Lamont Flood Study

Study update notice

We would like to provide an update on the status of the Lamont Flood Study.

The study started in spring 2023 and technical work on all components is now complete. We recognize there is tremendous interest in new flood mapping. Our goal is to provide useful tools to communities and the public as soon as possible.

We are currently assessing municipal feedback on the draft flood study, including draft flood inundation maps that support local emergency response and draft flood hazard maps that help guide long-term development planning. We are exploring future public engagement opportunities for the draft flood study and will provide an update when more information is available.

The study is being completed under the provincial Flood Hazard Identification Program, the goals of which include enhancement of public safety and reduction of future flood damages through the identification of river and flood hazards. The provincial study was co-funded through the federal Flood Hazard Identification and Mapping Program.

More information about the Alberta Flood Hazard Identification Program can be found at:

• www.floodhazard.alberta.ca

If you have any questions regarding this work, we can be contacted at:

• Email: epa.flood@gov.ab.ca



Project background and study progress

The Lamont Flood Study assesses and identifies flood hazards along 9 km of Lamont Creek and 2 km of unnamed tributaries through Lamont and Lamont County.

The main study components outlined below include new hydraulic modelling and flood mapping, but all deliverables support local emergency response and land-use planning needs.

- Survey and base data collection Under municipal review, future public engagement planned Hydraulic models and flood maps require high-accuracy base data. Field surveys and LiDAR remote sensing were used to collect river and floodplain elevations, channel cross section data, bridge and culvert information, and dedicated flood control structure details.
- Hydrology assessment Under municipal review, future public engagement planned The hydrology assessment estimates flows for a wide range of possible floods along Lamont Creek and its unnamed tributaries, including the 1:2, 1:5, 1:10, 1:20, 1:35, 1:50, 1:75, 1:100, 1:200, 1:350, 1:500, 1:750, and 1:1000 floods.
- Hydraulic river modelling Under municipal review, future public engagement planned A new hydraulic computer model of the river system was created using new survey data and modern tools. The model was calibrated using surveyed highwater marks from past floods to ensure that results for different floods are reasonable.
- Flood inundation mapping Under municipal review, future public engagement planned Flood maps for thirteen different sized floods, based on the hydraulic model results and the hydrology assessment, have been produced. Flood inundation maps can be used for emergency response planning and to inform local infrastructure design. These maps identify areas of direct flooding and areas that could be flooded if local berms fail.
- Flood hazard mapping Under municipal review, future public engagement planned Flood hazard mapping divides the 1:100 floodplain into floodway and flood fringe zones and sub-zones, to identify where flooding is deepest and most destructive, reflect the protection provided by flood berms, and provide more information about a wider range of flood hazards. These maps can be used to help guide long-term development planning.



Classification: Public