



2025 Balzac Water Treatment Plant Summary

January 1, 2025 to December 31, 2025 Analysis isn't completed until the end of the calendar year

Balzac Treated Water (Entering the Distribution System)

Parameter	Units	Balzac Treated Water (Entering the Distribution System)			Maximum Acceptable Concentration or Guideline ¹	Common Source
		Winter	Summer	Average		
Aluminum	mg/L	0.0118	0.0245	0.0182	< 0.100 (O) Annual Avg	Naturally occurring and plant treatment process chemicals
Ammonia	mg/L as N	0.0056	<0.005	0.0056	No Guidelines	Naturally occurring; released agricultural or industrial wastes
Antimony	mg/L	0.00012	0.00013	0.0001	0.006	Erosion of natural deposits in watershed
Arsenic	mg/L	0.00033	0.00050	0.0004	0.01	Erosion of natural deposits in watershed
Atrazine + Metabolites	mg/L	<0.0001	<0.0001	<0.0001	0.005	Leaching and/or runoff from agricultural use
Barium	mg/L	0.0572	0.0534	0.0553	2	Erosion of natural deposits in watershed
Benzene	mg/L	<0.0005	<0.0005	<0.0005	0.005	Releases or spills from industrial use
Benzo(a)pyrene	mg/L	<0.000005	<0.000005	<0.000005	0.00004	Distribution system materials
Boron	mg/L	0.012	0.016	0.014	5	Naturally occurring; leaching or runoff from industrial use
Bromate	mg/L	0.00060	0.00065	0.00063	0.01	Possible contamination in hypochlorite solution
Bromoxynil	mg/L	<0.00005	<0.00005	<0.00005	0.005	Leaching and/or runoff from agricultural use
Cadmium	mg/L	<0.000005	<0.000005	<0.000005	0.007	Erosion of natural deposits in watershed
Calcium	mg/L	44.1	45.2	44.7	No Guidelines	Erosion of natural deposits in watershed
Carbon Tetrachloride	mg/L	<0.0005	<0.0005	<0.0005	0.002	Industrial effluents and leaching from hazardous waste sites
Chloramines	mg/L	0.10	0.13	0.12	3	Formed in the presence of both chlorine and ammonia
Chlorate	mg/L	0.096	0.1	0.1	1	By-product of drinking water disinfection with chlorine dioxide
Chlorite	mg/L	<0.01	<0.01	<0.01	1	By-product of drinking water disinfection with chlorine dioxide
Chloride	mg/L	30.8	25.6	28.2	≤250 (A)	Naturally occurring, dissolved salt deposits, highway salt
Chlorpyrifos	mg/L	<0.0001	<0.0001	<0.0001	0.09	Leaching and/or runoff from agricultural use
Chromium	mg/L	<0.0005	<0.0005	<0.0005	0.05	Erosion of natural deposits in watershed
Colour	TCU	<5	<5	<5	15 (A)	Erosion of natural deposits in watershed
Coliforms, <i>E.Coli</i>	MPN/100mL	Absent	Absent	Absent	0	Domestic animals, wildlife, human waste
Coliforms, Total	MPN/100mL	Absent	Absent	Absent	0	Soil, domestic animals and wildlife
Copper	mg/L	0.00856	0.00919	0.00888	2, <1 (A)	Erosion of natural deposits in watershed
Cyanide	mg/L	<0.002	<0.002	<0.002	0.2	Industrial and mining effluents; Release from organic compounds
Cyanobacterial Toxins - As Microcystin, Total	mg/L	<0.00015	<0.00015	<0.00015	0.0015	Naturally occurring; released from blooms of blue-green algae
Dicamba	mg/L	<0.0001	<0.0001	<0.0001	0.12	Leaching and/or runoff from agricultural use
1,4-Dichlorobenzene	mg/L	<0.0005	<0.0005	<0.0005	0.005	Releases or spills from industrial use
1,2 Dichloroethane	mg/L	<0.0005	<0.0005	<0.0005	0.005	Releases or spills from industrial use
Dichloromethane	mg/L	<0.001	<0.001	<0.001	0.05	Industrial and municipal wastewater discharges
2,4 D (2,4-Dichlorophenoxy acetic acid)	mg/L	<0.00005	<0.00005	<0.00005	0.1	Leaching and/or runoff from use as a weed controller
Dimethoate	mg/L	<0.00005	<0.00005	<0.00005	0.02	Leaching and/or runoff from agricultural use
1,4-Dioxane	mg/L	-	-	-	0.05	Potential contamination from landfills and industrial sites
Diquat	mg/L	-	-	-	0.05	Leaching and/or runoff from agricultural use; added directly to water to control aquatic weeds
Ethylbenzene	mg/L	<0.0005	<0.0005	<0.0005	0.14	Emissions, effluents or spills from petroleum and chemical industries
Fluoride ²	mg/L	0.109	0.110	0.110	1.5	Erosion of natural deposits in watershed
Glyphosate	mg/L	<0.0005	<0.001	<0.001	0.28	Leaching and/or runoff from use as a weed controller
Haloacetic Acid, Total	mg/L	0.0083	0.0095	0.0089	0.08 Annual Avg	By-product of chlorination
Hardness, Total	mg/L as CaCO ₃	190	176	183	No Guidelines	Erosion of natural deposits in watershed
Iron	mg/L	0.011	<0.010	0.011	≤0.300 (A)	Erosion of natural deposits in watershed
Lead	mg/L	<0.00005	0.000066	0.000058	0.005	Leaching from plumbing (pipes, solder, brass fittings, lead service lines)
Magnesium	mg/L	19.7	19.9	19.80	No Guidelines	Erosion of natural deposits in watershed
Malathion	mg/L	<0.000025	<0.000025	<0.000025	0.19	Leaching and/or runoff from agricultural and other uses
Manganese	mg/L	0.00033	0.00032	0.000325	0.12, ≤0.02(A)	Erosion of natural deposits in watershed
Mercury	mg/L	<0.000005	<0.000005	<0.000005	0.001	Erosion of natural deposits in watershed
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	mg/L	<0.00005	<0.00005	<0.00005	0.35	Leaching and/or runoff from agricultural uses
Metribuzin	mg/L	<0.0001	<0.0001	<0.0001	0.08	Leaching and/or runoff from agricultural use
Nitrate	mg/L as N	0.054	0.021	0.0375	10 (as N)	Erosion of natural deposits in watershed
Nitrite	mg/L as N	<0.01	<0.01	<0.01	1 (as N)	Erosion of natural deposits in watershed
Nitritotriacetic Acid (NTA)	mg/L	<0.4	<0.4	<0.4	0.4	Sewage contamination
N-Nitrosodimethylamine (NDMA)	mg/L	-	-	-	0.00004	By-product of drinking water disinfection with chlorine or chloramines; industrial and sewage treatment plant effluents



