

## Grande Prairie – Bear River – Flood Hazard Study – Summary

<b>Community</b>	City of Grande Prairie Hamlet of Wedgewood County of Grande Prairie No. 1
<b>Stream</b>	Bear River
<b>Basin</b>	Peace River – 7G

This study delineates flood hazard areas and determines design flood levels along an approximate 20 km reach of the Bear River through Grande Prairie. The design discharge for Bear River is 104 m<sup>3</sup>/s upstream of the Grande Prairie water supply reservoir dam and 110 m<sup>3</sup>/s downstream of the dam.

The Bear River watershed is situated in the Wapiti Plains physiographic region of Alberta. Flood flows at Grande Prairie tend to be attenuated by Bear Lake but the typical flow regime is established by Grande Prairie Creek, which joins Bear River downstream of the lake outlet and upstream of the study reach. The Grande Prairie water supply reservoir dam was originally constructed in 1948 and is not assumed to significantly attenuate flood flows. Considerable channelization work has been undertaken along the Bear River downstream of the dam since 1965. Although spring snowmelt runoff accounts for high flows in most years, flooding in the study area generally occurs during the open water season as a result of heavy rainfall events.

A digital representation of the flood hazard maps prepared as part of this study can be viewed online.

- [Grande Prairie Flood Hazard Mapping](#)

For more information regarding specific flood hazards in your community, please contact Alberta Environment and Parks by email at [ESRD.Flood@gov.ab.ca](mailto:ESRD.Flood@gov.ab.ca).

### Flood Hazard Study Details

<b>Study Status</b>	Final
<b>Report Name</b>	Grande Prairie Flood Risk Mapping Study
<b>Report Author</b>	Northwest Hydraulic Consultants Ltd., Edmonton, Alberta
<b>Report Date</b>	March 2007

Flood information available after study completion may not be reflected in the current flood hazard study report or flood hazard mapping.

To obtain a PDF copy of the current report or mapping in PDF format, please contact Alberta Environment and Parks by email at [ESRD.Flood@gov.ab.ca](mailto:ESRD.Flood@gov.ab.ca).

Instructions on how to obtain official GIS flood hazard mapping data, or more information on the Flood Hazard Identification Program and flood hazard studies in Alberta, are available online.

- [floodhazard.alberta.ca](http://floodhazard.alberta.ca)

### Provincial Designation Details

<b>Designation Status</b>	Pending
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### Related Information

<b>Adjacent Studies</b>	None
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