



City of Thompson Annual Water Distribution Report - 2007

City of Thompson is unique compared to other municipalities. Vale Inco provides the city with safe potable water as per our 1956 agreement. However, it is still our goal to maintain and distribute safe drinking water in a cost effective manner.

This report was created to provide the public with access to the information available about the drinking water they consume. Please visit Vale Inco's website for a copy of the water treatment plant annual report.

The following pages are in question answer format. If you still have questions you can contact the City at mwebb@city.thompson.mb.ca.

What is the distribution system?

The water distribution system is the network of underground pipes used to convey the treated water from the water treatment plant to the homes and businesses in Thompson. We carry out regular maintenance in the distribution system such as seasonal line flushing to keep the lines clean. Distribution pipes consist mostly of ductile and cast iron.

Is water tested?

Water samples are taken on a weekly basis, both from the Water Treatment Plant and our distribution system. Every week the city tests raw water (untreated river water), treated water (water leaving the WTP), the 3 distribution locations, chosen based on area and availability (mostly schools/commercial). These samples are then sent to A L S Laboratories for analysis. All water quality test results are submitted to the provincial Office of Drinking Water for review.

What is water tested for?

Bacterial testing: Every week these samples are tested for the presence of Total Coliform and E. coli bacteria. If these bacteria are present in the water it is an indication that disease causing organisms may also be present.

Disinfectant testing: Chlorine levels are tested at the water treatment plant and in the distribution system every time we take water samples for bacterial analysis.

Trihalomethane testing: Trihalomethanes (THM's) are formed as a by-product when chlorine is used to disinfect water. They result from the reaction of chlorine and organic matter in the water being treated. The THM's produced may have adverse health effects at high concentrations.

What are the results of the tests?

Parameter	Standard	WTP Performance	Did we meet the standard?
Bacteria	0 Total Coliform/100 ml	100%	Yes
	0 E.coli/100 ml	100%	Yes
Chlorine (Distribution)	0.1 mg/L	100%	Yes
Trihalomethanes	0.1 mg/L	0.0491 mg/L	Yes
	Quarterly sampling	50%	No
Bromodichloromethane	0.016 mg/L	0.0041 mg/L	Yes
	Quarterly sampling	50%	No

How will the results for Trihalomethanes be corrected?

The trihalomethane standard came into effect January 2007. However the City of Thompson did not implement its testing program until later in the year. The standard for Trihalomethanes is based on a running average of quarterly samples. As the summary table above indicates, there does not appear to be an issue. Quarterly samples will now be taken every year.

Repairs to the distribution system in 2007?

2007 was our worst year to date for mainline water breaks. We had 74 water main breaks up from 42 in 2006. We also had 54 service repairs up from 40 in 2006.

Where can I find copies of the results?

Copies of the results are kept at our public works yard. Reports will be available for viewing upon request. Please contact Mike Webb at mwebb@city.thompson.mb.ca.