

Calgary 🎕		Janua	ary 1, 202	3 to Decem	ber 31, 2023	-
		Glenmore Treated Water (Entering the Distribution System)			Maximum Acceptable Concentration or	
PARAMETER	UNITS	Minimum Maximum Average		Guideline ¹	Common Source	
Alkalinity, Total	mg/L as CaCO ₃	116	175	142	No Guidelines	Erosion of natural deposits in watershed.
Aluminum	mg/L	0.034	0.124	0.067	0.100 (O) (Annual Average)	Water treatment process
Ammonia	mg/L as N	<0.05		No Guidelines	Naturally occurring; released from agricultural or industrial wastes.	
Antimony	mg/L	<0.0005			0.006	Erosion of natural deposits in watershed
Arsenic	mg/L	<0.0005		0.010	Erosion of natural deposits in watershed	
Atrazine + metabolites	mg/L		<0.0010		0.005	Leaching and/or runoff from agricultural or rural use
Barium	mg/L	0.059	0.083	0.070	2.0	Erosion of natural deposits in watershed
Benzene	mg/L	<0.0005		0.005	Releases or spills from industrial use	
Benzo[a]pyrene	mg/L		<0.000005		0.00004	Distribution System materials
Beryllium	mg/L		<0.0005		No Guidelines	Contamination from ceramic applications and manufacturing of aerospace, electronics and mechanical industries
Bicarbonate	mg/L as $CaCO_3$	116	175	142	No Guidelines	Erosion of natural deposits in watershed
Boron	mg/L	<0.002	0.012	0.008	5	Naturally occurring; leaching or runoff from industrial use
Bromate	mg/L		<0.0095		0.01	Possible contamination in hypochlorite solution
Bromoxynil	mg/L		<0.0001		0.005	Leaching and/or runoff from agricultural or rural use
Cadmium	mg/L		<0.0005		0.007	Erosion of natural deposits in watershed
Calcium	mg/L	45	69	57	No Guidelines	Erosion of natural deposits in watershed
Carbonate	mg/L as CaCO ₃		<20		No Guidelines	Erosion of natural deposits in watershed
Carbon Tetrachloride	mg/L		<0.0005		0.002	Industrial effluents and leaching from hazardous waste sites
Chlorate	mg/L	4.5	<0.10	107	1	Possible contamination in hypochlorite solution
Chloride	mg/L	4.5	24.7	10.7	250 (A)	Naturally occurring, dissolved salt deposits, highway salt
Chlorine, free	mg/L	0.85	1.33	1.05	No Guidelines	Water treatment process Possible contamination in hypochlorite solution, water treatment
Chlorite	mg/L	<0.10			1	process
Chlorpyrifos	mg/L	<0.0010		0.09	Leaching and/or runoff from agricultural or rural use	
Chromium	mg/L	<0.0005		0.05	Erosion of natural deposits in watershed	
Cobalt	mg/L	<0.0005		No Guidelines	Erosion of natural deposits in watershed.	
Coliforms, E.coli	MPN/100mL MPN/100mL	<1 <1		0	Domestic animals, wildlife and human waste.	
Coliforms, Total Color	TCU		<2		15 (A)	Soil, domestic animals and wildlife. Erosion of natural deposits in watershed.
Conductivity at 25°C	uS/cm	390	543	451	No Guidelines	Leaching and/or runoff from agricultural or rural use
Copper	mg/L	<0.0005	0.0006	<0.0005	2 1 (A)	Erosion of natural deposits in watershed.
Cryptosporidium	oocysts/100L		Not Tested		No Guidelines ²	Domestic animals, wildlife and human waste.
Cryptosporidium, Log Reduction Ratio ³	no units	1.33	1.33	1.33	>=1	Domestic animals, wildlife and human waste.
Cyanide	mg/L		<0.0005		0.2	Industrial and mining effluents; Release from organic compounds.
y Cyanobacterial toxins – total microcystin	mg/L	<0.00010		0.0015	Naturally occurring; released from blooms of blue-green algae	
	-					
Diazinon	mg/L		<0.0010		0.02	Run off from agricultural or other uses.
Dicamba	mg/L		<0.0004		0.11	Leaching and/or runoff from agricultural or rural use
1,2-Dichlorobenzene	mg/L		<0.0005		0.2 0.003(A)	Releases or spills from industrial use
1,4-Dichlorobenzene	mg/L		<0.0005		0.005 0.001(A)	Releases or spills from industrial use
1,1-Dichloroethylene	mg/L	<0.0005			0.014	Releases or spills from industrial use
1,2-Dichloroethane	mg/L	<0.0005			0.005	Releases or spills from industrial use
Dichloromethane	mg/L	<0.0005			0.05	Industrial and municipal wastewater discharges
2,4-Dichlorophenol	mg/L	<0.0002			0.9 0.0003(A)	By-product of chlorination.
2,4-D	mg/L	<0.0001			0.1	Leaching and/or runoff from use as a weed controller
Diclofop-methyl	mg/L		<0.00090		0.009	Leaching and/or runoff from use as a weed controller
Sum of Dimethoate	mg/L		<0.0050		0.02	Leaching and/or runoff from agricultural or rural use
1,4-Dioxane	mg/L		<0.0010		0.05	Releases or spills from landfills and industrial use
Diquat	mg/L		<0.0070		0.05	Leaching and/or runoff from agricultural or rural use
Diuron	mg/L		<0.00005		0.15	Leaching and/or runoff from use in controlling vegetation
Ethylbenzene	mg/L		<0.0005		0.0016 (A)	Emissions, effluents or spills from petroleum and chemical industries
Fluoride	mg/L	0.21	0.28	0.24	1.5	Erosion of natural deposits in watershed. ⁴



