Chromium total	0.001	1	2	0.00025
Cobalt	*0.014	1	2	0.0032
Copper	0.0014	1	-	-
EC lab (µS/cm)	900	4000 mg/L	2	2761
Iron	*0.3	not sufficiently toxic	2	0.163
Lead	0.0034	0.1	2	0.0001
Manganese	1.9	not sufficiently toxic	2	0.549
Mercury	0.00006	0.002	2	0.00002
Molybdenum	0.034	0.15	2	0.00195
Nickel	0.011	2	1	0.0215
N ammonia (NH3-N)	0.9	-	2	0.03
N nitrate (NO3-N)	0.03	<1500 mg/L	2	1.77
N NOx nitrogen (NOx-N)	0.03	-	2	1.79
Nitrogen total	0.3	-	2	2.15
pH (pH units)	6 - 8	-	2	7
Phosphate (FRP, P-SR)	0.005	-	-	-
Phosphorus total	0.01	-	2	0.053
Selenium	0.005	0.02	2	0.001
Tin	*0.003	-	-	-
Total Dissolved Solids (TDS)	-	4000	2	1846
Vanadium	*0.006	ND	2	0.0025
Zinc	0.008	20	2	0.0068

	ANZECC 95%	Livestock drinking guidelines	MB16WARR0003	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	3	0.008
Antimony	*0.009	-	-	-
Arsenic	0.013	5	3	0.0018
Boron	0.37	5	3	0.506
Cadmium	0.0002	0.01	3	0.0001
Chromium total	0.001	1	3	0.00025
Cobalt	*0.014	1	3	0.0022
Copper	0.0014	1	-	-
EC lab (µS/cm)	900	4000 mg/L	2	1080.5
Iron	*0.3	not sufficiently toxic	3	0.139
Lead	0.0034	0.1	3	0.0001
Manganese	1.9	not sufficiently toxic	3	0.339
Mercury	0.00006	0.002	3	0.00002
Molybdenum	0.034	0.15	3	0.0012
Nickel	0.011	2	3	0.0021
N ammonia (NH3-N)	0.9	-	3	0.01
N nitrate (NO3-N)	0.03	<1500 mg/L	3	0.005
N NOx nitrogen (NOx-N)	0.03	-	3	0.005
Nitrogen total	0.3	-	3	0.05
pH (pH units)	6 - 8	-	2	6.9
Phosphate (FRP, P-SR)	0.005	-	-	-
Phosphorus total	0.01	-	3	0.02
Selenium	0.005	0.02	3	0.001
Tin	*0.003	-	-	-
Total Dissolved Solids (TDS)	-	4000	3	633
Vanadium	*0.006	ND	3	0.0005
Zinc	0.008	20	3	0.012

	ANZECC 95%	Livestock drinking guidelines	MB16WARR0004	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	3	0.006
Antimony	*0.009	-	-	-
Arsenic	0.013	5	3	0.0015
Boron	0.37	5	3	0.295
Cadmium	0.0002	0.01	3	0.0001
Chromium total	0.001	1	3	0.0007
Cobalt	*0.014	1	3	0.0001
Copper	0.0014	1	-	-
EC lab (µS/cm)	900	4000 mg/L	2	621
Iron	*0.3	not sufficiently toxic	3	0.0025
Lead	0.0034	0.1	3	0.0001
Manganese	1.9	not sufficiently toxic	3	0.0036
Mercury	0.00006	0.002	3	0.00002
Molybdenum	0.034	0.15	3	0.0003
Nickel	0.011	2	3	0.0008
N ammonia (NH3-N)	0.9	-	3	0.02
N nitrate (NO3-N)	0.03	<1500 mg/L	3	1.85
N NOx nitrogen (NOx-N)	0.03	-	3	1.85
Nitrogen total	0.3	-	3	1.8
pH (pH units)	6 - 8	-	2	6.95
Phosphate (FRP, P-SR)	0.005	-	-	-
Phosphorus total	0.01	-	3	0.005
Selenium	0.005	0.02	3	0.001
Tin	*0.003	-	-	-
Total Dissolved Solids (TDS)	-	4000	3	392
Vanadium	*0.006	ND	3	0.0038
Zinc	0.008	20	3	0.0025

	ANZECC 95%	Livestock drinking guidelines	MB16WARR0005	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	3	0.005
Antimony	*0.009	-	-	-
Arsenic	0.013	5	3	0.0005
Boron	0.37	5	3	0.298
Cadmium	0.0002	0.01	3	0.0001
Chromium total	0.001	1	3	0.00025
Cobalt	*0.014	1	3	0.0005
Copper	0.0014	1	-	-
EC lab (μ S/cm)	900	4000 mg/L	2	509.5
Iron	*0.3	not sufficiently toxic	3	0.038
Lead	0.0034	0.1	3	0.0001
Manganese	1.9	not sufficiently toxic	3	0.0321
Mercury	0.00006	0.002	3	0.00002
Molybdenum	0.034	0.15	3	0.0012
Nickel	0.011	2	3	0.0014
N ammonia (NH3-N)	0.9	-	3	0.02
N nitrate (NO3-N)	0.03	<1500 mg/L	3	0.12
N NOx nitrogen (NOx-N)	0.03	-	3	0.12
Nitrogen total	0.3	-	3	0.1
pH (pH units)	6 - 8	-	2	7.06
Phosphate (FRP, P-SR)	0.005	-	-	-
Phosphorus total	0.01	-	3	0.005
Selenium	0.005	0.02	3	0.001
Tin	*0.003	-	-	-
Total Dissolved Solids (TDS)	-	4000	3	324
Vanadium	*0.006	ND	3	0.0009
Zinc	0.008	20	3	0.006

