

# TYPICAL ANALYSIS OF MELBOURNE'S WATER 2011

BASED ON ANALYSES BETWEEN JULY 2006 AND JUNE 2011

Parameter	Units	Cardinia	Greenvale	Silvan	Winneke	Tarago *	Yan Yean
pH	units	7.0 - 7.5	6.9 - 7.3	6.9 - 7.4	6.8 - 7.9	7.0 - 7.4	6.9 - 7.6
Colour	Pt/Co	3	4	8	2	2	2
Turbidity	NTU	0.6 - 2.3	0.9 - 5	0.7 - 2.2	0.1 - 0.9	0.2 - 0.4	0.1 - 0.9
Specific Conductance	uS/cm	55 - 75	60 - 72	50 - 65	110 - 170	180 - 200	110 - 170
Iron	mg/L	0.05	0.06	0.07	0.01	0.01	0.01
Manganese	mg/L	0.007	0.008	0.008	0.010	0.018	0.003
Fluoride	mg/L	0.88	0.95	0.90	0.85	0.81	0.82
Aluminium (Acid Soluble)	mg/L	0.01	0.02	0.04	0.03	0.04	0.03
Arsenic	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Cadmium	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Calcium	mg/L	3.7	4.1	4.1	7.7	14.8	8.3
Chloride	mg/L	7.6	8.9	6.8	19.4	23.5	23.1
Chromium	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Copper	mg/L	0.02	0.03	0.14	0.02	0.01	<0.02
Cyanide	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Haloacetic acids							
- Chloroacetic acid	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
- Dichloroacetic acid	mg/L	0.009	0.008	0.019	0.005	0.008	0.005
- Trichloroacetic acid	mg/L	0.008	0.009	0.014	0.003	0.005	0.004
Hardness	mg/L	16	16	15	30	49	30
Lead	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Magnesium	mg/L	1.5	1.5	1.3	2.3	3.3	2.7
Mercury	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Nickel	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Nitrate (N)	mg/L	0.11	0.13	0.25	0.44	0.25	0.24
Potassium	mg/L	0.7	0.7	0.6	1.5	2.1	1.3
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Silica as SiO <sub>2</sub>	mg/L	6.7	6.9	7.4	5.2	5.1	3.6
Sodium	mg/L	4.7	5.0	4.0	10.8	13.5	13.3
Sulphate	mg/L	1.3	1.4	1.0	15.2	21.5	12.56
Total Alkalinity (as CaCO <sub>3</sub> )	mg/L	11.5	10.6	9.8	10.6	25.4	11.3
Total Organic Carbon	mg/L	2.1	2.3	2.4	1.9	2.5	2.8
Total Phosphorus	mg/L	<0.005	0.005	0.006	<0.005	0.006	<0.005
Total Dissolved Solids	mg/L	38	42	35	80	115	85
Total Trihalomethanes	mg/L	0.025	0.018	0.023	0.024	0.033	0.040
Zinc	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	0.01

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Nominal values rounded to nearest decimal point

**Tarago figures are based on 2 years operation at the new Tarago Treatment Plant**