Calgary			ore Treated V		ber 31, 2023 Maximum	
		(Entering the Distribution System)			Acceptable Concentration or	
PARAMETER	UNITS	Minimum	Maximum	Average	Guideline ¹	Common Source
Giardia	cysts/100L		Not Tested		No Guidelines ²	Domestic animals, wildlife and human waste.
Giardia, Log Reduction Ratio ³	no units	2.00	2.33	2.32	>=1	Domestic animals, wildlife and human waste.
Glyphosate	mg/L		<0.010		0.28	Leaching and/or runoff from use as a weed controller.
Gross Alpha	Bq/L	<0.11	<0.21	<0.11	0.5	Naturally occurring; emissions from nuclear reactors
Gross Beta	Bq/L	<0.09	0.09	<0.09	1.0	Naturally occurring; emissions from nuclear reactors
Haloacetic Acids, Total	mg/L	0.0045	0.0224	0.0137	0.08 (Annual Average)	By-product of chlorination.
Hardness	mg/L as CaCO ₃	181	262	217	No Guidelines	Erosion of natural deposits in watershed.
Iron	mg/L		<0.010		0.3 (A)	Erosion of natural deposits in watershed.
Lead	mg/L	<0.0005			0.005	Leaching from plumbing (pipes, solders, brass fittings, and lead service lines)
Lithium	mg/L	0.0030	0.0052	0.0043	No Guidelines	Releases or spills from industrial use
Magnesium	mg/L	13.9	21.7	18.4	No Guidelines	Erosion of natural deposits in watershed.
Malathion	mg/L		<0.0010	-	0.19	Leaching and/or runoff from agricultural or rural use
Manganese	mg/L	<0.0005	0.0012	<0.0005	0.12 0.02 (A)	Erosion of natural deposits in watershed.
MCPA (2-methyl-4-chlorophenoxyacetic acid)	mg/L		<0.00003		0.35	Leaching and/or runoff from agricultural and other uses
MCPP (methylchlorophenoxy propionic	mg/L		<0.00005		0.015 (A)	Leaching and/or runoff from agricultural and other uses
acid) Mercury	mg/L		<0.0000019		0.001	Erosion of natural deposits in watershed
Metolachlor	mg/L		< 0.0010		0.05	Leaching and/or runoff from agricultural and other uses
Metribuzin	mg/L		<0.0010		0.08	Leaching and/or runoff from agricultural or rural use
Molybdenum	mg/L	0.0005	0.0008	0.0007	No Guidelines	Leaching and/or runoff from industrial, agricultural and other uses
Monochlorobenzene	mg/L	<0.0005		0.08 0.03(A)	Releases or spills from industrial effluents	
MTBE (methyl tertiary-butyl ether)	mg/L	<0.0005			0.03(A) 0.015 (A)	Spills from gasoline refineries, filling stations and gasoline powered
Nickel	mg/L	<0.0005		No Guidelines	boats; seepage into groundwater from leaking storage tanks	
Nitrate	mg/L as N	<0.005	0.191	0.052	10	Leaching from plumbing (pipes, solders, and brass fittings) Erosion of natural deposits in watershed
Nitrite	mg/L as N	<0.005	<0.005	0.052	10	Erosion of natural deposits in watershed
Nitrilotriacetic acid (NTA)	mg/L		<0.050			
		<0.01			0.4	Sewage contamination
Nitrogen-Phosphorus Pesticides, Total ⁵	mg/L				0.4 No Guidelines	Sewage contamination Leaching and/or runoff from agricultural or rural use
Nitrogen-Phosphorus Pesticides, Total ⁵	mg/L		<0.01		No Guidelines	
Nitrogen-Phosphorus Pesticides, Total ⁵ N-Nitrosodimethylamine (NDMA)	mg/L mg/L		<0.01 <0.0000020		No Guidelines 0.00004	Leaching and/or runoff from agricultural or rural use By-product of chlorination; industrial and sewage treatment plant effluents
Nitrogen-Phosphorus Pesticides, Total ⁵ N-Nitrosodimethylamine (NDMA) Nitrogen, total (TKN)	mg/L mg/L mg/L	<0.10	<0.01 <0.0000020 0.37	<0.10	No Guidelines 0.00004 No Guidelines	Leaching and/or runoff from agricultural or rural use By-product of chlorination; industrial and sewage treatment plant effluents Erosion of natural deposits in watershed
