



# Mosquito Creek Hazard Mapping Project

The Rideau Valley Conservation Authority (RVCA) conserves natural resources and manages natural hazards in the Rideau River valley for everyone's benefit. In cooperation with local municipalities and the province, the RVCA identifies, studies and maps natural hazard areas along local rivers, lakes, streams and wetlands. Natural hazard areas include floodplains and unstable slopes.

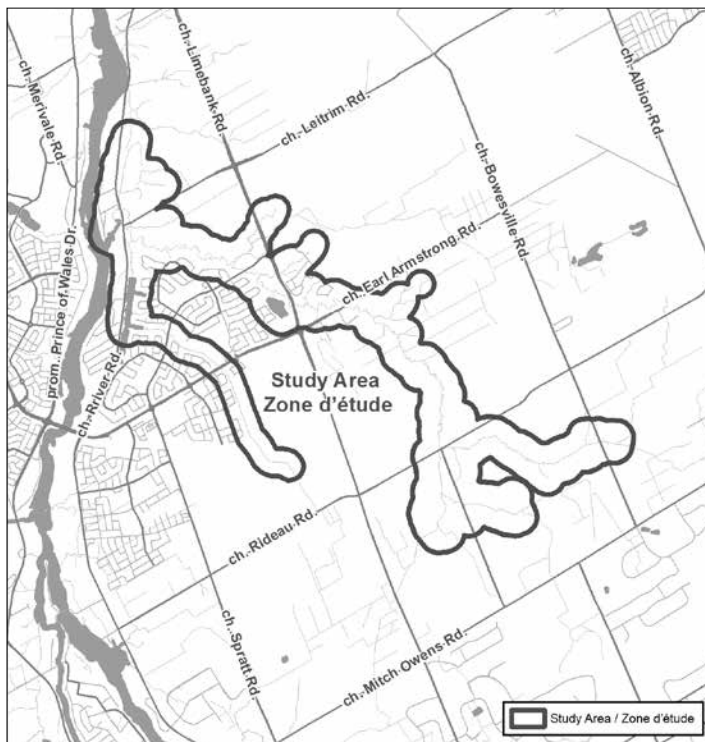
The RVCA is conducting several hazard mapping studies on watercourses within the City of Ottawa. These studies are being completed through a collaboration involving the City of Ottawa and the Mississippi Valley, Rideau Valley and South Nation Conservation Authorities. To learn more, visit [www.rvca.ca/ottawa-mapping-project](http://www.rvca.ca/ottawa-mapping-project).

Currently, a mapping project is underway in your community for Mosquito Creek from Mitch Owens Road to the Rideau River.

## What is being identified?

Hazard maps for Mosquito Creek identify:

- 1) Flood risk hazards
- 2) Slope stability hazards (unstable soils and erosion)



## 1) Flood risk hazards

A flood risk study for the Mosquito Creek catchment is now available for public review.

This study includes hydrologic and hydraulic analysis, historical rainfall records, soil classification, land use and topographical data to produce estimates of the 1:100 year flood discharge. This information is then used to identify the corresponding water surface elevations and flood elevations for the watercourses under consideration.

RVCA flood risk mapping studies follow technical guidelines established under the Canada-Ontario Flood Damage Reduction Program (MNR, 1986) and the technical guide for flood hazard delineation in Ontario (MNR, 2002) as laid out by the Ministry of Natural Resources and Forestry.

The resulting flood risk maps identify areas along watercourses that are vulnerable to flooding and where new development is to be restricted or prohibited in accordance with provincial and municipal planning policies.

## 2) Slope stability hazards (unstable soils and erosion)

Slope stability analysis makes use of new, highly detailed topographic data to identify toe and top of slope. This information is used to create an allowance area that serves to flag potentially unstable slope areas due to slope height and steepness.

## How are natural hazard maps used?

When completed, natural hazard mapping will be used by the City of Ottawa when updating their Official Plans and Zoning Schedules and in the review of development applications under the *Planning Act*.