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Pentachlorophenol	mg/L	<0.0005	<0.0005	<0.0005	0.06	By-product of chlorination
pH	pH units	8.06	8.04	8.05	7 - 10.5 (O)	Influenced by dissolved minerals in water, temp, and treatment process
Selenium	mg/L	0.000191	0.000331	0.000261	0.05	Naturally occurring (erosion and weathering of rocks and soils)
Silver	mg/L	<0.00001	<0.00001	<0.00001	No Guidelines	Naturally occurring (erosion and weathering of rocks and soils)
Sodium	mg/L	29.2	29.2	29.20	≤200 (A)	Erosion of natural deposits in watershed
Strontium	mg/L	-	-	-	7	Erosion of natural deposits in watershed
Sulphate	mg/L	85.5	88.0	86.8	≤500 (A)	Erosion of natural deposits in watershed
Sulphide	mg/L	0.0353	<0.0015	0.0184	≤0.05 (A)	Reduction of sulphates by sulphate-reducing bacteria; industrial wastes
Tetrachloroethylene	mg/L	<0.0005	<0.0005	<0.0005	0.01	Industrial effluents or spills
Toluene	mg/L	<0.0005	<0.0005	<0.0005	0.06	Emissions, effluents or spills from petroleum and chemical industries
Total Dissolved Solids	mg/L	288	293	291	500 (A)	Erosion of natural deposits in watershed
Total Organic Carbon	mg/L	2.41	2.54	2.48	No Guidelines	Erosion of natural deposits in watershed
Trichloroethylene	mg/L	<0.0005	<0.0005	<0.0005	0.005	Industrial effluents and spills from improper disposals
2,4,6-Trichlorophenol	mg/L	<0.0002	<0.0002	<0.0002	0.005	By-product of chlorination; industrial effluents and spills
Trihalomethanes, Total	mg/L	0.0439	0.0556	0.0498	0.1 Annual Avg	By-product of chlorination
Uranium	mg/L	0.000016	0.000035	0.000026	0.02	Industrial effluents or spills
Vinyl Chloride	mg/L	<0.0005	<0.0005	<0.0005	0.002	Industrial effluents; degradation product from organic solvents in groundwater; leaching from PVC pipes
Xylenes, Total	mg/L	<0.0005	<0.0005	<0.0005	0.09	Emissions, effluents or spills from petroleum and chemical industries
Zinc	mg/L	<0.003	<0.003	<0.003	≤5.000 (A)	Erosion of natural deposits in watershed/leaching from plumbing fixtures

Legend

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

² Fluoride is not added at this location

(O) Operating guidance as determined by Health Canada

(A) Aesthetic Objective as determined by Health Canada

(AEP) Alberta Environment and Parks provincial guideline

< Indicates not detected above the specified parameter (less than)

mg/L = milligrams per litre, or parts per million

TCU = True Colour Units

MPN = Most Probable Number

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Links

[Health Canada Guidelines for Canadian Drinking Water Quality, Summary Table \(March 2025\)](#)

[Health Canada Water Quality - Reports and Publications](#)

[Alberta Environment and Parks](#)