Nitrogen-Phosphorus Pesticides, Total ⁵ N-Nitrosodimethylamine (NDMA)	mg/L mg/L		<0.01 <0.0000020	<0.10 9.7	No Guidelines 0.00004 No Guidelines Inoffensive	Leaching and/or runoff from agricultural or rural use By-product of chlorination; industrial and sewage treatment plant effluents
Nitrogen-Phosphorus Pesticides, Total ⁵ N-Nitrosodimethylamine (NDMA) Nitrogen, total (TKN)	mg/L mg/L mg/L	<0.10	<0.01 <0.0000020 0.37		No Guidelines 0.00004 No Guidelines	Leaching and/or runoff from agricultural or rural use By-product of chlorination; industrial and sewage treatment plant effluents Erosion of natural deposits in watershed Biological, industrial, or treatment disinfection sources By-product of chlorination
Nitrogen-Phosphorus Pesticides, Total ⁵ N-Nitrosodimethylamine (NDMA) Nitrogen, total (TKN) Odour	mg/L mg/L mg/L Scale = 0-12	<0.10 5.0	<0.01 <0.0000020 0.37 11.5		No Guidelines 0.00004 No Guidelines Inoffensive 0.06	Leaching and/or runoff from agricultural or rural use By-product of chlorination; industrial and sewage treatment plant effluents Erosion of natural deposits in watershed Biological, industrial, or treatment disinfection sources
Nitrogen-Phosphorus Pesticides, Total ⁵ N-Nitrosodimethylamine (NDMA) Nitrogen, total (TKN) Odour Pentachlorophenol	mg/L mg/L mg/L Scale = 0-12 mg/L	<0.10 5.0	<0.01 <0.0000020 0.37 11.5 <0.0001		No Guidelines 0.00004 No Guidelines Inoffensive 0.06 0.03 (A)	Leaching and/or runoff from agricultural or rural use By-product of chlorination; industrial and sewage treatment plant effluents Erosion of natural deposits in watershed Biological, industrial, or treatment disinfection sources By-product of chlorination Synthetic chemical used in consumer products and fire-fighting foams
Nitrogen-Phosphorus Pesticides, Total ⁵ N-Nitrosodimethylamine (NDMA) Nitrogen, total (TKN) Odour Pentachlorophenol Perfluorooctane Sulfonate (PFOS)	mg/L mg/L <u>mg/L</u> Scale = 0-12 mg/L mg/L	<0.10 5.0	<0.01 <0.0000020 0.37 11.5 <0.0001 <0.00020		No Guidelines 0.00004 No Guidelines Inoffensive 0.06 0.03 (A) 0.0006	Leaching and/or runoff from agricultural or rural use By-product of chlorination; industrial and sewage treatment plant effluents Erosion of natural deposits in watershed Biological, industrial, or treatment disinfection sources By-product of chlorination Synthetic chemical used in consumer products and fire-fighting foams for their water and oil repellant properties. Synthetic chemical used in consumer products and fire-fighting foams for their water and oil repellant properties. Influenced by the dissolved minerals in the water, temperature and
Nitrogen-Phosphorus Pesticides, Total ^S N-Nitrosodimethylamine (NDMA) Nitrogen, total (TKN) Odour Pentachlorophenol Perfluorooctane Sulfonate (PFOS) Perfluorooactanoic Acid (PFOA) pH	mg/L mg/L Scale = 0-12 mg/L mg/L mg/L pH units	<0.10 5.0	<0.01 <0.0000020 0.37 11.5 <0.0001 <0.000020 <0.000010	9.7	No Guidelines 0.00004 No Guidelines Inoffensive 0.06 0.03 (A) 0.0006 0.0002	Leaching and/or runoff from agricultural or rural use By-product of chlorination; industrial and sewage treatment plant effluents Erosion of natural deposits in watershed Biological, industrial, or treatment disinfection sources By-product of chlorination Synthetic chemical used in consumer products and fire-fighting foams for their water and oil repellant properties. Synthetic chemical used in consumer products and fire-fighting foams for their water and oil repellant properties. Influenced by the dissolved minerals in the water, temperature and water treatment processes.
