

Chemical Analysis

MT CROSBY

March 2008

Test Description		Units	MAX	MIN	MEAN	NHMRC*
pH			8.0	7.9	7.9	6.5-8.5
Conductivity	25 ^o C	uS/cm	507	445	484	
Total Dissolved Salts	est.	mg/L	324	285	310	
Alkalinity (Total)	as CaCO ₃	mg/L	95	76	89	
Colour (True)		PCU	1.6	0.8	1.3	15
Turbidity (Raw)		NTU	0.2	<0.1	<0.1	5
Langelier Index			-0.1	-0.3	-0.2	
Calcium Hardness	as CaCO ₃	mg/L	53	45	49	
Magnesium Hardness	as CaCO ₃	mg/L	68	44	58	
Total Hardness	as CaCO ₃	mg/L	121	89	108	200
Aluminium	as Al	mg/L	0.097	0.081	0.091	0.2
Arsenic	as As	mg/L	<0.005	<0.005	<0.005	0.007
Barium	as Ba	mg/L	0.033	0.023	0.029	0.7
Cadmium	as Cd	mg/L	<0.001	<0.001	<0.001	0.002
Calcium	as Ca	mg/L	21	18	20	
Chloride	as Cl	mg/L	79	58	72	250
Chromium	as Cr	mg/L	<0.002	<0.002	<0.002	0.05
Copper	as Cu	mg/L	0.002	<0.001	<0.001	1
Iron	as Fe	mg/L	0.01	<0.01	<0.01	0.3
Lead	as Pb	mg/L	<0.01	<0.01	<0.01	0.01
Magnesium	as Mg	mg/L	16	11	14	
Manganese	as Mn	mg/L	0.015	0.004	0.008	0.1
Mercury	as Hg	mg/L	<0.1	<0.1	<0.1	0.001
Nickel	as Ni	mg/L	<0.002	<0.002	<0.002	0.02
Orthophosphate	as P	mg/L	0.018	0.002	0.008	
Potassium	as K	mg/L	5.8	4.0	4.8	
Silica	as SiO ₂	mg/L	15	3.6	7.8	
Sodium	as Na	mg/L	55	51	52	180
Sulphur	as SO ₄	mg/L	56	26	35	250
Zinc	as Zn	mg/L	<0.001	<0.001	<0.001	3

* National Health & Medical Research Council's Australian Drinking Water Guidelines. Where no limits are stated, these are not considered as hazardous to health.

Units abbreviation	Units
µS/cm	micro Siemens per centimetre
mg/L	milligrams per litre
PCU	Platinum colour unit
NTU	nephelometric turbidity unit

NORTH PINE

March 2008

Test Description		Units	MAX	MIN	MEAN	NHMRC*
pH			7.9	7.7	7.8	6.5-8.5
Conductivity	25°C	uS/cm	360	353	355	
Total Dissolved Salts	est.	mg/L	230	226	227	
Alkalinity (Total)	as CaCO ₃	mg/L	69	68	68	
Colour (True)		PCU	1.4	0.6	1.1	15
Turbidity (Raw)		NTU	<0.1	<0.1	<0.1	5
Langelier Index			-0.2	-0.5	-0.3	
Calcium Hardness	as CaCO ₃	mg/L	59	49	53	
Magnesium Hardness	as CaCO ₃	mg/L	44	42	43	
Total Hardness	as CaCO ₃	mg/L	102	91	96	200
Aluminium	as Al	mg/L	0.034	0.027	0.030	0.2
Arsenic	as As	mg/L	NT	NT	NT	0.007
Barium	as Ba	mg/L	0.015	0.015	0.015	0.7
Cadmium	as Cd	mg/L	<0.001	<0.001	<0.001	0.002
Calcium	as Ca	mg/L	24	19	21	
Chloride	as Cl	mg/L	42	38	40	250
Chromium	as Cr	mg/L	<0.002	<0.002	<0.002	0.05
Copper	as Cu	mg/L	0.002	<0.001	0.001	1
Iron	as Fe	mg/L	0.01	<0.01	<0.01	0.3
Lead	as Pb	mg/L	<0.01	<0.01	<0.01	0.01
Magnesium	as Mg	mg/L	11	10	10	
Manganese	as Mn	mg/L	0.015	0.005	0.008	0.1
Mercury	as Hg	mg/L	NT	NT	NT	0.001
Nickel	as Ni	mg/L	<0.002	<0.002	<0.002	0.02
Orthophosphate	as P	mg/L	0.017	0.002	0.007	
Potassium	as K	mg/L	3.2	3.0	3.2	
Silica	as SiO ₂	mg/L	9.1	7.8	8.3	
Sodium	as Na	mg/L	32	31	32	180
Sulphur	as SO ₄	mg/L	46	40	42	250
Zinc	as Zn	mg/L	<0.001	<0.001	<0.001	3

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mg/L	milligrams per litre
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NTU	nephelometric turbidity unit

ENOGGERA

March 2008

Test Description		Units	MAX	MIN	MEAN	NHMRC*
pH			7.6	7.6	7.6	6.5-8.5
Conductivity	25°C	uS/cm	327	301	313	
Total Dissolved Salts	est.	mg/L	210	193	200	
Alkalinity (Total)	as CaCO ₃	mg/L	41	36	39	
Colour (True)		PCU	2.4	0.5	1.2	15
Turbidity (Raw)		NTU	<0.1	<0.1	<0.1	5
Langelier Index			-1.2	-1.3	-1.2	
Calcium Hardness	as CaCO ₃	mg/L	20	17	19	
Magnesium Hardness	as CaCO ₃	mg/L	19	17	18	
Total Hardness	as CaCO ₃	mg/L	39	35	37	200
Aluminium	as Al	mg/L	0.012	0.007	0.009	0.2
Arsenic	as As	mg/L	<0.005	<0.005	<0.005	0.007
Barium	as Ba	mg/L	0.015	0.013	0.014	0.7
Cadmium	as Cd	mg/L	<0.001	<0.001	<0.001	0.002
Calcium	as Ca	mg/L	8.1	6.8	7.7	
Chloride	as Cl	mg/L	45	40	41	250
Chromium	as Cr	mg/L	<0.002	<0.002	<0.002	0.05
Copper	as Cu	mg/L	0.003	0.001	0.002	1
Iron	as Fe	mg/L	0.01	<0.01	<0.01	0.3
Lead	as Pb	mg/L	<0.01	<0.01	<0.01	0.01
Magnesium	as Mg	mg/L	4.6	4.2	4.4	
Manganese	as Mn	mg/L	<0.001	<0.001	<0.001	0.1
Mercury	as Hg	mg/L	<0.1	<0.1	<0.1	0.001
Nickel	as Ni	mg/L	<0.002	<0.002	<0.002	0.02
Orthophosphate	as P	mg/L	0.018	0.003	0.011	
Potassium	as K	mg/L	3.4	3.2	3.3	
Silica	as SiO ₂	mg/L	5.5	5.4	5.5	
Sodium	as Na	mg/L	49	43	45	180
Sulphur	as SO ₄	mg/L	48	42	45	250
Zinc	as Zn	mg/L	<0.001	<0.001	<0.001	3

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