

Carbon – Kneehills Creek – Flood Hazard Study – Summary

Community	Village of Carbon Kneehill County
Stream	Kneehills Creek
Basin	Red Deer River – 5C

This study delineates flood hazard areas and determines design flood levels along an approximate 7 km reach of Kneehills Creek through Carbon. The design discharge for Kneehills Creek is 175 m³/s.

The Kneehills Creek watershed is located within the western Alberta plains. The study reach contains two cutoff channels originally constructed to reduce flood water levels. The downstream cutoff was likely constructed following a 1952 spring flood and the upstream cutoff and associated weir were constructed between 1977 and 1978 in concert with residential development in Carbon. Flooding in the study area is attributed to both ice jam and open water events, caused either by spring snowmelt and ice breakup conditions or by intense summer rain events. High flows can occur any time between February and September. Open water flooding is the design case in the study area.

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

- [Carbon 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.

Flood Hazard Study Details

Study Status	Final
Report Name	Carbon Flood Hazard Mapping Study, Kneehills Creek
Report Author	Northwest Hydraulic Consultants Ltd., Edmonton, Alberta
Report Date	January 2008

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.

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

Provincial Designation Details

Designation Status	Pending
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Related Information

Related Studies	None
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