

Memo

To: Christine Zimmer (CVC), John Sinnige (CVC), Rebecca Elliot (TRCA), Rehana Rajabali (TRCA), Teresa Burgess-Ogilvie (Mississauga), Alain Normand (Brampton), Andrew Cooper (Peel), Mark Wallace (Caledon)

From: Meg Olson (CVC)

Date: May 24th 2019

Re: Event Summary and Next Steps: Emergency Management for Flood Risk Workshop

This memo summarizes the feedback received from the workshop discussion on November 30th, 2018, and presents a summary of gaps and risks identified from the workshop. This event summary will be used in the identification and prioritization of projects for the development of the Emergency Management Component of the Peel Community Climate Change Partnership (PCCCCP) Flood Resiliency Strategy (FRS).

November 30th Workshop Agenda

9:30 AM	Registration/Light Breakfast
10:00 AM	Welcome and Introductions
10:10 AM	Flood Risks Presentation
11:00 AM	Lessons Learned Interactive Sessions
12:00 PM	Lunch
12:45 PM	Gap and Risk Discussion Breakout Stations
1:45 PM	Closing Remarks and Outcome Summary

Event Purpose

This workshop was held to allow PCCCCP partners to work together to identify gaps and risks in the current processes of emergency management for flood risk. The workshop brought together emergency management and related municipal, regional, and conservation authority staff to:

- Review roles of emergency management, conservation authority staff, and related municipal and regional staff in flood risk reduction;
- Discuss high risk flooding areas in the Mississauga, Brampton, and Caledon;

- Share lessons learned from past events in our watersheds; and
- Identify informational, procedural, and other gaps and risks affecting emergency management for flood risk planning and response.



An emphasis was placed on defining roles and responsibilities for flooding during the event, and including municipal staff with roles related to and supporting flood risk in the discussion (land use planning, stormwater management, 311 staff).

Peel Community Climate Change Partnership

The PCCCP was formed in 2009 by the Region of Peel, City of Mississauga, City of Brampton, Town of Caledon, Credit Valley Conservation (CVC), and Toronto and Region Conservation Authority (TRCA) to identify areas where common approaches to climate change risks could be developed to leverage and reinforce individual efforts. In 2017, the partners identified a Flood Resiliency Strategy to reduce flood risks as one of four priority PCCCP strategies, and defined the FRS goals based on recommendations from the Cooksville and Peel Water Infrastructure Vulnerability studies conducted in 2016 and 2017, respectively. The results of these vulnerability studies were used to identify priority strategies, including the Flood Resiliency Strategy (FRS), for further study and development under the PCCCP in 2018-2022. The purpose of the FRS is to improve flood resiliency for urban (overland and sanitary) and riverine flooding in light of current and future extreme weather events. This will be achieved through the optimization and coordination of consistent approaches through policies, programs, and practices by partners to reduce legal and public safety risks. The Emergency Management Component of the FRS was formulated to address cooperation among partners on emergency management for flood risks.

Roles and Responsibilities

Responsibility for management of flood risk is shared between municipalities, conservation authorities (CAs), the province of Ontario, and the general public.

Province of Ontario:

- Maintain MNRF Surface Water Monitoring Centre
- Flood Forecasting and Warning in areas with no CA
- 'Monitor, predict, communicate, advise'

- Can declare a flood emergency
- Can provide recovery funding (Municipal Disaster Recovery Assistance, Disaster Recovery Assistance for Ontarians)

Municipalities:

- Emergency management including response to urban overland and riverine flooding events (EM, Police, Operations staff)
- Can declare a flood emergency
- Primary responsibility for locality land use planning, municipal stormwater management



Conservation Authorities:

- Flood Forecasting and Warning based on Provincial Guidance for riverine flooding
- 'Monitor, Predict, Communicate, and Advise'
- Operate and maintain water and erosion control infrastructure, including dams, if owned by CA (not all CAs own this type of infrastructure)
- Provide input on municipal emergency planning when requested

General Public:

- Follow warning messages during an emergency event
- Use municipal and provincial guides to educate themselves about flood risks relevant to their property and community
- Prepare to cope with a 72-hour event on their own, to allow first responders to focus on those with urgent needs

Workshop Outcomes

The workshop topics and presentations were informed by findings of the vulnerability studies, meetings between the leaders of the FRS Emergency Management component, a survey of emergency response operations staff, and a preliminary workshop with CVC and TRCA Flood Forecasting and Warning (FFW) staff to identify particularly relevant discussion topics. A preliminary list of gaps and risks developed from these initial events were presented and discussed at the workshop. Group discussion focused on 6 pre-identified topics:

1. Ice Jams (Lessons Learned)
2. Thunderstorms (Lessons Learned)
3. Overland Flooding
4. Public Outreach
5. Evacuation
6. Flood Risk Mapping

Gaps and risks identified prior to the workshop were presented in their appropriate category, or were addressed as possible during the morning presentation. An emphasis was placed on outlining roles and responsibilities during the morning presentation for flooding to clarify these among partners. The outcomes of the gap and risk collection and meeting discussions are presented in attached tables. Table 1 presents the collated information from the planning of the workshop and input from the workshop on identified gaps, with preliminary solutions identified for discussion purposes.

Next Steps

A discussion and prioritization meeting will be held with Specific EM and FFW staff to discuss the workshop findings and, based on the gap and risks gathered in Table 1, identify opportunities for coordination with existing partner projects, new projects that should be developed, and prioritize identified projects.

Contact

For questions about this memo, please contact Meg Olson at meg.olson@cvc.ca.

Attendee List

Name	Organization		
		Mark Wallace	Town of Caledon
Alain Normand	City of Brampton	Michael Heralall	City of Brampton
Amna Tariq	CVC	Meg Olson	CVC
Andra Maxwell	City of Mississauga	Mickey Frost	City of Mississauga
Andrew Cooper	Region of Peel	Monali Varia	Region of Peel
Brennan Vogel	Town of Caledon	Muneef Ahmad	City of Mississauga
Christine Zimmer	CVC	Nathan Plato	TRCA
Cristian Altobelli	Town of Caledon	Neelam Gupta	CVC
Darryl Bailey	Town of Caledon	Rebecca Elliot	TRCA
Farshad Salehzadeh	Region of Peel	Rhianydd Phillips	TRCA
Gavin Longmuir	City of Mississauga	Robyn Heibert	City of Mississauga
Geoff Coulson	Meteorologist	Samer Inchasi	City of Mississauga
Gillian Boyd	Town of Caledon	Scott Harrison	Region of Peel
Hailey Ashworth	CVC	Scott Holmes	City of Mississauga
Jeff Wong	CVC	Steven Dollmaier	Town of Caledon
Jerry Pinchak	City of Mississauga	Teresa Burgess Ogilvie	City of Mississauga
John Sinnige	CVC	Tim Beckett	City of Mississauga
Julien Gordon	CVC	Tim Lindsay	City of Mississauga
Ken Lauppe	City of Mississauga	Tim Mereu	CVC
Laurel Schut	City of Mississauga	Wendy McClymont	City of Mississauga