

EPCOR

Water Quality 2009

2.1.1 SUMMARY OF MAJOR CHEMICALS, MICROBIOLOGICAL, AND PHYSICAL PARAMETERS OF EDMONTON DRINKING WATER

December 2009

Parameter	Unit	Monthly	YTD	YTD Range	
		Average	Median	Min	Max
Alkalinity, total	mg CaCO3/L	129	116	90	147
Aluminum	mg/L	0.059	0.052	0.036	0.126
Arsenic	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	ug/L	0.5	0.6	< 0.5	2.1
Cadmium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloride, dissolved	mg/L	3.87	4.15	2.04	7.49
Chlorine, total	mg/L	1.93	1.96	1.81	2.11
Chromium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Colour	TCU	< 1	< 1	< 1	1
Conductivity	uS/cm	374	369	322	432
Copper	mg/L	< 0.003	0.003	< 0.003	0.004
Cryptosporidium	oocysts/100L	< 0.1	< 0.1	< 0.1	< 0.1
Fluoride, dissolved	mg/L	0.71	0.74	0.65	0.86
Giardia	cysts/100L	< 0.1	< 0.1	< 0.1	< 0.1
Hardness, Calcium	mg CaCO3/L	124	114	96	142
Hardness, total	mg CaCO3/L	181	167	138	205
Iron	mg/L	< 0.002	0.002	< 0.002	0.004
Lead	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Manganese	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Mercury	mg/L	< 0.0001	0.0001	< 0.0001	0.0002
Nitrate (as N)	mg/L	0.084	0.070	< 0.010	0.120
Nitrite (as N)	mg/L	< 0.010	< 0.010	< 0.010	< 0.010
Potassium	mg/L	0.54	0.68	0.53	0.90
Sodium	mg/L	7.2	8.7	5.6	18.8
Sulphate, dissolved	mg/L	60.4	62.3	51.4	95.6
Temperature	C	0.9	6.7	0.3	21.1
Total Dissolved Solids	mg/L	211	211	186	258
Total Organic Carbon	mg/L	1.1	1.3	0.8	2.6
Trihalomethanes	mg/L	0.007	0.008	0.003	0.031
Turbidity	NTU	0.07	0.06	0.03	0.10
UV Abs	UV Abs/M	2.3	1.9	0.9	4.6
Uranium	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Zinc	mg/L	< 0.003	0.003	< 0.003	0.015
pH	N/A	7.7	7.7	7.5	8.1

Bacteriological Data

<i>E. coli</i>	PA/100 mL	Absent	Absent	Absent
Total Coliforms	PA/100 mL	Absent	Absent	Absent