

**2.1.2 SUMMARY OF MAJOR CHEMICALS, MICROBIOLOGICAL, AND PHYSICAL  
PARAMETERS OF EDMONTON DRINKING WATER PRODUCED  
AT WATER TREATMENT PLANTS**

December 2024

Parameter	Unit	Monthly Count	Monthly Average	YTD Median	YTD Min	YTD Max	YTD Count
Alkalinity Total	mg CaCO <sub>3</sub> /L	61	123	119	8	143	725
Aluminum	mg/L	2	0.083	0.071	0.023	0.125	24
Arsenic	mg/L	2	0.0003	<0.0002	<0.0002	0.0003	24
Bromate Dissolved	mg/L	10	<0.003	<0.005	<0.005	<0.005	106
Bromodichloromethane	ug/L	61	0.7	1.0	<0.5	2.6	718
Cadmium	mg/L	2	<0.0002	<0.0002	<0.0002	<0.0002	24
Calcium Hardness	mg/L CaCO <sub>3</sub>	61	119	116	96	141	711
Chlorate Dissolved	mg/L	10	0.140	0.183	<0.100	0.332	106
Chloride Dissolved	mg/L	10	5.66	5.91	3.89	12.10	106
Chlorite Dissolved	mg/L	10	<0.16	<0.20	<0.20	<0.20	106
Chromium	mg/L	2	<0.0002	<0.0002	<0.0002	<0.0002	24
Colour	TCU	61	0.9	0.9	<0.5	1.9	725
Conductivity	µS/cm	9	387	393	342	453	105
Copper	mg/L	2	<0.0020	<0.0050	<0.0050	<0.0050	24
Cryptosporidium	oocysts/100L	2	<0.1	<0.1	<0.1	<0.1	32
Fluoride	mg/L	61	0.68	0.68	0.61	0.79	725
Giardia	cysts/100L	2	<0.1	<0.1	<0.1	<0.1	32
Haloacetic Acids, total (HAA5)	mg/L	2	0.0204	0.0202	0.0097	0.0471	24
Iron	mg/L	2	<0.0050	<0.0050	<0.0050	<0.0050	24
Manganese	mg/L	2	<0.0020	<0.0020	<0.0020	<0.0020	24
Mercury	mg/L	2	<0.0002	<0.0002	<0.0002	<0.0002	24
Nitrate (as N) Dissolved	mg/L	2	0.080	0.040	<0.010	0.170	98
Nitrite (as N) Dissolved	mg/L	2	<0.01	<0.01	<0.01	0.02	98
pH	N/A	61	8.0	7.9	7.5	8.3	726
Potassium	mg/L	2	0.90	0.80	0.60	1.10	24
Sodium	mg/L	2	8.13	9.90	6.70	18.90	24
Sulphate Dissolved	mg/L	10	62.7	71.1	59.3	95.1	106
Total Chlorine	mg/L	61	2.11	2.15	1.84	2.40	725
Total Dissolved Solids	mg/L	2	231	229	195	252	24
Total Hardness	mg/L CaCO <sub>3</sub>	61	181	177	145	218	711
Total Organic Carbon	mg/L C	10	1.0	1.4	<0.6	2.8	106
Trihalomethanes	mg/L	61	0.014	0.015	0.005	0.040	718
Turbidity	NTU	61	0.07	0.05	<0.04	0.22	725
Uranium	mg/L	2	0.0006	<0.0005	<0.0005	0.0006	24
Zinc	mg/L	2	<0.0050	<0.0050	<0.0050	<0.0050	24
<b>Bacteriological Data</b>							
Coliforms, total	PA/100mL	61	Absent	Absent	Absent	Absent	725
E. coli	PA/100mL	61	Absent	Absent	Absent	Absent	725