

2.1.1 SUMMARY OF PARAMETERS FOR EDMONTON DRINKING WATER

Water Treatment Plants

April 2025



Parameter (Units)	#	Mean	Range	YTD #	YTD Mean	YTD Range
Alkalinity total (mg CaCO ₃ /L)	60	104.5	81.0 - 119.0	239	117.0	81.0 - 139.0
Aluminum (mg/L)	2	0.021	0.021	8	0.054	0.021 - 0.087
Arsenic (mg/L)	2	<0.0002	<0.0002	8	0.0002	<0.0002
Bromate Dissolved (mg/L)	10	<0.005	<0.005	34	<0.005	<0.003 - <0.005
Bromodichloromethane (µg/L)	60	0.8	<0.5 - 1.4	240	0.8	<0.5 - 1.8
Cadmium (mg/L)	2	<0.00002	<0.00002	8	<0.00002	<0.00002
Calcium Hardness (mg/L CaCO ₃)	58	107.5	90.0 - 119.0	232	116.6	90.0 - 136.0
Chlorate Dissolved (mg/L)	10	0.19	0.08 - 0.31	34	0.17	<0.1 - 0.37
Chloride Dissolved (mg/L)	10	7.1	5.1 - 10.0	34	6.75	4.59 - 14.20
Chlorine total (mg/L)	60	2.09	1.90 - 2.19	240	2.08	1.89 - 2.19
Chlorite Dissolved (mg/L)	10	<0.005	<0.005	34	<0.2	<0.005 - <0.2
Chloroform (µg/L)	60	8.5	4.3 - 21.5	240	8.6	3.5 - 21.5
Chromium (mg/L)	2	<0.0002	<0.0002	8	0.0002	<0.0002
Colour (TCU)	60	0.8	<0.5 - 1.3	240	0.8	<0.5 - 1.7
Conductivity (µS/cm)	10	384.7	358.0 - 406.0	34	394.6	358.0 - 442.0
Copper (mg/L)	2	<0.002	<0.002	8	<0.002	<0.002
Cryptosporidium (oocysts/100L)	2	<0.1	<0.1	8	<0.1	<0.09 - <0.1
Fluoride (mg/L)	60	0.69	0.62 - 0.78	239	0.68	0.59 - 0.78
Giardia (cysts/100L)	2	<0.1	<0.1	8	<0.1	<0.09 - <0.1
Haloacetic acids total (HAA5) (µg/L)	2	10.5	9.7 - 11.3	8	12.7	7.8 - 21.8
Iron (mg/L)	2	<0.005	<0.005	8	<0.005	<0.005
Manganese (mg/L)	2	<0.002	<0.002	8	<0.002	<0.002
Mercury (µg/L)	2	<0.0050	<0.0050	4	<0.0050	<0.0050
Mercury (mg/L)	2	<0.0002	<0.0002	8	0.0002	<0.0002
Nitrate (as N) dissolved (mg/L)	10	0.09	0.02 - 0.15	32	0.10	0.02 - 0.18
Nitrite (as N) dissolved (mg/L)	10	0.01	<0.01	32	0.01	<0.01 - 0.01
Nitrosodimethylamine, N- [NDMA] (µg/L)	2	0.00124	<0.00108 - 0.00140	8	<0.0018	<0.0009 - <0.0018
pH	60	8	8	239	8	8
Potassium (mg/L)	2	1.9	1.8 - 1.9	8	1.1	0.6 - 1.9
Sodium (mg/L)	2	15.9	14.8 - 17.0	8	11.1	6.3 - 17.0
Sulphate Dissolved (mg/L)	10	74.2	65.3 - 83.9	34	70.9	59.3 - 83.9
Total Dissolved Solids (mg/L)	2	222.50	222.00 - 223.00	8	205.75	52.00 - 257.00
Total Hardness (mg/L CaCO ₃)	60	160.5	131.0 - 178.0	240	176.5	131.0 - 212.0
Total Organic Carbon (mg/L)	10	1.4	1.1 - 1.9	34	1.2	0.8 - 1.9
Trihalomethanes (µg/L)	60	9.3	5.2 - 22.9	240	9.6	4.3 - 22.9
Turbidity (NTU)	60	0.05	<0.04 - 0.09	240	0.05	<0.04 - 0.52
Uranium (mg/L)	2	<0.0005	<0.0005	8	0.0005	<0.0005 - 0.0006
Zinc (mg/L)	2	<0.005	<0.005	8	<0.005	<0.005