Chemical Analysis

Mt Crosby

November 2007

Test Description		Units	MAX	MIN	MEAN	NHMRC*
pH			8.1	7.8	7.9	6.5-8.5
Conductivity	25^{0}C	uS/cm	538	529	533	
Total Dissolved Salts	est.	mg/L	344	339	341	
Alkalinity (Total)	as $CaCO_3$	mg/L	110	101	106	
Colour (True)		PCU	1.9	0.9	1.3	15
Turbidity (Raw)		NTU	0.1	<0.1	<0.1	5
Langelier Index			0.2	0.0	0.0	
Calcium Hardness	as $CaCO_3$	mg/L	71	64	66	
Magnesium Hardness	as $CaCO_3$	mg/L	83	74	78	
Total Hardness	as CaCO3	mg/L	154	137	144	200
Aluminium	as Al	mg/L	0.066	0.057	0.061	0.2
Arsenic	as As	mg/L	NT	NT	NT	0.007
Barium	as Ba	mg/L	0.041	0.037	0.039	0.7
Cadmium	as Cd	mg/L	<0.001	<0.001	<0.001	0.002
Calcium	as Ca	mg/L	28	26	27	
Chloride	as Cl	mg/L	90	84	88	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	<0.005	<0.005	<0.01	0.01
Magnesium	as Mg	mg/L	20	18	19	
Manganese	as Mn	mg/L	0.012	0.009	0.011	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	0.011	0.009	0.010	
Potassium	as K	mg/L	5.2	4.3	4.8	
Silica	as SiO_2	mg/L	2.0	1.5	1.8	
Sodium	as Na	mg/L	53	48	50	180
Sulphur	as SO_4	mg/L	31	26	28	250
Zinc	as Zn	mg/L	<0.005	<0.005	<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

November 2007

The North Pine Treatment plant is currently shut down.

Enoggera
November 2007

Test Description		Units	MAX	MIN	MEAN	NHMRC*
pH			7.9	7.8	7.8	6.5-8.5
Conductivity	25^0C	uS/cm	249	239	245	
Total Dissolved Salts	est.	mg/L	159	153	157	
Alkalinity (Total)	as $CaCO_3$	mg/L	46	40	44	
Colour (True)		PCU	1.7	1.2	1.4	15
Turbidity (Raw)		NTU	<0.1	<0.1	<0.1	5
Langelier Index			-0.8	-1.0	-0.9	
Calcium Hardness	as $CaCO_3$	mg/L	22	21	21	
Magnesium Hardness	as $CaCO_3$	mg/L	21	20	20	
Total Hardness	as CaCO3	mg/L	42	40	41	200
Aluminium	as Al	mg/L	0.052	<0.001	0.032	0.2
Arsenic	as As	mg/L	NT	NT	NT	0.007
Barium	as Ba	mg/L	0.013	0.011	0.012	0.7
Cadmium	as Cd	mg/L	<0.001	<0.001	<0.001	0.002
Calcium	as Ca	mg/L	8.7	8.3	8.5	
Chloride	as Cl	mg/L	37	36	36	250
Chromium	as Cr	mg/L	<0.002	<0.002	<0.002	0.05
Copper	as Cu	mg/L	0.026	0.002	0.010	1
Iron	as Fe	mg/L	0.24	<0.01	0.09	0.3
Lead	as Pb	mg/L	<0.01	<0.01	<0.01	0.01
Magnesium	as Mg	mg/L	5.0	4.7	4.9	
Manganese	as Mn	mg/L	0.087	<0.001	0.030	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	0.016	0.008	0.012	
Potassium	as K	mg/L	2.9	2.7	2.8	
Silica	as SiO_2	mg/L	2.6	2.2	2.4	
Sodium	as Na	mg/L	32	17	27	180
Sulphur	as SO_4	mg/L	16	2	11	250
Zinc	as Zn	mg/L	0.005	<0.001	0.0017	3

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