	ANZECC 95%	Livestock drinking guidelines	MB16WARR0010	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	2	0.01
Antimony	*0.009	-	-	-
Arsenic	0.013	5	2	0.00075
Boron	0.37	5	2	0.601
Cadmium	0.0002	0.01	2	0.0001
Chromium total	0.001	1	2	0.00025
Cobalt	*0.014	1	2	0.00065
Copper	0.0014	1	-	-
EC lab (μ S/cm)	900	4000 mg/L	2	1612
Iron	*0.3	not sufficiently toxic	2	0.00425
Lead	0.0034	0.1	2	0.0001
Manganese	1.9	not sufficiently toxic	2	0.1098
Mercury	0.00006	0.002	2	0.00002
Molybdenum	0.034	0.15	2	0.00225
Nickel	0.011	2	2	0.00415
N ammonia (NH ₃ -N)	0.9	-	2	0.025
N nitrate (NO ₃ -N)	0.03	<1500 mg/L	2	0.445
N NO _x nitrogen (NO _x -N)	0.03	-	2	0.545
Nitrogen total	0.3	-	2	0.65
pH (pH units)	6 - 8	-	2	7.03
Phosphate (FRP, P-SR)	0.005	-	-	-
Phosphorus total	0.01	-	2	0.025
Selenium	0.005	0.02	2	0.001
Tin	*0.003	-	-	-
Total Dissolved Solids (TDS)	-	4000	3	916
Vanadium	*0.006	ND	2	0.00235
Zinc	0.008	20	2	0.013

	ANZECC 95%	Livestock drinking guidelines	MB16WARR0011	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	3	0.008
Antimony	*0.009	-	-	-
Arsenic	0.013	5	3	0.0005
Boron	0.37	5	3	0.517
Cadmium	0.0002	0.01	3	0.0001
Chromium total	0.001	1	3	0.0014
Cobalt	*0.014	1	3	0.0001
Copper	0.0014	1	-	-
EC lab (μ S/cm)	900	4000 mg/L	2	1512
Iron	*0.3	not sufficiently toxic	3	0.0025
Lead	0.0034	0.1	3	0.0001
Manganese	1.9	not sufficiently toxic	3	0.0024
Mercury	0.00006	0.002	3	0.00002
Molybdenum	0.034	0.15	3	0.0009
Nickel	0.011	2	3	0.0022
N ammonia (NH3-N)	0.9	-	3	0.02
N nitrate (NO3-N)	0.03	<1500 mg/L	3	2.89
N NOx nitrogen (NOx-N)	0.03	-	3	2.89
Nitrogen total	0.3	-	3	3.4
pH (pH units)	6 - 8	-	2	7.055
Phosphate (FRP, P-SR)	0.005	-	-	-
Phosphorus total	0.01	-	3	0.02
Selenium	0.005	0.02	3	0.002
Tin	*0.003	-	-	-
Total Dissolved Solids (TDS)	-	4000	3	935
Vanadium	*0.006	ND	3	0.0026
Zinc	0.008	20	3	0.009

	ANZECC 95%	Livestock drinking guidelines	MB16WARR0013	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	3	0.02
Antimony	*0.009	-	-	-
Arsenic	0.013	5	3	0.0009
Boron	0.37	5	3	0.41
Cadmium	0.0002	0.01	3	0.0001
Chromium total	0.001	1	3	0.0011
Cobalt	*0.014	1	3	0.0001
Copper	0.0014	1	-	-
EC lab (μ S/cm)	900	4000 mg/L	2	603.5
Iron	*0.3	not sufficiently toxic	3	0.006
Lead	0.0034	0.1	3	0.0001
Manganese	1.9	not sufficiently toxic	3	0.0068
Mercury	0.00006	0.002	3	0.00002
Molybdenum	0.034	0.15	3	0.001
Nickel	0.011	2	3	0.0018
N ammonia (NH3-N)	0.9	-	3	0.01
N nitrate (NO3-N)	0.03	<1500 mg/L	3	1.59
N NOx nitrogen (NOx-N)	0.03	-	3	1.59
Nitrogen total	0.3	-	3	2
pH (pH units)	6 - 8	-	2	7.22
Phosphate (FRP, P-SR)	0.005	-	-	-
Phosphorus total	0.01	-	3	0.04
Selenium	0.005	0.02	3	0.001
Tin	*0.003	-	-	-
Total Dissolved Solids (TDS)	-	4000	3	381
Vanadium	*0.006	ND	3	0.0032
Zinc	0.008	20	3	0.006

