

## P7

# Mass Wasting and Erosional Processes on the Moose Jaw River, Wakamow Valley Area

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*The Moose Jaw River, similar to other prairie streams, is an ephemeral channel. Some years there is no flow, and in other years flow only occurs for a short time during spring runoff. However, historical data show that, during the spring and summer of a few years, there is sufficient rainfall to produce significant flow which is capable of flooding surrounding lands (SWA 2006) and increasing erosion on unstable banks. This study aims to assess present and potential erosion along the Moose Jaw River in the vicinity of Wakamow Valley Regional Park in Moose Jaw, Saskatchewan. The objectives are: 1) identification of past and present erosion problems along the Moose Jaw River banks, 2) evaluation of contributing factors to erosion events such as mass wasting and evolution of channel banks, and 3) identification of sites at risk of erosion in Wakamow Valley Regional Park. Field and laboratory methods are applied to each of the three objectives in order to achieve the following anticipated results: maps of past mass-wasting events and erosional history, current mass-wasting events and erosional history, a map of sites at risk in the future according to assessed rank, and a discussion of the sites at elevated risk of erosion currently and in the future.*

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