The RVCA will use the same mapping in the administration of regulations made under *Ontario Regulation 174/06 — Development, Interference with Wetlands and Alterations to Shorelines and Watercourses Regulation*.

The role of the RVCA's Planning and Regulation Program is to review and regulate development proposals with the purpose of reducing impacts on the control of flooding, pollution, erosion and conservation of land.

RVCA's work is important as it protects watercourses, floodplains, wetlands, shorelines and valley lands – and it protects you and your neighbours from flooding, erosion and loss of natural features and functions.

### **My property is now identified as being in the floodplain/flood risk area. How will this impact my property?**

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As part of its mandate, the RVCA regulates development in environmentally sensitive areas such as floodplains, wetlands, shorelines and waterways (*Ontario Regulation 174/06 — Development, Interference with Wetlands and Alterations to Shorelines and Watercourses Regulation*). As much of the Mosquito Creek area is already developed, properties in the regulated area would require review and approval prior to any construction projects such as new buildings (garages, sheds), additions, swimming pools, etc.

The RVCA also reviews planning applications (*Planning Act*) as they relate to natural hazards and natural heritage features and provide comments to municipalities. Development applications under the *Planning Act* can include severances and subdivisions for new lot creation, minor variances for new construction, reconstruction or additions, rezoning and site plan submissions.

Following public consultation and RVCA Board of Director approval of the hazard mapping study and regulations mapping, the RVCA will have limits that clearly outline where development, interference and alterations require approval from the RVCA. Regulation limits include buffer areas around the hazard as prescribed in provincial regulations.

### **What can or can't I do on my property?**

It depends on the location of your property. We can help. Once we know the exact location of your property, an RVCA Resource Specialist can help determine if your property falls within a regulated area. Call 613-692-3571 extension 1193 or 1132 to connect with a Resource Specialist, email [development@rvca.ca](mailto:development@rvca.ca) or submit a property inquiry form available online at [www.rvca.ca/regulations-planning](http://www.rvca.ca/regulations-planning). You can also see the maps online at [www.rvca.ca/mosquito-creek](http://www.rvca.ca/mosquito-creek).

### **For more information:**

For questions on how the new mapping may impact your specific property, contact:

RVCA Resource Specialists  
613-692-3571 extension 1193 or 1132  
[development@rvca.ca](mailto:development@rvca.ca)

### **Hazard Land and Regulations Mapping Open House**

Members of the public are invited to share information and review the draft regulation and hazard maps (available online at [www.rvca.ca/mosquito-creek](http://www.rvca.ca/mosquito-creek)) during the public consultation period which will run until July 29, 2022.

We also welcome you to see the draft hazard and regulations maps at the public open house.

### **Mosquito Creek Hazard Land and Regulations Mapping Open House**

*Rideauview Community Centre*  
4310 Shoreline Drive, Ottawa

**Tuesday, June 28, 2022**  
**4:30 to 8:00 p.m.**

You can also book individual or small group meetings on-line or in person to review mapping and discuss potential impact and concerns.

### **Do you have information to share?**

The RVCA welcomes every bit of information that we can obtain about the historical behaviour of local watercourses. Residents and landowners along these features may have anecdotal or documented information such as photographs or journal entries of their observations during past high-water events or slope failures.

This information can be shared at any time following the announcement of the mapping study to two weeks after the presentation of the mapping at the public open house. The open house allows landowners to view and comment on the draft maps and speak with Authority staff on how the new hazard lines were determined. Landowners who cannot attend this meeting can view the draft maps online at [www.rvca.ca/mosquito-creek](http://www.rvca.ca/mosquito-creek) or at the RVCA head office by booking an appointment (in-person or online) with a Resource Specialist at 613-692-3571 extension 1193 or [development@rvca.ca](mailto:development@rvca.ca). Interested parties are asked to submit their input during the consultation period.