	ANZECC 95%	Livestock drinking guidelines	MB16WARR0014	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	3	0.011
Antimony	*0.009	-	-	-
Arsenic	0.013	5	3	0.0009
Boron	0.37	5	3	0.487
Cadmium	0.0002	0.01	3	0.0001
Chromium total	0.001	1	3	0.0015
Cobalt	*0.014	1	3	0.0001
Copper	0.0014	1	-	-
EC lab (µS/cm)	900	4000 mg/L	2	602
Iron	*0.3	not sufficiently toxic	3	0.005
Lead	0.0034	0.1	3	0.0001
Manganese	1.9	not sufficiently toxic	3	0.0044
Mercury	0.00006	0.002	3	0.00002
Molybdenum	0.034	0.15	3	0.0011
Nickel	0.011	2	3	0.003
N ammonia (NH3-N)	0.9	-	3	0.005
N nitrate (NO3-N)	0.03	<1500 mg/L	3	2.03
N NOx nitrogen (NOx-N)	0.03	-	3	2.03
Nitrogen total	0.3	-	3	2.7
pH (pH units)	6 - 8	-	2	7.21
Phosphate (FRP, P-SR)	0.005	-	-	-
Phosphorus total	0.01	-	3	0.005
Selenium	0.005	0.02	3	0.001
Tin	*0.003	-	-	-
Total Dissolved Solids (TDS)	-	4000	4	363.5
Vanadium	*0.006	ND	3	0.0034
Zinc	0.008	20	3	0.0025

	ANZECC 95%	Livestock drinking guidelines	MB16WARR0017	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	3	0.013
Antimony	*0.009	-	-	-
Arsenic	0.013	5	3	0.0013
Boron	0.37	5	3	0.777
Cadmium	0.0002	0.01	3	0.0001
Chromium total	0.001	1	3	0.00025
Cobalt	*0.014	1	3	0.0011
Copper	0.0014	1	-	-
EC lab (µS/cm)	900	4000 mg/L	2	1875
Iron	*0.3	not sufficiently toxic	3	0.112
Lead	0.0034	0.1	3	0.0001
Manganese	1.9	not sufficiently toxic	3	0.269
Mercury	0.00006	0.002	3	0.00002
Molybdenum	0.034	0.15	3	0.0014
Nickel	0.011	2	3	0.0021
N ammonia (NH3-N)	0.9	-	3	0.04
N nitrate (NO3-N)	0.03	<1500 mg/L	3	0.005
N NOx nitrogen (NOx-N)	0.03	-	3	0.005
Nitrogen total	0.3	-	3	0.05
pH (pH units)	6 - 8	-	2	7.06
Phosphate (FRP, P-SR)	0.005	-	-	-
Phosphorus total	0.01	-	3	0.02
Selenium	0.005	0.02	3	0.001
Tin	*0.003	-	-	-
Total Dissolved Solids (TDS)	-	4000	3	1060
Vanadium	*0.006	ND	3	0.0008
Zinc	0.008	20	3	0.0025

	ANZECC 95%	Livestock drinking guidelines	MB16WARR0018	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	3	0.009
Antimony	*0.009	-	-	-
Arsenic	0.013	5	3	0.0006
Boron	0.37	5	3	1.04
Cadmium	0.0002	0.01	3	0.0001
Chromium total	0.001	1	3	0.0007
Cobalt	*0.014	1	3	0.0001
Copper	0.0014	1	-	-
EC lab (µS/cm)	900	4000 mg/L	2	2960
Iron	*0.3	not sufficiently toxic	3	0.0025
Lead	0.0034	0.1	3	0.0001
Manganese	1.9	not sufficiently toxic	3	0.0185
Mercury	0.00006	0.002	3	0.00002
Molybdenum	0.034	0.15	3	0.0016
Nickel	0.011	2	3	0.0006
N ammonia (NH3-N)	0.9	-	3	0.02
N nitrate (NO3-N)	0.03	<1500 mg/L	3	2.54
N NOx nitrogen (NOx-N)	0.03	-	3	2.54
Nitrogen total	0.3	-	3	3.4
pH (pH units)	6 - 8	-	2	7.15
Phosphate (FRP, P-SR)	0.005	-	-	-
Phosphorus total	0.01	-	3	0.02
Selenium	0.005	0.02	3	0.004
Tin	*0.003	-	-	-
Total Dissolved Solids (TDS)	-	4000	3	1640
Vanadium	*0.006	ND	3	0.0038
Zinc	0.008	20	3	0.0025

	ANZECC 95%	Livestock drinking guidelines	MB16WARR0022	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	3	0.018
Antimony	*0.009	-	-	-
Arsenic	0.013	5	3	0.00025
Boron	0.37	5	3	0.565
Cadmium	0.0002	0.01	3	0.0001
Chromium total	0.001	1	3	0.00025
Cobalt	*0.014	1	3	0.0001
Copper	0.0014	1	-	-
EC lab (µS/cm)	900	4000 mg/L	2	1780
Iron	*0.3	not sufficiently toxic	3	0.009
Lead	0.0034	0.1	3	0.0001
Manganese	1.9	not sufficiently toxic	3	0.0064
Mercury	0.00006	0.002	3	0.00002
Molybdenum	0.034	0.15	3	0.0007
Nickel	0.011	2	3	0.0008
N ammonia (NH3-N)	0.9	-	3	0.01
N nitrate (NO3-N)	0.03	<1500 mg/L	3	1.03
N NOx nitrogen (NOx-N)	0.03	-	3	1.03
Nitrogen total	0.3	-	3	1.2
pH (pH units)	6 - 8	-	2	6.985
Phosphate (FRP, P-SR)	0.005	-	-	-
Phosphorus total	0.01	-	3	0.005
Selenium	0.005	0.02	3	0.001
Tin	*0.003	-	-	-
Total Dissolved Solids (TDS)	-	4000	3	1050
Vanadium	*0.006	ND	3	0.0017
Zinc	0.008	20	3	0.009

