

2.1.1 SUMMARY OF PARAMETERS FOR EDMONTON DRINKING WATER

Water Treatment Plants

March 2025



Parameter (Units)	#	Mean	Range	YTD #	YTD Mean	YTD Range
Alkalinity total (mg CaCO ₃ /L)	61	114.3	97.0 - 129.0	179	121.1	97.0 - 139.0
Aluminum (mg/L)	2	0.031	0.025 - 0.037	6	0.065	0.025 - 0.087
Arsenic (mg/L)	2	<0.0002	<0.0002	6	<0.0002	<0.0002
Bromate Dissolved (mg/L)	8	<0.005	<0.005	24	<0.005	<0.003 - <0.005
Bromodichloromethane (µg/L)	62	0.9	<0.5 - 1.8	180	0.8	<0.5 - 1.8
Cadmium (mg/L)	2	<0.00002	<0.00002	6	<0.00002	<0.00002
Calcium Hardness (mg/L CaCO ₃)	60	116.0	106.0 - 126.0	174	119.6	105.0 - 136.0
Chlorate Dissolved (mg/L)	8	0.17	0.07 - 0.37	24	0.16	<0.1 - 0.37
Chloride Dissolved (mg/L)	8	8.8	5.7 - 14.2	24	6.59	4.59 - 14.20
Chlorine total (mg/L)	62	2.08	1.89 - 2.19	180	2.08	1.89 - 2.19
Chlorite Dissolved (mg/L)	8	<0.005	<0.005	24	<0.2	<0.005 - <0.2
Chloroform (µg/L)	62	5.6	3.5 - 9.0	180	8.6	3.5 - 19.1
Chromium (mg/L)	2	<0.0002	<0.0002	6	<0.0002	<0.0002
Colour (TCU)	62	0.7	<0.5 - 1.0	180	0.9	<0.5 - 1.7
Conductivity (µS/cm)	8	414.5	395.0 - 442.0	24	398.8	362.0 - 442.0
Copper (mg/L)	2	<0.002	<0.002	6	<0.002	<0.002
Cryptosporidium (oocysts/100L)	2	<0.1	<0.09	6	<0.1	<0.09 - <0.1
Fluoride (mg/L)	61	0.67	0.59 - 0.75	179	0.67	0.59 - 0.75
Giardia (cysts/100L)	2	<0.1	<0.09	6	<0.1	<0.09 - <0.1
Haloacetic acids total (HAA5) (µg/L)	2	9.5	7.8 - 11.1	6	13.5	7.8 - 21.8
Iron (mg/L)	2	<0.005	<0.005	6	<0.005	<0.005
Manganese (mg/L)	2	<0.002	<0.002	6	<0.002	<0.002
Mercury (µg/L)				2	<0.0050	<0.0050
Mercury (mg/L)	2	<0.0002	<0.0002	6	<0.0002	<0.0002
Nitrate (as N) dissolved (mg/L)	8	0.12	0.10 - 0.18	22	0.10	0.08 - 0.18
Nitrite (as N) dissolved (mg/L)	8	0.01	<0.01	22	0.01	<0.01 - 0.01
Nitrosodimethylamine, N- [NDMA] (µg/L)	2	<0.0009	<0.0009	6	<0.0018	<0.0009 - <0.0018
pH	61	8	8	179	8	8
Potassium (mg/L)	2	0.9	0.9	6	0.8	0.6 - 0.9
Sodium (mg/L)	2	14.2	12.3 - 16.1	6	9.5	6.3 - 16.1
Sulphate Dissolved (mg/L)	8	77.4	74.4 - 82.1	24	69.5	59.3 - 82.1
Total Dissolved Solids (mg/L)	2	144.00	52.00 - 236.00	6	200.17	52.00 - 257.00
Total Hardness (mg/L CaCO ₃)	62	176.8	162.0 - 190.0	180	181.8	161.0 - 212.0
Total Organic Carbon (mg/L)	8	1.1	0.8 - 1.5	24	1.1	0.8 - 1.6
Trihalomethanes (µg/L)	62	6.6	4.3 - 10.2	180	9.6	4.3 - 19.8
Turbidity (NTU)	62	0.05	<0.04 - 0.10	180	0.05	<0.04 - 0.52
Uranium (mg/L)	2	<0.0005	<0.0005	6	0.0005	<0.0005 - 0.0006
Zinc (mg/L)	2	<0.005	<0.005	6	<0.005	<0.005