

Water Treatment Plant

March 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	0.059	0.3
Chloramines	mg/L	1.87	n/a ¹
Nitrate-N	mg/L	0.12	10
Fluoride	mg/L	0.80	1.5
Trihalomethanes	mg/L	0.007	0.1
Aluminum	mg/L	0.045	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		7.38	7.0 - 10.5
Hardness	mg/L	158	n/a ²
TDS - total dissolved solids	mg/L	192	≤ 500
Sulfate	mg/L	37.3	≤ 500
Sodium	mg/L	11.6	≤ 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 guideline 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

	Mar 2/2026		Mar 9/2026		Mar 16/2026		Mar 23/2026		Mar 30/2026	
	Sample Results		Sample Results		Sample Results		Sample Results		Sample Results	
	Cl ₂	Bac T	Cl ₂	Bac T	Cl ₂	Bac T	Cl ₂	Bac T	Cl ₂	Bac T
Sample 1 North Lethbridge			1.82	N			1.70	N	1.80	N
Sample 2 North Lethbridge	1.77	N			1.62	N				
Sample 3 North Lethbridge	1.85	N	1.76	N	1.57	N	1.58	N	1.76	N
Sample 4 North Lethbridge					1.76	N				
Sample 5 North Lethbridge	1.33	N			1.51	N	1.40	N	1.67	N
Sample 6 North Lethbridge							1.66	N		
Sample 7 North Lethbridge	1.87	N	1.81	N	1.64	N	1.69	N	1.71	N
Sample 8 North Lethbridge										
Sample 9 North Lethbridge	1.27	N	1.44	N	1.35	N			1.47	N
Sample 10 North Lethbridge			1.82	N						
Sample 11 North Lethbridge	1.91	N	1.90	N					1.85	N
Sample 12 North Lethbridge			1.88	N						
Sample 13 North Lethbridge	1.90	N	1.88	N	1.66	N	1.66	N	1.86	N
Sample 14 North Lethbridge					1.67	N				
Sample 15 North Lethbridge	1.63	N	1.67	N			1.65	N	1.73	N
Sample 16 North Lethbridge	1.53	N							1.56	N
Sample 17 North Lethbridge	1.81	N	1.93	N			1.58	N	1.80	N
Sample 18 North Lethbridge					1.65	N	1.79	N		
Sample 19 North Lethbridge							1.60	N	1.78	N
Sample 20 South Lethbridge			1.04	N			1.54	N		
Sample 21 South Lethbridge	1.83	N			1.63	N				
Sample 22 South Lethbridge	1.87	N	1.89	N	1.61	N	1.74	N	1.79	N
Sample 23 South Lethbridge					1.63	N				
Sample 24 South Lethbridge										
Sample 25 South Lethbridge	2.03	N	2.01	N	1.93	N	2.03	N	1.94	N

	Mar 3/2026		Mar 10/2026		Mar 17/2026		Mar 24/2026		Mar 31/2026	
	Sample Results		Sample Results		Sample Results		Sample Results		Sample Results	
	Cl ₂	Bac T	Cl ₂	Bac T	Cl ₂	Bac T	Cl ₂	Bac T	Cl ₂	Bac T
Sample 26 West Lethbridge			1.54	N						
Sample 27 West Lethbridge							1.65	N	1.66	N
Sample 28 West Lethbridge			1.86	N			1.65	N		
Sample 29 West Lethbridge			1.79	N	1.54	N				
Sample 30 West Lethbridge	1.83	N					1.65	N	1.78	N
Sample 31 West Lethbridge	1.73	N	1.82	N	1.56	N				
Sample 32 West Lethbridge			1.61	N	1.53	N				
Sample 33 West Lethbridge	1.79	N	1.71	N	1.61	N	1.71	N	1.76	N
Sample 34 West Lethbridge					1.57	N	1.54	N		
Sample 35 West Lethbridge			1.80	N						
Sample 36 West Lethbridge	1.78	N	1.69	N	1.53	N	1.53	N	1.73	N
Sample 37 West Lethbridge	1.83	N							1.84	N
Sample 38 West Lethbridge					1.56	N				
Sample 39 West Lethbridge	1.61	N	1.43	N	1.26	N	1.44	N	1.55	N
Sample 40 West Lethbridge	1.88	N								
Sample 41 South Lethbridge	1.89	N			1.79	N	1.66	N	1.78	N
Sample 42 South Lethbridge			1.75	N						
Sample 43 South Lethbridge							1.63	N	1.74	N
Sample 44 South Lethbridge									1.85	N
Sample 45 South Lethbridge	1.85	N	1.82	N	1.81	N	1.76	N	1.72	N
Sample 46 South Lethbridge	1.81	N	1.79	N	1.57	N				
Sample 47 South Lethbridge	1.84	N	1.84	N	1.58	N			1.72	N
Sample 48 South Lethbridge							1.56	N		
Sample 49 South Lethbridge					1.45	N				
Sample 50 South Lethbridge										
Sample 51 South Lethbridge	1.76	N					1.46	N		
Sample 52 South Lethbridge	1.75	N					1.60	N	1.73	N

Total Negative (N) = 129
Total Positive (P) = 0
Total Re-Samples = 0

Chlorine Residual Minimum = 1.04 mg/L
 Chlorine Residual Maximum = 2.03 mg/L
 Chlorine Residual Average = 1.70 mg/L