	ANZECC 95%	Livestock drinking guidelines	MB16WARR0023	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	3	0.0025
Antimony	*0.009	-	-	-
Arsenic	0.013	5	3	0.00025
Boron	0.37	5	3	0.573
Cadmium	0.0002	0.01	3	0.0001
Chromium total	0.001	1	3	0.00025
Cobalt	*0.014	1	3	0.0001
Copper	0.0014	1	-	-
EC lab (μ S/cm)	900	4000 mg/L	2	1895.5
Iron	*0.3	not sufficiently toxic	3	0.0025
Lead	0.0034	0.1	3	0.0001
Manganese	1.9	not sufficiently toxic	3	0.0051
Mercury	0.00006	0.002	3	0.00002
Molybdenum	0.034	0.15	3	0.0006
Nickel	0.011	2	3	0.0006
N ammonia (NH3-N)	0.9	-	3	0.03
N nitrate (NO3-N)	0.03	<1500 mg/L	3	2.42
N NOx nitrogen (NOx-N)	0.03	-	3	2.42
Nitrogen total	0.3	-	3	3.1
pH (pH units)	6 - 8	-	2	6.91
Phosphate (FRP, P-SR)	0.005	-	-	-
Phosphorus total	0.01	-	3	0.005
Selenium	0.005	0.02	3	0.001
Tin	*0.003	-	-	-
Total Dissolved Solids (TDS)	-	4000	3	1140
Vanadium	*0.006	ND	3	0.0016
Zinc	0.008	20	3	0.0025

	ANZECC 95%	Livestock drinking guidelines	MB16WARR0033	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	2	0.00475
Antimony	*0.009	-	-	-
Arsenic	0.013	5	2	0.000625
Boron	0.37	5	2	0.5715
Cadmium	0.0002	0.01	2	0.0001
Chromium total	0.001	1	2	0.000675
Cobalt	*0.014	1	2	0.00015
Copper	0.0014	1	-	-
EC lab (μ S/cm)	900	4000 mg/L	1	642
Iron	*0.3	not sufficiently toxic	2	0.00425
Lead	0.0034	0.1	2	0.0001
Manganese	1.9	not sufficiently toxic	2	0.00485
Mercury	0.00006	0.002	2	0.00002
Molybdenum	0.034	0.15	2	0.0009
Nickel	0.011	2	2	0.001925
N ammonia (NH3-N)	0.9	-	2	0.025
N nitrate (NO3-N)	0.03	<1500 mg/L	2	1.31
N NOx nitrogen (NOx-N)	0.03	-	2	1.31
Nitrogen total	0.3	-	2	1.6
pH (pH units)	6 - 8	-	1	7.32
Phosphate (FRP, P-SR)	0.005	-	-	-
Phosphorus total	0.01	-	2	0.0125
Selenium	0.005	0.02	2	0.001
Tin	*0.003	-	-	-
Total Dissolved Solids (TDS)	-	4000	2	508
Vanadium	*0.006	ND	2	0.0026
Zinc	0.008	20	2	0.0025

	ANZECC 95%	Livestock drinking guidelines	MB16WARR0034	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	3	0.0025
Antimony	*0.009	-	-	-
Arsenic	0.013	5	3	0.001
Boron	0.37	5	3	0.824
Cadmium	0.0002	0.01	3	0.0001
Chromium total	0.001	1	3	0.00025
Cobalt	*0.014	1	3	0.0012
Copper	0.0014	1	-	-
EC lab (µS/cm)	900	4000 mg/L	1	2145
Iron	*0.3	not sufficiently toxic	3	0.062
Lead	0.0034	0.1	3	0.0001
Manganese	1.9	not sufficiently toxic	3	0.117
Mercury	0.00006	0.002	3	0.00002
Molybdenum	0.034	0.15	3	0.0008
Nickel	0.011	2	3	0.001
N ammonia (NH3-N)	0.9	-	3	0.03
N nitrate (NO3-N)	0.03	<1500 mg/L	3	0.23
N NOx nitrogen (NOx-N)	0.03	-	3	0.23
Nitrogen total	0.3	-	3	0.8
pH (pH units)	6 - 8	-	1	7.35
Phosphate (FRP, P-SR)	0.005	-	-	-
Phosphorus total	0.01	-	3	0.02
Selenium	0.005	0.02	3	0.001
Tin	*0.003	-	-	-
Total Dissolved Solids (TDS)	-	4000	3	986
Vanadium	*0.006	ND	3	0.0014
Zinc	0.008	20	3	0.0025

	ANZECC 95%	Livestock drinking guidelines	MB16WARR0036	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	2	0.0125
Antimony	*0.009	-	-	-
Arsenic	0.013	5	2	0.000525
Boron	0.37	5	2	0.635
Cadmium	0.0002	0.01	2	0.0001
Chromium total	0.001	1	3	0.000875
Cobalt	*0.014	1	3	0.0002
Copper	0.0014	1	-	-
EC lab (μ S/cm)	900	4000 mg/L	1	2620
Iron	*0.3	not sufficiently toxic	2	0.00375
Lead	0.0034	0.1	2	0.0001
Manganese	1.9	not sufficiently toxic	2	0.0066
Mercury	0.00006	0.002	2	0.00002
Molybdenum	0.034	0.15	2	0.0011
Nickel	0.011	2	2	0.00205
N ammonia (NH3-N)	0.9	-	2	0.035
N nitrate (NO3-N)	0.03	<1500 mg/L	2	3.23
N NOx nitrogen (NOx-N)	0.03	-	2	3.23
Nitrogen total	0.3	-	2	4.35
pH (pH units)	6 - 8	-	1	7.01
Phosphate (FRP, P-SR)	0.005	-	-	-
Phosphorus total	0.01	-	2	0.08
Selenium	0.005	0.02	2	0.0015
Tin	*0.003	-	-	-
Total Dissolved Solids (TDS)	-	4000	2	1565
Vanadium	*0.006	ND	2	0.00195
Zinc	0.008	20	2	0.00525

