

May 2017

Floods and Landslides







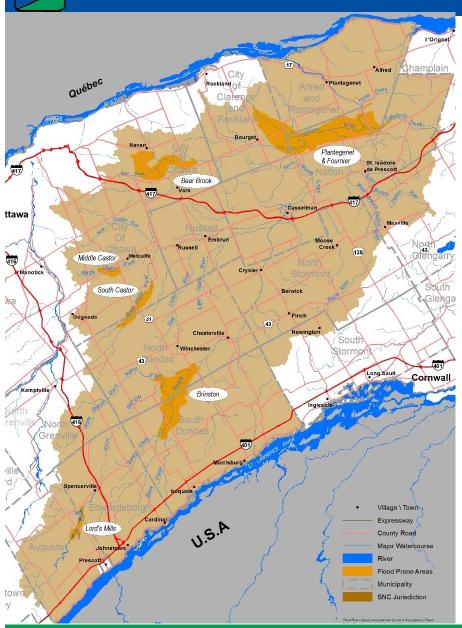




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Flood Forecasting and Warning



- Northern: Ottawa River
- Southern: St. Lawrence River
- Central: Landslides





Basins



Sandra Mancini, Senior Water Resources Engineer





Date	Total Daily Precip (mm)	Wind (km/h)
May 1 st , 2017	45.4	54
May 2 nd , 2017	0.8	50
May 3 rd , 2017	0.2	50
May 4 th , 2017	3.2	41
May 5 th , 2017	40.4	41
May 6 th , 2017	20.6	43
May 7 th , 2017	2.5	41
May 8 th ,2017	0.6	46

- April, snow melt and near double levels - Soil totally saturated
- May 1st to May 8th: 113.7
 mm
- May Normal monthly rainfall: 81 mm

