

Water Treatment Plant

June Report 2025

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	0.065	0.3
Chloramines	mg/L	1.91	n/a ¹
Nitrate-N	mg/L	0.03	10
Fluoride	mg/L	0.78	1.5
Trihalomethanes	mg/L	0.013	0.1
Aluminum	mg/L	0.158	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		7.25	7.0 - 10.5
Hardness	mg/L	147	n/a ²
TDS - total dissolved solids	mg/L	176	≤ 500
Sulfate	mg/L	32.8	≤ 500
Sodium	mg/L	8.0	≤ 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

	Jun 2/2025		Jun 9/2025		Jun 16/2025		Jun 23/2025	
	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	1.76	N	1.76	N			1.74	N
Sample 2 North Lethbridge	1.67	N						
Sample 3 North Lethbridge	2.23	N	1.62	N	1.54	N	1.50	N
Sample 4 North Lethbridge					1.53	N	1.62	N
Sample 5 North Lethbridge			1.29	N	1.01	N		
Sample 6 North Lethbridge								
Sample 7 North Lethbridge	1.61	N	1.75	N	1.74	N	1.66	N
Sample 8 North Lethbridge								
Sample 9 North Lethbridge								
Sample 10 North Lethbridge								
Sample 11 North Lethbridge								
Sample 12 North Lethbridge	1.69	N	1.66	N	1.53	N	1.73	N
Sample 13 North Lethbridge	1.70	N	1.76	N	1.56	N	1.79	N
Sample 14 North Lethbridge			1.65	N				
Sample 15 North Lethbridge	1.48	N	1.54	N			1.52	N
Sample 16 North Lethbridge							1.56	N
Sample 17 North Lethbridge	1.31	N	1.47	N	1.35	N	1.47	N
Sample 18 North Lethbridge	1.79	N			1.53	N	1.81	N
Sample 19 North Lethbridge	1.50	N						
Sample 20 South Lethbridge					1.47	N		
Sample 21 South Lethbridge	1.66	N	1.78	N	1.74	N		
Sample 22 South Lethbridge	1.77	N	1.79	N	1.67	N	1.72	N
Sample 23 South Lethbridge			1.67	N	1.53	N	1.49	N
Sample 24 South Lethbridge								
Sample 25 South Lethbridge	2.23	N	2.02	N	2.03	N	2.23	N

	Jun 3/2025		Jun 10/2025		Jun 17/2025		Jun 23/2025	
	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	1.49	N			1.50	N	1.37	N
Sample 27 West Lethbridge	1.47	N	1.59	N			1.52	N
Sample 28 West Lethbridge			1.70	N	1.62	N	1.60	N
Sample 29 West Lethbridge								
Sample 30 West Lethbridge			1.61	N			1.55	N
Sample 31 West Lethbridge			1.54	N				
Sample 32 West Lethbridge	1.42	N	1.56	N	1.45	N		
Sample 33 West Lethbridge	1.61	N	1.64	N	1.62	N	1.59	N
Sample 34 West Lethbridge							1.44	N
Sample 35 West Lethbridge								
Sample 36 West Lethbridge	1.69	N	1.69	N	1.65	N	1.63	N
Sample 37 West Lethbridge			1.71	N	1.62	N	1.62	N
Sample 38 West Lethbridge	1.61	N	1.70	N				
Sample 39 West Lethbridge								
Sample 40 West Lethbridge								
Sample 41 South Lethbridge	1.60	N					1.87	N
Sample 42 South Lethbridge					1.36	N		
Sample 43 South Lethbridge	1.32	N	1.58	N				
Sample 44 South Lethbridge					1.65	N	1.51	N
Sample 45 South Lethbridge	1.69	N	1.47	N	1.46	N	1.45	N
Sample 46 South Lethbridge	1.67	N	1.73	N	1.37	N		
Sample 47 South Lethbridge					1.65	N	1.85	N
Sample 48 South Lethbridge	1.43	N	1.60	N	1.28	N		
Sample 49 South Lethbridge	1.50	N			1.47	N		
Sample 50 South Lethbridge							1.85	N
Sample 51 South Lethbridge								
Sample 52 South Lethbridge								

Total Negative (N) = 103
Total Positive (P) = 0
Total Re-Samples = 0

Chlorine Residual Minimum = 1.01 mg/L
 Chlorine Residual Maximum = 2.23 mg/L
 Chlorine Residual Average = 1.61 mg/L