	ANZECC 95%	Livestock drinking guidelines	WB07WARR001	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	16	0.005
Antimony	*0.009	-	2	0.0005
Arsenic	0.013	5	18	0.0005
Boron	0.37	5	11	0.7
Cadmium	0.0002	0.01	11	0.00005
Chromium total	0.001	1	11	0.0005
Cobalt	*0.014	1	2	0.0005
Copper	0.0014	1	16	0.0027
EC lab (µS/cm)	900	4000 mg/L	13	2200
Iron	*0.3	not sufficiently toxic	19	0.01
Lead	0.0034	0.1	18	0.0005
Manganese	1.9	not sufficiently toxic	13	0.0025
Mercury	0.00006	0.002	2	0.000043
Molybdenum	0.034	0.15	5	0.0005
Nickel	0.011	2	13	0.002
N ammonia (NH3-N)	0.9	-	5	0.0025
N nitrate (NO3-N)	0.03	<1500 mg/L	-	-
N NOx nitrogen (NOx-N)	0.03	-	-	-
Nitrogen total	0.3	-	-	-
pH (pH units)	6 - 8	-	21	7.6
Phosphate (FRP, P-SR)	0.005	-	1	0.02
Phosphorus total	0.01	-	1	0.005
Selenium	0.005	0.02	9	0.001
Tin	*0.003	-	2	0.0005
Total Dissolved Solids (TDS)	-	4000	21	1200
Vanadium	*0.006	ND	2	0.0005
Zinc	0.008	20	18	0.005

	ANZECC 95%	Livestock drinking guidelines	WB07WARR003	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	18	0.005
Antimony	*0.009	-	1	0.0005
Arsenic	0.013	5	21	0.0005
Boron	0.37	5	11	0.63
Cadmium	0.0002	0.01	8	0.00005
Chromium total	0.001	1	11	0.0005
Cobalt	*0.014	1	1	0.0005
Copper	0.0014	1	18	0.0049
EC lab (µS/cm)	900	4000 mg/L	10	2000
Iron	*0.3	not sufficiently toxic	21	0.005
Lead	0.0034	0.1	20	0.0005
Manganese	1.9	not sufficiently toxic	13	0.003
Mercury	0.00006	0.002	1	0.000025
Molybdenum	0.034	0.15	6	0.00775
Nickel	0.011	2	13	0.0025
N ammonia (NH3-N)	0.9	-	7	0.0025
N nitrate (NO3-N)	0.03	<1500 mg/L	-	-
N NOx nitrogen (NOx-N)	0.03	-	-	-
Nitrogen total	0.3	-	-	-
pH (pH units)	6 - 8	-	22	7.45
Phosphate (FRP, P-SR)	0.005	-	1	0.02
Phosphorus total	0.01	-	1	0.005
Selenium	0.005	0.02	6	0.001
Tin	*0.003	-	1	0.0005
Total Dissolved Solids (TDS)	-	4000	21	1200
Vanadium	*0.006	ND	1	0.0005
Zinc	0.008	20	21	0.01

	ANZECC 95%	Livestock drinking guidelines	WB07WARR005	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	1	0.0025
Antimony	*0.009	-	1	0.0005
Arsenic	0.013	5	1	0.0005
Boron	0.37	5	1	0.99
Cadmium	0.0002	0.01	1	0.00005
Chromium total	0.001	1	1	0.0005
Cobalt	*0.014	1	1	0.004
Copper	0.0014	1	1	0.0005
EC lab (µS/cm)	900	4000 mg/L	1	1700
Iron	*0.3	not sufficiently toxic	1	0.16
Lead	0.0034	0.1	1	0.0005
Manganese	1.9	not sufficiently toxic	1	1.6
Mercury	0.00006	0.002	1	0.000025
Molybdenum	0.034	0.15	1	0.0005
Nickel	0.011	2	1	0.16
N ammonia (NH3-N)	0.9	-	-	-
N nitrate (NO3-N)	0.03	<1500 mg/L	-	-
N NOx nitrogen (NOx-N)	0.03	-	-	-
Nitrogen total	0.3	-	-	-
pH (pH units)	6 - 8	-	1	7.7
Phosphate (FRP, P-SR)	0.005	-	-	-
Phosphorus total	0.01	-	-	-
Selenium	0.005	0.02	1	0.001
Tin	*0.003	-	1	0.0005
Total Dissolved Solids (TDS)	-	4000	1	890
Vanadium	*0.006	ND	1	0.0005
Zinc	0.008	20	1	0.029