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Nitrogen-Phosphorus Pesticides, Total ⁵ N-Nitrosodimethylamine (NDMA) Nitrogen, total (TKN) Odour Pentachlorophenol Perfluorooctane Sulfonate (PFOS) Perfluorooactanoic Acid (PFOA) pH Phosphorus, Total Picloram Potassium	mg/L mg/L Scale = 0-12 mg/L mg/L mg/L pH units mg/L mg/L mg/L	<0.10 5.0 7.3 0.001	<0.01 <0.0000020 0.37 11.5 <0.0001 <0.000020 <0.000010 7.8 0.008 <0.0002 1.1	9.7 7.5 0.004	No Guidelines 0.00004 No Guidelines Inoffensive 0.06 0.03 (A) 0.0006 0.0002 7.0 - 10.5 (O) No Guidelines 0.19 No Guidelines	Leaching and/or runoff from agricultural or rural use By-product of chlorination; industrial and sewage treatment plant effluents Erosion of natural deposits in watershed Biological, industrial, or treatment disinfection sources By-product of chlorination Synthetic chemical used in consumer products and fire-fighting foams for their water and oil repellant properties. Synthetic chemical used in consumer products and fire-fighting foams for their water and oil repellant properties. Influenced by the dissolved minerals in the water, temperature and water treatment processes. Leaching and/or runoff from agricultural and other uses Erosion of natural deposits in watershed. Industrial sources Naturally occurring (erosion and weathering of rocks and soils) and release from coal ash from coal-fired power plants and mining, refining
Nitrogen-Phosphorus Pesticides, Total ^S N-Nitrosodimethylamine (NDMA) Nitrogen, total (TKN) Odour Pentachlorophenol Perfluorooctane Sulfonate (PFOS) Perfluorooactanoic Acid (PFOA) pH Phosphorus, Total Picloram Potassium Polycyclic Aromatic Hydrocarbons ⁶ (PAH) Selenium	mg/L mg/L Scale = 0-12 mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	<0.10 5.0 7.3 0.001 	<0.01 <0.0000020 0.37 11.5 <0.0001 <0.000020 <0.000010 7.8 0.008 <0.0002 1.1 <0.0001 0.0008	9.7 7.5 0.004 0.9 <0.0005	No Guidelines 0.00004 No Guidelines Inoffensive 0.06 0.03 (A) 0.0006 0.0002 7.0 - 10.5 (O) No Guidelines 0.19 No Guidelines No Guidelines 0.05	Leaching and/or runoff from agricultural or rural use By-product of chlorination; industrial and sewage treatment plant effluents Erosion of natural deposits in watershed Biological, industrial, or treatment disinfection sources By-product of chlorination Synthetic chemical used in consumer products and fire-fighting foams for their water and oil repellant properties. Synthetic chemical used in consumer products and fire-fighting foams for their water and oil repellant properties. Influenced by the dissolved minerals in the water, temperature and water treatment processes. Leaching and/or runoff from agricultural and other uses Erosion of natural deposits in watershed. Industrial sources Naturally occurring (erosion and weathering of rocks and soils) and release from coal ash from coal-fired power plants and mining, refining of copper and other metals
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Nitrogen-Phosphorus Pesticides, Total ⁵ N-Nitrosodimethylamine (NDMA) Nitrogen, total (TKN) Odour Pentachlorophenol Perfluorooctane Sulfonate (PFOS) Perfluorooactanoic Acid (PFOA) pH Phosphorus, Total Picloram Potassium Polycyclic Aromatic Hydrocarbons ⁶ (PAH) Selenium Silicon, dissolved Silver Simazine	mg/L mg/L Scale = 0-12 mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	<0.10 5.0 7.3 0.001 0.7 <0.0005 1.13 <0.001	<0.01 <0.0000020 0.37 11.5 <0.0001 <0.000020 <0.000010 7.8 0.0008 <0.0002 1.1 <0.0001 0.0008 2.02 0.001 <0.0010	9.7 7.5 0.004 0.9 <0.0005 1.65 <0.001	No Guidelines 0.00004 No