



WATER SERVICES
QUALITY ASSURANCE

WATER QUALITY 2005

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

July 2005

Parameters	Unit	Monthly Average	2005 Median	2005 Range		Approval Requirements
				Min	Max	
Aluminum	mg/L	0.026	0.022	0.011	0.084	<0.1
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.025
Cadmium	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.005
Calcium Hardness	mg/L (as CaCO ₃)	124	120	84	256	n/a
Chloride	mg/L	3.1	3.5	2.6	13.8	<250
Chromium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.05
Colour	TCU (Pt-Co)	1	1	1	1	<15
Conductivity	µS/cm	395	384	351	630	n/a
Copper	mg/L	0.002	0.001	<0.001	0.003	<1.0
<i>Cryptosporidium</i>	oocysts/100L	<0.1	<0.1	<0.1	<0.1	n/a
Fluoride	mg/L	0.79	0.79	0.73	0.85	0.70 - 0.90
<i>Giardia</i>	cysts/100L	<0.1	<0.1	<0.1	<0.1	n/a
Iron	mg/L	<0.003	<0.003	<0.003	0.005	<0.3
Lead	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.01
Manganese	mg/L	0.0006	0.0007	<0.0005	0.0470	<0.05
Mercury	mg/L	<0.0001	<0.0002	<0.0001	<0.0002	<0.001
Nitrate	mg/L (as N)	0.04	0.08	<0.01	0.33	<10.0
Nitrite	mg/L (as N)	<0.01	<0.01	0.01	<0.01	<1.0
Potassium	mg/L	0.9	0.8	0.6	5.6	n/a
Sodium	mg/L	16.8	15.1	7.1	25.6	<200
Sulphate	mg/L	70.4	69.7	56	205	<500
Total Alkalinity	mg/L (as CaCO ₃)	127	122	82	149	n/a
Total Dissolved Solids	mg/L	243	227	202	247	n/a
Total Hardness	mg/L (as CaCO ₃)	176	172	124	306	n/a
Total Organic Carbon	mg/L as C	2.3	1.8	0.5	4.1	n/a
Total Residual Chlorine	mg/L	2.02	1.93	1.58	2.14	0.5 - 2.5
Trihalomethanes	mg/L	0.026	0.014	0.001	0.032	<0.1
Turbidity	NTU	0.06	0.06	0.02	0.11	0.3
UV Abs (254 nm)	UV Abs/M	2.7	2	0.2	5.7	n/a
Uranium	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.02
Zinc	mg/L	0.0047	0.0037	<0.0005	0.0091	<5
pH	Units	7.7	7.8	7.3	8.0	6.5 - 8.5
Bacteriological Data						
<i>E.coli</i>	PA/100 mL	Absent	Absent	Absent	Absent	Absent
Total Coliforms	PA/100 mL	Absent	Absent	Absent	Absent	Absent