	ANZECC 95%	Livestock drinking guidelines	WB07WARR006	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	14	0.005
Antimony	*0.009	-	1	0.0005
Arsenic	0.013	5	15	0.0005
Boron	0.37	5	11	0.64
Cadmium	0.0002	0.01	8	0.00005
Chromium total	0.001	1	10	0.005
Cobalt	*0.014	1	1	0.0005
Copper	0.0014	1	13	0.005
EC lab (µS/cm)	900	4000 mg/L	10	1950
Iron	*0.3	not sufficiently toxic	16	0.005
Lead	0.0034	0.1	15	0.0005
Manganese	1.9	not sufficiently toxic	9	0.003
Mercury	0.00006	0.002	1	0.000025
Molybdenum	0.034	0.15	5	0.0005
Nickel	0.011	2	12	0.00175
N ammonia (NH3-N)	0.9	-	6	0.0025
N nitrate (NO3-N)	0.03	<1500 mg/L		
N NOx nitrogen (NOx-N)	0.03	-		
Nitrogen total	0.3	-	1	3
pH (pH units)	6 - 8	-	18	7.65
Phosphate (FRP, P-SR)	0.005	-	1	0.02
Phosphorus total	0.01	-	1	0.005
Selenium	0.005	0.02	7	0.0005
Tin	*0.003	-	1	0.0005
Total Dissolved Solids (TDS)	-	4000	18	1100
Vanadium	*0.006	ND	1	0.0005
Zinc	0.008	20	15	0.006

	ANZECC 95%	Livestock drinking guidelines	WB07WARR008	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	18	0.005
Antimony	*0.009	-	1	0.0005
Arsenic	0.013	5	21	0.0005
Boron	0.37	5	14	0.745
Cadmium	0.0002	0.01	11	0.00005
Chromium total	0.001	1	14	0.0005
Cobalt	*0.014	1	2	0.0005
Copper	0.0014	1	18	0.005
EC lab (µS/cm)	900	4000 mg/L	14	2500
Iron	*0.3	not sufficiently toxic	22	0.01
Lead	0.0034	0.1	21	0.0005
Manganese	1.9	not sufficiently toxic	14	0.0055
Mercury	0.00006	0.002	2	0.000038
Molybdenum	0.034	0.15	7	0.0005
Nickel	0.011	2	15	0.02
N ammonia (NH3-N)	0.9	-	8	0.0025
N nitrate (NO3-N)	0.03	<1500 mg/L		
N NOx nitrogen (NOx-N)	0.03	-		
Nitrogen total	0.3	-	1	4.5
pH (pH units)	6 - 8	-	24	7.65
Phosphate (FRP, P-SR)	0.005	-	1	0.02
Phosphorus total	0.01	-	1	0.005
Selenium	0.005	0.02	9	0.001
Tin	*0.003	-	2	0.0005
Total Dissolved Solids (TDS)	-	4000	24	1500
Vanadium	*0.006	ND	2	0.0005
Zinc	0.008	20	21	0.015

	ANZECC 95%	Livestock drinking guidelines	WB08WARR001	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	12	0.005
Antimony	*0.009	-	2	0.0005
Arsenic	0.013	5	15	0.0005
Boron	0.37	5	10	0.67
Cadmium	0.0002	0.01	7	0.00005
Chromium total	0.001	1	12	0.0005
Cobalt	*0.014	1	2	0.0005
Copper	0.0014	1	12	0.005
EC lab (µS/cm)	900	4000 mg/L	10	1950
Iron	*0.3	not sufficiently toxic	16	0.0075
Lead	0.0034	0.1	14	0.0005
Manganese	1.9	not sufficiently toxic	13	0.0025
Mercury	0.00006	0.002	2	0.000025
Molybdenum	0.034	0.15	7	0.0005
Nickel	0.011	2	8	0.00225
N ammonia (NH3-N)	0.9	-	8	0.0025
N nitrate (NO3-N)	0.03	<1500 mg/L	-	-
N NOx nitrogen (NOx-N)	0.03	-	-	-
Nitrogen total	0.3	-	1	2.1
pH (pH units)	6 - 8	-	18	7.7
Phosphate (FRP, P-SR)	0.005	-	1	0.019
Phosphorus total	0.01	-	1	0.005
Selenium	0.005	0.02	5	0.001
Tin	*0.003	-	2	0.0005
Total Dissolved Solids (TDS)	-	4000	18	1100
Vanadium	*0.006	ND	2	0.0005
Zinc	0.008	20	15	0.02

	ANZECC 95%	Livestock drinking guidelines	WB08WARR002	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	1	0.01
Antimony	*0.009	-	-	-
Arsenic	0.013	5	1	0.03
Boron	0.37	5	-	-
Cadmium	0.0002	0.01	-	-
Chromium total	0.001	1	-	-
Cobalt	*0.014	1	-	-
Copper	0.0014	1	1	0.005
EC lab (µS/cm)	900	4000 mg/L	4	1975.5
Iron	*0.3	not sufficiently toxic	1	0.01
Lead	0.0034	0.1	1	0.02
Manganese	1.9	not sufficiently toxic	-	-
Mercury	0.00006	0.002	-	-
Molybdenum	0.034	0.15	-	-
Nickel	0.011	2	1	0.0025
N ammonia (NH3-N)	0.9	-	-	-
N nitrate (NO3-N)	0.03	<1500 mg/L	-	-
N NOx nitrogen (NOx-N)	0.03	-	-	-
Nitrogen total	0.3	-	-	-
pH (pH units)	6 - 8	-	1	7.8
Phosphate (FRP, P-SR)	0.005	-	-	-
Phosphorus total	0.01	-	-	-
Selenium	0.005	0.02	-	-
Tin	*0.003	-	-	-
Total Dissolved Solids (TDS)	-	4000	1	880
Vanadium	*0.006	ND	-	-
Zinc	0.008	20	1	0.01