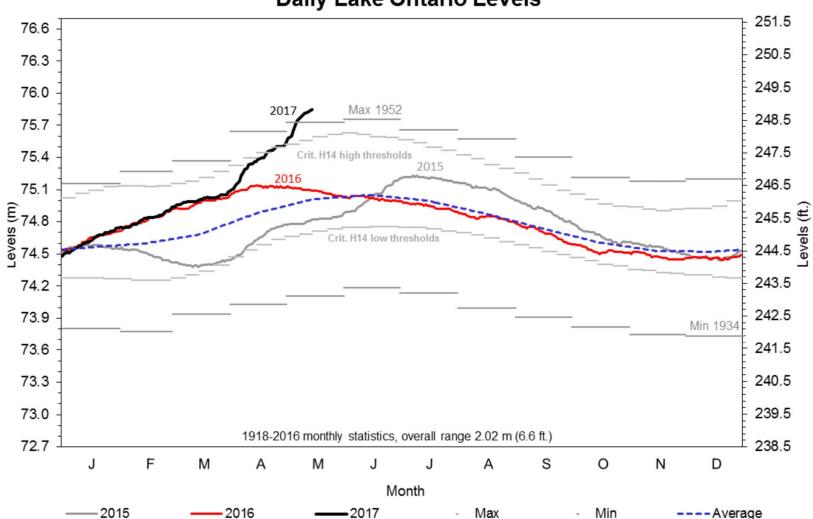




Rain Event Impacts

1947-2017

Daily Lake Ontario Levels

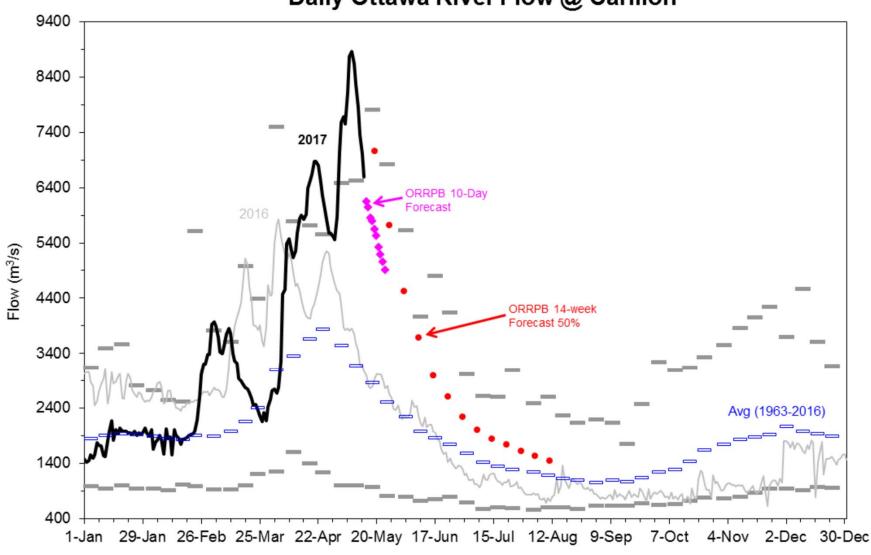


Source: International lake Ontario- St. Lawrence River Board



Rain Events Impacts

Daily Ottawa River Flow @ Carillon



Source: International lake Ontario- St. Lawrence River Board



Ottawa River



Wendover (May 3rd, 2017)



 Peak water level @ Thurso gauge: 43.71m (May 8th, 2017)

- Alfred Plantagenet: 5 Road closures
- Clarence Rockland: state of emergency: Thursday May 4th, 2017
- Champlain: state of emergency
 Sunday May 7th, 2017

Wendover (May 8th, 2017)





SNC Response

- 6 conference calls
- 20 Flood Messages/Updates
- More than 30 inquires from municipal staff and residents

April Flood Messages

Flood Watch (April 6 , Statement (April 10, 2017)

Flood Watch (April 21, 2017)

4 flood surveillance visits

May Flood Messages

Flood Warring 2017)

Flood Warning (May 4, 2017)

Flood Warning (May 5, 2017)

Flood Warning (May 7, 2017)

Flood Warning (May 8, 2017)

Flood Warning (May 9, 2017)





St. Lawrence River



- Peak water level at Morrisburg gauge: 1.298m (May 3rd, 2017)
- Flooding issues reported in Edwardsburgh Cardinal and Augusta

Edwardsburg Cardinal (May 8th, 2017)





SNC Response



Figure 4: Augusta (May 10th, 2017)

- 2 flood surveillance visits
- 3 Flood Messages/Updates have been sent out in May 2017.
- More than 20 inquires from Municipal staff and residents

May Flood Messages







Vulnerable Houses



Houses within the 100-Yr Floodplain Wendover

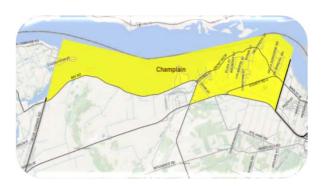
- Identified vulnerable houses along the Ottawa and St. Lawrence River
- Created a database identifying houses at risk using modelled floodplain, site visits, and drone/ news footage



Remediation







- Potential issues: septic, wells, shoreline erosion, repairs/rebuild in floodplain areas (permits)
- Ontario Government activates disaster relief funding
- Assist Alfred Plantagenet; City of Ottawa; Clarence Rockland and Champlain to respond inquiries from landowners
- Working with Task Force Working Groups
- Developing Fact Sheets for residents





Landslides

- SNC was notified regarding 6
 landslides in Limoges, Embrun,
 Casselman, Lemieux
- SNC staff have conducted multiple site visits to assess these landslides.



The Nation Municipality (May 9th, 2017)

NOTE: Landslides can occur at anytime not just during flood events and heavy rain fall.

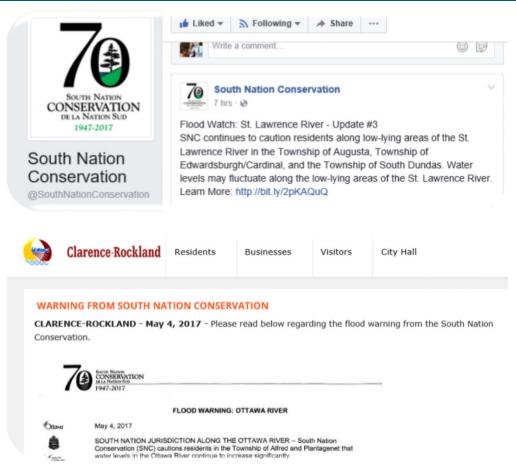


1480 Conc 17 Rd, Casselman (May 4th, 2017)





In the News...



- Statements sent to Distribution List
- Website
- Social Media
- Signage
- Media

2 flood watches issued in Ottawa region ahead of rainfall

Up to 25mm of rain expected to fall in 48 hours, starting Monday night
CBC News Posted: Apr 07, 2014 10:40 AM ET | Last Updated: Apr 08, 2014 8:45 AM ET







Our Local Environment, We're in it Together.

