

ANALYSIS of WINNIPEG WATER

Winnipeg has potable water that does not require softening for regular use. The following is the 2000 Water Quality Summary.

Physical Water Quality Data		Average	Range	
			Min.	Max.
Total Solids	mg/L	93	39	123
Color (apparent)	units	11	8	15
Color (true)	units	9	3	15
Specific Conductance	umho/cm	171	150	193
Threshold Odor No.	units	95	8	>200
Turbidity	n.t.u.	0.75	0.20	0.9
Plankton Count	cells/ml	37,500	2,664	120,000
Chemical Water Quality Data				
Chlorine Residue (Total)	mg/L	0.88	0.28	1.75
Fluoride	mg/L	0.14	0.08	0.19
Alkalinity (Total)	mg/L	79	74	87
Hardness (Total)	mg/L	80	74	87
pH	units	7.9	7.3	9
Organic Carbon (Total)	mg/L	9.0	8.0	10
Organic Carbon (Soluble)	mg/L	9.0	8.0	10
Trihalomethane (Total)	ug/L	< 0.05	< 0.05	< 0.05
Nitrogen (Total Kjeldahl)	mg/LN	0.41	0.33	0.54
Nitrogen (nitrate)	mg/LN	< 0.04	< 0.04	< 0.04
Phosphorus (Filt. Reactive)	ug/LP	2	1.1	3
Phosphorus (Total)	ug/LP	15.9	13.3	19.95
Chloride	mg/L	< 2	< 2	< 2
Sulfate	mg/L	< 10	< 10	< 10
Calcium	mg/L	21.0	19.5	22.8
Magnesium	mg/L	5.91	5.45	7.5
Sodium	mg/L	2.02	1.9	2.18
Potassium	mg/L	1.18	1.13	1.28
Iron	mg/L	< 0.03*	< 0.05	< 0.05
Manganese	mg/L	< 0.03*	< 0.05	< 0.05
Copper	mg/L	0.03*	< 0.05	< 0.03
Zinc	mg/L	< 0.03*	< 0.05	< 0.03
Lead	mg/L	< 0.002	-	-
Chromium	mg/L	< 0.0005	-	-
Nickel	mg/L	< 0.0010	-	-
Cadmium	mg/L	< 0.00005	-	-
Aluminium	mg/L	< 0.05	-	-

* **Note:** When a sample location gave metal values containing >50% undetectable values, the median value is reported as the average value.