

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

September 2023

Parameter	Unit	Monthly Count	Monthly Average	YTD Median	YTD Min	YTD Max	YTD Count
Alkalinity Total	mg CaCO ₃ /L	60	113	115	89	162	546
Aluminum	mg/L	2	0.066	0.075	0.026	0.204	18
Arsenic	mg/L	2	0.0003	<0.0002	<0.0002	0.0003	18
Bromate Dissolved	mg/L	8	<0.005	<0.005	<0.005	<0.005	78
Bromodichloromethane	µg/L	60	<0.5	<0.5	<0.5	<0.5	546
Cadmium	mg/L	2	<0.0002	<0.0002	<0.0002	<0.0002	18
Calcium Hardness	mg/L CaCO ₃	60	110	112	87	150	546
Chlorate Dissolved	mg/L	8	0.167	0.130	0.060	0.270	78
Chloride Dissolved	mg/L	8	6.31	5.92	4.44	11.80	78
Chlorite Dissolved	mg/L	8	<0.01	<0.01	<0.01	<0.01	78
Chromium	mg/L	2	<0.0002	<0.0002	<0.0002	<0.0002	18
Colour	TCU	60	0.7	0.8	<0.5	1.8	546
Conductivity	µS/cm	8	373	375	335	458	78
Copper	mg/L	2	<0.0050	<0.0050	<0.0050	<0.0050	18
Cryptosporidium	oocysts/100L	4	<0.1	<0.1	<0.1	<0.1	20
Fluoride	mg/L	60	0.70	0.69	0.58	0.78	546
Giardia	cysts/100L	4	<0.1	<0.1	<0.1	<0.1	20
Iron	mg/L	2	<0.0050	<0.0050	<0.0050	<0.0050	18
Lead	mg/L	2	<0.0002	<0.0002	<0.0002	<0.0002	18
Manganese	mg/L	2	<0.0020	<0.0020	<0.0020	<0.0020	18
Mercury	mg/L	2	<0.0002	<0.0002	<0.0002	<0.0002	18
Nitrate (as N) Dissolved	mg/L	8	<0.010	0.050	<0.010	0.149	78
Nitrite (as N) Dissolved	mg/L	8	<0.01	<0.01	<0.01	<0.01	78
pH	N/A	60	7.9	7.8	7.1	8.4	546
Potassium	mg/L	2	0.84	0.75	0.70	0.90	18
Sodium	mg/L	2	11.38	8.85	5.90	19.20	18
Sulphate Dissolved	mg/L	8	67.2	64.7	52.8	115.0	78
Total Chlorine	N/A	62	2.30	2.07	1.79	2.60	548
Total Dissolved Solids	mg/L	2	218	217	190	252	18
Total Hardness	mg/L CaCO ₃	60	167	169	101	198	546
Total Organic Carbon	mg/L C	8	1.5	1.4	<0.6	3.2	78
Trihalomethanes	mg/L	60	0.020	0.015	0.002	0.038	546
Turbidity	NTU	62	0.04	0.05	<0.04	0.10	548
Uranium	mg/L	2	<0.0005	<0.0005	<0.0005	0.0006	18
Zinc	mg/L	2	<0.0050	<0.0050	<0.0050	<0.0050	18
Bacteriological Data							
Coliforms, total	PA/100mL	62	Absent	Absent	Absent	Absent	548
E. coli	PA/100mL	62	Absent	Absent	Absent	Absent	548