Guidelines Inoffensive 0.06 0.03 (A) 0.0006 0.0002 7.0 - 10.5 (O) No Guidelines 0.19 No Guidelines No Guidelines 0.05 No Guidelines No Guidelines 0.05	Leaching and/or runoff from agricultural or rural use By-product of chlorination; industrial and sewage treatment plant effluents Erosion of natural deposits in watershed Biological, industrial, or treatment disinfection sources By-product of chlorination Synthetic chemical used in consumer products and fire-fighting foams for their water and oil repellant properties. Synthetic chemical used in consumer products and fire-fighting foams for their water and oil repellant properties. Influenced by the dissolved minerals in the water, temperature and water treatment processes. Leaching and/or runoff from agricultural and other uses Erosion of natural deposits in watershed. Industrial sources Naturally occurring (erosion and weathering of rocks and soils) and release from coal ash from coal-fired power plants and mining, refining of copper and other metals Erosion of natural deposits in watershed. Naturally occurring (erosion and weathering of rocks and soils) Leaching and/or runoff from agricultural and other uses Erosion of natural deposits in watershed.
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Calgary (Janua	ary 1, 202.	3 to Decem	1ber 31, 2023	_
				Water on System)	Maximum Acceptable Concentration or Guideline ¹	Common Source
PARAMETER	UNITS	Minimum Maximum Average				
Taste	mg/L	Not Tested		Inoffensive (A)	Biological or industrial sources	
Temperature	°C	4.2	22.0	11.7	15 (A)	Surface water temperature.
Terbufos	mg/L	<0.0005			0.001	Leaching and/or runoff from agricultural and other uses
Tetrachloroethylene	mg/L	<0.0005			0.01	Industrial effluents or spills
2,3,4,6-Tetrachlorophenol	mg/L	<0.0005			0.1	By-product of chlorination; industrial effluents and use of pesticides
Thallium	mg/L	<0.0005			No Guidelines	Erosion of natural deposits in watershed.
Tin	mg/L		<0.0005		No Guidelines	Industrial effluents or spills
Titanium	mg/L	<0.0005			No Guidelines	Industrial effluents or spills
Toluene	mg/L	<0.0005			0.06 0.024(A)	Emissions, effluents or spills from petroleum and chemical industries
Total Dissolved Solids	mg/L	233	334	271	500 (A)	Erosion of natural deposits in watershed.
Total Organic Carbon	mg/L	0.5	1.7	1.0	No Guidelines	Erosion of natural deposits in watershed.
Trichloroethylene	mg/L	<0.0005		0.005	Industrial effluents and spills from improper disposals	
2,4,6-Trichlorophenol	mg/L	<0.0005			0.005 0.002 (A)	By-product of chlorination; industrial effluents and spills
Trifluralin	mg/L		<0.0010		0.045	Runoff from agricultural uses
Total Trihalomethanes ⁷ (TTHMs)	mg/L	0.0042	0.0298	0.0131	0.1 (Annual Average)	By-product of chlorination.
Turbidity	NTU	<0.05	0.09	<0.05	1.0	Suspended particles in solution.
Uranium	mg/L	<0.0005	0.0006	<0.0005	0.02	Industrial effluents or spills
Vanadium	mg/L		<0.0005		No Guideline	Naturally occurring (erosion and weathering of rocks and soils)
Vinyl Chloride	mg/L	<0.0005			0.002	Industrial effluents; degradation product from organic solvents in groundwater; leaching from polyvinyl chloride pipes
Virus, Log Reduction Ratio ³	no units	1.5			>=1	Domestic animals, wildlife and human waste.
Xylenes, total ⁷	mg/L	<0.0010			0.09 0.02 (A)	Emissions, effluents or spills from petroleum and chemical industries
Zinc	mg/L	<0.003 0.017 <0.003		5.0 (A)	Erosion of natural deposits in watershed. Leaching may occur from galvanized pipes, hot water tanks and brass fittings.	