	ANZECC 95%	Livestock drinking guidelines	WB08WARR003	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	5	0.01
Antimony	*0.009	-	-	-
Arsenic	0.013	5	5	0.0005
Boron	0.37	5	4	0.55
Cadmium	0.0002	0.01	4	0.0001
Chromium total	0.001	1	4	0.01
Cobalt	*0.014	1	1	0.0005
Copper	0.0014	1	5	0.007
EC lab (µS/cm)	900	4000 mg/L	4	1700
Iron	*0.3	not sufficiently toxic	5	0.01
Lead	0.0034	0.1	5	0.0005
Manganese	1.9	not sufficiently toxic	2	0.1415
Mercury	0.00006	0.002	1	0.000025
Molybdenum	0.034	0.15	2	0.00775
Nickel	0.011	2	5	0.02
N ammonia (NH3-N)	0.9	-	-	-
N nitrate (NO3-N)	0.03	<1500 mg/L	-	-
N NOx nitrogen (NOx-N)	0.03	-	-	-
Nitrogen total	0.3	-	-	-
pH (pH units)	6 - 8	-	5	7.7
Phosphate (FRP, P-SR)	0.005	-	-	-
Phosphorus total	0.01	-	-	-
Selenium	0.005	0.02	4	0.0008
Tin	*0.003	-	1	0.0005
Total Dissolved Solids (TDS)	-	4000	5	950
Vanadium	*0.006	ND	1	0.0005
Zinc	0.008	20	5	0.003

	ANZECC 95%	Livestock drinking guidelines	WB13WARR001	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	1	0.014
Antimony	*0.009	-	1	0.0005
Arsenic	0.013	5	1	0.0005
Boron	0.37	5	1	0.61
Cadmium	0.0002	0.01	1	0.00005
Chromium total	0.001	1	1	0.0005
Cobalt	*0.014	1	1	0.003
Copper	0.0014	1	1	0.007
EC lab (µS/cm)	900	4000 mg/L	-	-
Iron	*0.3	not sufficiently toxic	1	0.07
Lead	0.0034	0.1	1	0.0005
Manganese	1.9	not sufficiently toxic	1	0.041
Mercury	0.00006	0.002	1	0.000025
Molybdenum	0.034	0.15	1	0.0005
Nickel	0.011	2	1	0.002
N ammonia (NH3-N)	0.9	-	-	-
N nitrate (NO3-N)	0.03	<1500 mg/L	-	-
N NOx nitrogen (NOx-N)	0.03	-	-	-
Nitrogen total	0.3	-	1	1.1
pH (pH units)	6 - 8	-	1	7.6
Phosphate (FRP, P-SR)	0.005	-	-	-
Phosphorus total	0.01	-	1	0.005
Selenium	0.005	0.02	1	0.001
Tin	*0.003	-	-	-
Total Dissolved Solids (TDS)	-	4000	1	1100
Vanadium	*0.006	ND	-	-
Zinc	0.008	20	1	0.011

	ANZECC 95%	Livestock drinking guidelines	WB13WARR002	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	1	0.0025
Antimony	*0.009	-	1	0.0005
Arsenic	0.013	5	1	0.0005
Boron	0.37	5	1	0.6
Cadmium	0.0002	0.01	1	0.00005
Chromium total	0.001	1	1	0.0005
Cobalt	*0.014	1	1	0.013
Copper	0.0014	1	1	0.002
EC lab (µS/cm)	900	4000 mg/L	-	-
Iron	*0.3	not sufficiently toxic	1	0.079
Lead	0.0034	0.1	1	0.0005
Manganese	1.9	not sufficiently toxic	1	0.06
Mercury	0.00006	0.002	1	0.000025
Molybdenum	0.034	0.15	1	0.0005
Nickel	0.011	2	1	0.004
N ammonia (NH3-N)	0.9	-	-	-
N nitrate (NO3-N)	0.03	<1500 mg/L	-	-
N NOx nitrogen (NOx-N)	0.03	-	-	-
Nitrogen total	0.3	-	1	1.2
pH (pH units)	6 - 8	-	1	7.6
Phosphate (FRP, P-SR)	0.005	-	-	-
Phosphorus total	0.01	-	1	0.005
Selenium	0.005	0.02	1	0.001
Tin	*0.003	-	-	-
Total Dissolved Solids (TDS)	-	4000	1	1100
Vanadium	*0.006	ND	-	-
Zinc	0.008	20	1	0.031

