CITY OF Lethbridge

Water Treatment Plant

October Report 2026

Water Quality Summary

Acronyms

MAC = Maximum acceptable concentration established by Health Canada
AO = Aesthetic objective (no health based limit) suggested by Health Canada
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per litre or one part per million

Health Related

Parameter	Units	Result	MAC
Turbidity	NTU	0.064	0.3
Chloramines	mg/L	1.86	n/a[1]
Nitrate-N	mg/L	0.03	10
Fluoride	mg/L	0.78	1.5
Trihalomethanes	mg/L	0.043	0.1
Aluminum	mg/L	0.1250	2.9
Chromium	mg/L	< 0.0005	0.05
Lead	mg/L	< 0.0001	0.005
Manganese	mg/L	< 0.005	0.12

Non Health Related

Parameter	Units	Result	AO
pH		7.72	7.0 - 10.5
Hardness	mg/L	177	n/a[2]
TDS - total dissolved solids	mg/L	210	≤ 500
Sulfate	mg/L	45.1	≤ 500
Sodium	mg/L	13.7	≤ 200
Iron	mg/L	<0.01	≤ 0.3
Manganese	mg/L	< 0.005	≤ 0.02

[1] Guideline value not necessary due to low toxicity at concentrations found in drinking water. Chloramine residuals in most Canadian drinking water distribution systems are typically below 4 mg/L.

[2] Although hardness may have significant aesthetic effects, a guidline has not been established because public acceptance of hardness may vary considerably according to the local conditions; major contributor to hardness (calcium & magnesium) are not of direct public health concern

Treated Water - Distribution System

BACTERIOLOGICAL / SECONDARY DISINFECTION

	Oct 5/2026		Oct 13/2026		Oct 19/2026		Oct 27/2026	
	Sample Results		Sample Results		Sample Results		Sample Results	
	Cl_2	Bac T	Cl_2	Bac T	Cl_2	Bac T	Cl_2	Bac T
Sample 1 North Lethbridge			1.58	N	1.55	N		
Sample 2 North Lethbridge			1.24	N			1.58	N
Sample 3 North Lethbridge	1.31	N	1.42	N	1.47	N	1.46	N
Sample 4 North Lethbridge								
Sample 5 North Lethbridge					1.33	N		
Sample 6 North Lethbridge	1.41	N	1.49	N	1.51	N		
Sample 7 North Lethbridge	1.51	N	1.36	N			1.57	N
Sample 8 North Lethbridge								
Sample 9 North Lethbridge	0.80	N						
Sample 10 North Lethbridge					1.59	N	1.61	N
Sample 11 North Lethbridge			1.75	N				
Sample 12 North Lethbridge	1.61	N			1.63	N	1.69	N
Sample 13 North Lethbridge	1.70	N	1.84	N	1.73	N	1.86	N
Sample 14 North Lethbridge	1.66	N						
Sample 15 North Lethbridge	1.25	N			1.51	N	1.50	N
Sample 16 North Lethbridge			1.11	N			1.20	N
Sample 17 North Lethbridge	1.16	N						
Sample 18 North Lethbridge			1.74	N	1.77	N		
Sample 19 North Lethbridge			1.50	N			1.56	N
Sample 20 South Lethbridge	1.24	N			1.45	N	1.51	N
Sample 21 South Lethbridge							1.72	N
Sample 22 South Lethbridge	1.64	N	1.81	N	1.69	N	1.74	N
Sample 23 South Lethbridge	1.59	N	1.55	N	1.57	N		
Sample 24 South Lethbridge								
Sample 25 South Lethbridge	1.99	N	2.18	N	1.96	N	1.91	N

	Oct 5/2026		Oct 13/2026		Oct 20/2026		Oct 26/2026	
	Sample Results		Sample Results		Sample Results		Sample Results	
	Cl_2	Bac T	Cl_2	Bac T	Cl_2	Bac T	Cl_2	Bac T
Sample 26 West Lethbridge	1.33	N	1.27	N	1.21	N		
Sample 27 West Lethbridge	1.43	N					1.38	N
Sample 28 West Lethbridge					1.52	N		
Sample 29 West Lethbridge								
Sample 30 West Lethbridge	1.43	N						
Sample 31 West Lethbridge							1.36	N
Sample 32 West Lethbridge	1.40	N			1.23	N	1.71	N
Sample 33 West Lethbridge	1.36	N	1.39	N	1.45	N	1.53	N
Sample 34 West Lethbridge	1.58	N	1.35	N			1.40	N
Sample 35 West Lethbridge					1.25	N		
Sample 36 West Lethbridge	1.10	N	1.37	N	1.57	N	1.59	N
Sample 37 West Lethbridge			1.51	N				
Sample 38 West Lethbridge			1.42	N	1.49	N	1.42	N
Sample 39 West Lethbridge								
Sample 40 West Lethbridge	1.24	N	1.55	N				
Sample 41 South Lethbridge			1.80	N	1.68	N		
Sample 42 South Lethbridge	1.47	N					1.44	N
Sample 43 South Lethbridge	1.43	N			1.42	N		
Sample 44 South Lethbridge			1.65	N			1.67	N
Sample 45 South Lethbridge	1.48	N	1.65	N	1.63	N	1.67	N
Sample 46 South Lethbridge	1.43	N					1.60	N
Sample 47 South Lethbridge			1.73	N	1.67	N	1.68	N
Sample 48 South Lethbridge								
Sample 49 South Lethbridge					1.00	N		
Sample 50 South Lethbridge			1.74	N			1.74	N
Sample 51 South Lethbridge					1.12	N		
Sample 52 South Lethbridge	1.22	N	1.44	N				

Total Negative (N) =	**104**
Total Positive (P) =	**0**
Total Re-Samples =	**0**

Chlorine Residual Minimum =	**0.80 mg/L**
Chlorine Residual Maximum =	**2.18 mg/L**
Chlorine Residual Average =	**1.51 mg/L**