Legend

¹ Maximum acceptable concentrations and guidelines as determined by Health Canada and the Alberta Environment and Protected Areas license to operate

 $^{\rm 2}$ Raw water enteric protozoa concentrations are used to determine the log reduction required

 $^{\rm 3}$ Log Redution Ratios are calucated by the minimum total log recution achieved / log reduction required

 $^{\rm 4}$ The City of Calgary ceased fluoridation of its drinking water on May 19, 2011

⁵ Total concentration calculated based on 13 Nitrogen-Phosphorus regulated pesticides

⁶ Total concentration calculated based on EPA 16 Priority PAH compounds

⁷ Calculated parameter based on individual analytes

(O) Operating guidance as determined by Health Canada

(A) Aesthetic Objective as determined by Health Canada

(AEPA) Alberta Environment and Parks provincial guidance

< Indicates not detected above the specified value

Bq/L = Becquerel per litre

mg/L = milligrams per litre, or parts per million (ppm)

MPN = Most-Probable Number

NTU = Nephelometric Turbidity Units

TCU = True Colour Units

Information Sources

Health Canada Guidelines for Canadian Drinking Water Health Canada Water Quality - Reports and Publications Alberta Environment & Protected Areas



		Glenmore Treated Water (Entering the Distribution System)			Maximum Acceptable Concentration or	
PARAMETER	UNITS	Minimum	Maximum	Average	Guideline ¹	Common Source