	ANZECC 95%	Livestock drinking guidelines	WB13WARR003	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	1	0.0025
Antimony	*0.009	-	1	0.0005
Arsenic	0.013	5	1	0.0005
Boron	0.37	5	1	0.45
Cadmium	0.0002	0.01	1	0.00005
Chromium total	0.001	1	1	0.0005
Cobalt	*0.014	1	1	0.0005
Copper	0.0014	1	1	0.0005
EC lab (µS/cm)	900	4000 mg/L	-	-
Iron	*0.3	not sufficiently toxic	1	0.0025
Lead	0.0034	0.1	1	0.0005
Manganese	1.9	not sufficiently toxic	1	0.001
Mercury	0.00006	0.002	1	0.000025
Molybdenum	0.034	0.15	1	0.0005
Nickel	0.011	2	1	0.0005
N ammonia (NH3-N)	0.9	-	-	-
N nitrate (NO3-N)	0.03	<1500 mg/L	-	-
N NOx nitrogen (NOx-N)	0.03	-	-	-
Nitrogen total	0.3	-	1	0.88
pH (pH units)	6 - 8	-	1	7.6
Phosphate (FRP, P-SR)	0.005	-	-	-
Phosphorus total	0.01	-	1	0.005
Selenium	0.005	0.02	1	0.001
Tin	*0.003	-	-	-
Total Dissolved Solids (TDS)	-	4000	1	1100
Vanadium	*0.006	ND	-	-
Zinc	0.008	20	1	0.015

	ANZECC 95%	Livestock drinking guidelines	WB16WARR0001	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	2	0.0065
Antimony	*0.009	-	-	-
Arsenic	0.013	5	2	0.00025
Boron	0.37	5	2	0.5425
Cadmium	0.0002	0.01	2	0.0001
Chromium total	0.001	1	2	0.00025
Cobalt	*0.014	1	2	0.0002
Copper	0.0014	1	-	-
EC lab (μ S/cm)	900	4000 mg/L	2	1455.5
Iron	*0.3	not sufficiently toxic	2	0.0075
Lead	0.0034	0.1	2	0.0001
Manganese	1.9	not sufficiently toxic	2	0.0237
Mercury	0.00006	0.002	2	0.00002
Molybdenum	0.034	0.15	2	0.0008
Nickel	0.011	2	2	0.0027
N ammonia (NH3-N)	0.9	-	-	-
N nitrate (NO3-N)	0.03	<1500 mg/L	2	0.995
N NOx nitrogen (NOx-N)	0.03	-	2	0.995
Nitrogen total	0.3	-	2	1.1
pH (pH units)	6 - 8	-	2	6.825
Phosphate (FRP, P-SR)	0.005	-	-	-
Phosphorus total	0.01	-	2	0.0075
Selenium	0.005	0.02	2	0.001
Tin	*0.003	-	-	-
Total Dissolved Solids (TDS)	-	4000	2	824
Vanadium	*0.006	ND	2	0.0031
Zinc	0.008	20	2	0.007

	ANZECC 95%	Livestock drinking guidelines	WB16WARR0002	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	4	0.0025
Antimony	*0.009	-	-	-
Arsenic	0.013	5	4	0.0004
Boron	0.37	5	4	0.558
Cadmium	0.0002	0.01	4	0.0001
Chromium total	0.001	1	4	0.0003
Cobalt	*0.014	1	4	0.0008
Copper	0.0014	1	-	-
EC lab (µS/cm)	900	4000 mg/L	2	1499
Iron	*0.3	not sufficiently toxic	4	0.01
Lead	0.0034	0.1	4	0.0001
Manganese	1.9	not sufficiently toxic	4	0.0106
Mercury	0.00006	0.002	4	0.00002
Molybdenum	0.034	0.15	4	0.0007
Nickel	0.011	2	4	0.0023
N ammonia (NH3-N)	0.9	-	4	0.02
N nitrate (NO3-N)	0.03	<1500 mg/L	4	0.61
N NOx nitrogen (NOx-N)	0.03	-	4	0.61
Nitrogen total	0.3	-	4	0.65
pH (pH units)	6 - 8	-	2	7.05
Phosphate (FRP, P-SR)	0.005	-	-	-
Phosphorus total	0.01	-	4	0.005
Selenium	0.005	0.02	4	0.001
Tin	*0.003	-	-	-
Total Dissolved Solids (TDS)	-	4000	4	853.5
Vanadium	*0.006	ND	4	0.0011
Zinc	0.008	20	4	0.0043

	ANZECC 95%	Livestock drinking guidelines	WB16WARR0003	
			Count	Median groundwater quality
Aluminium (at pH>6.5)	0.055	5	3	0.0025
Antimony	*0.009	-	-	-
Arsenic	0.013	5	3	0.00025
Boron	0.37	5	3	0.599
Cadmium	0.0002	0.01	3	0.0001
Chromium total	0.001	1	3	0.00025
Cobalt	*0.014	1	3	0.0001
Copper	0.0014	1	-	-
EC lab (μ S/cm)	900	4000 mg/L	2	1902
Iron	*0.3	not sufficiently toxic	3	0.006
Lead	0.0034	0.1	3	0.0001
Manganese	1.9	not sufficiently toxic	3	0.0054
Mercury	0.00006	0.002	3	0.00002
Molybdenum	0.034	0.15	3	0.0005
Nickel	0.011	2	3	0.0023
N ammonia (NH3-N)	0.9	-	3	0.02
N nitrate (NO3-N)	0.03	<1500 mg/L	3	3.11
N NOx nitrogen (NOx-N)	0.03	-	3	3.11
Nitrogen total	0.3	-	3	3.4
pH (pH units)	6 - 8	-	2	6.92
Phosphate (FRP, P-SR)	0.005	-	-	-
Phosphorus total	0.01	-	3	0.005
Selenium	0.005	0.02	3	0.001
Tin	*0.003	-	-	-
Total Dissolved Solids (TDS)	-	4000	3	1210
Vanadium	*0.006	ND	3	0.0007
Zinc	0.008	20	3	0.0025