



SOUTH NATION
CONSERVATION
DE LA NATION SUD

Project Update

February 15th, 2024





New Staff: Alexandre Roy-Guay



- Studied 2 years at OttawaU and 3 years at College Boréal
- Passionate traveler with a desire to explore new destinations



Congratulations Shahin!

- Received **Professional Engineer** designation in January 2024





Retirement of MOECP Liaison to SPC



Source Protection Committee and Staff

- Mary Wooding was the liaison from MECP on the Source Protection Committee since its establishment
- She attended her last SPC meeting with us on January 17, 2024



Watershed Advisory Committee Recruitment



South Nation Conservation Watershed Advisory Committee Member Application

The new SNC Watershed Advisory Committee will be comprised of up to 24 members to capture the scope of stakeholders represented in the current four SNC Standing Committees.

Please complete all areas of this application form for your application to be considered. You may attach additional information if desired.

Note: To be eligible for membership on the South Nation Watershed Advisory Committee, you must: reside in, own or rent property within the South Nation jurisdiction.

Applicant Information

Full Name: Date:

Address:

Street Address: Apartment/Unit #:

City: Province: Postal Code:

Phone: E-mail Address:

Please check box for the position(s) for which you are applying:

<input type="checkbox"/> Agriculture	<input type="checkbox"/> Forestry	<input type="checkbox"/> Member at Large
<input type="checkbox"/> Communications	<input type="checkbox"/> Environmental	

Knowledge and Expertise

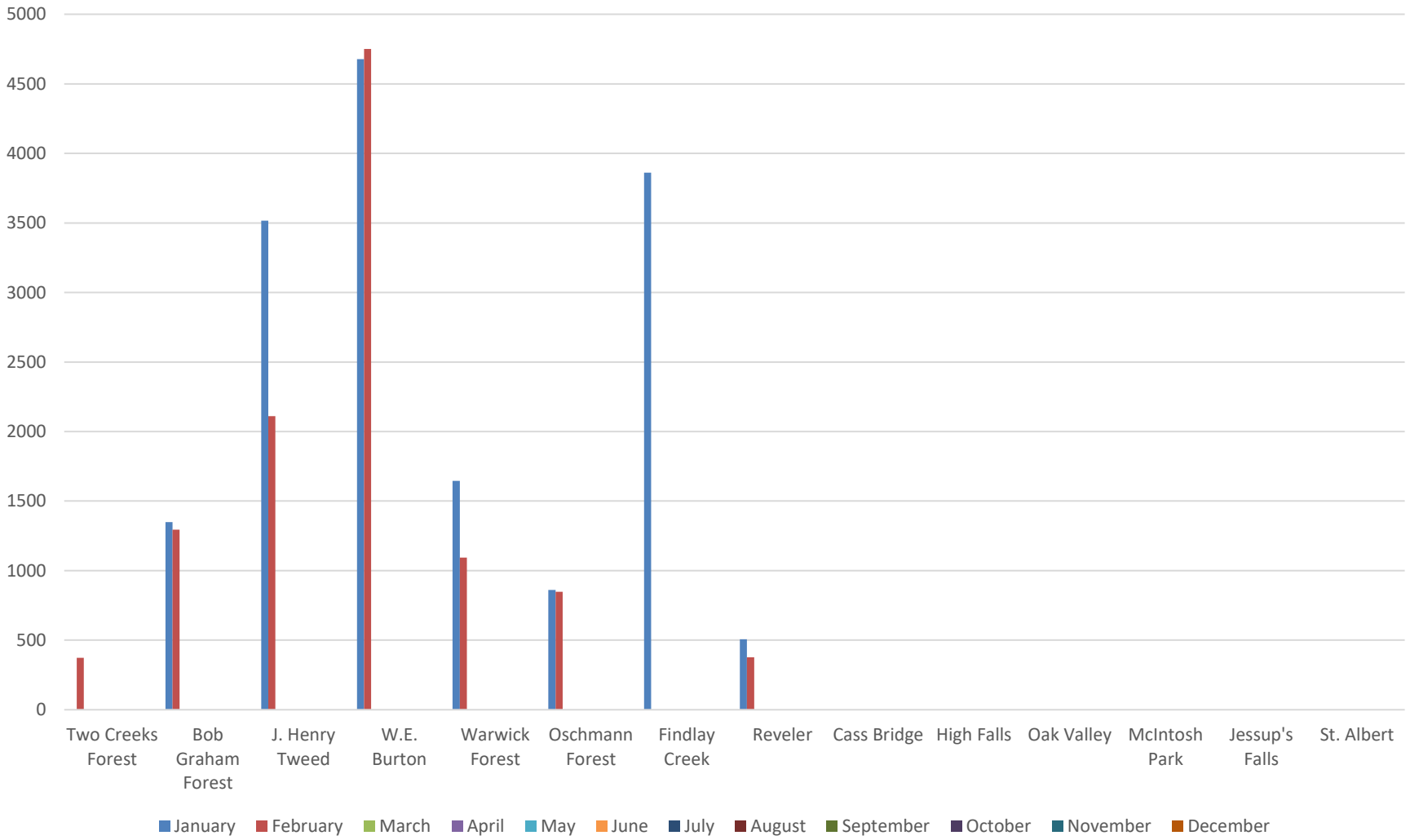
Please provide a brief summary and attach detailed information if desired.

Knowledge of South Nation Conservation:

- 28 applications received
 - 17 new candidates
 - 9 former committee members
- Interviewing 11 candidates on February 16th
- Staff working on recruitment of sector appointments
- Membership to Board at AGM for approval



Conservation Area Stats





ROMA Ministerial Delegation



SNC Delegation with Hon. Graydon Smith, Minister of Natural Resources and Forestry



Nation Council Delegation



SNC delegation...



Working with Conservation Partners



- City of Ottawa hosted
- 11 conservation partners
- City Conservation Strategy
- Partnership opportunities
- Land acquisition strategies

Conservation & Stewardship Workshop



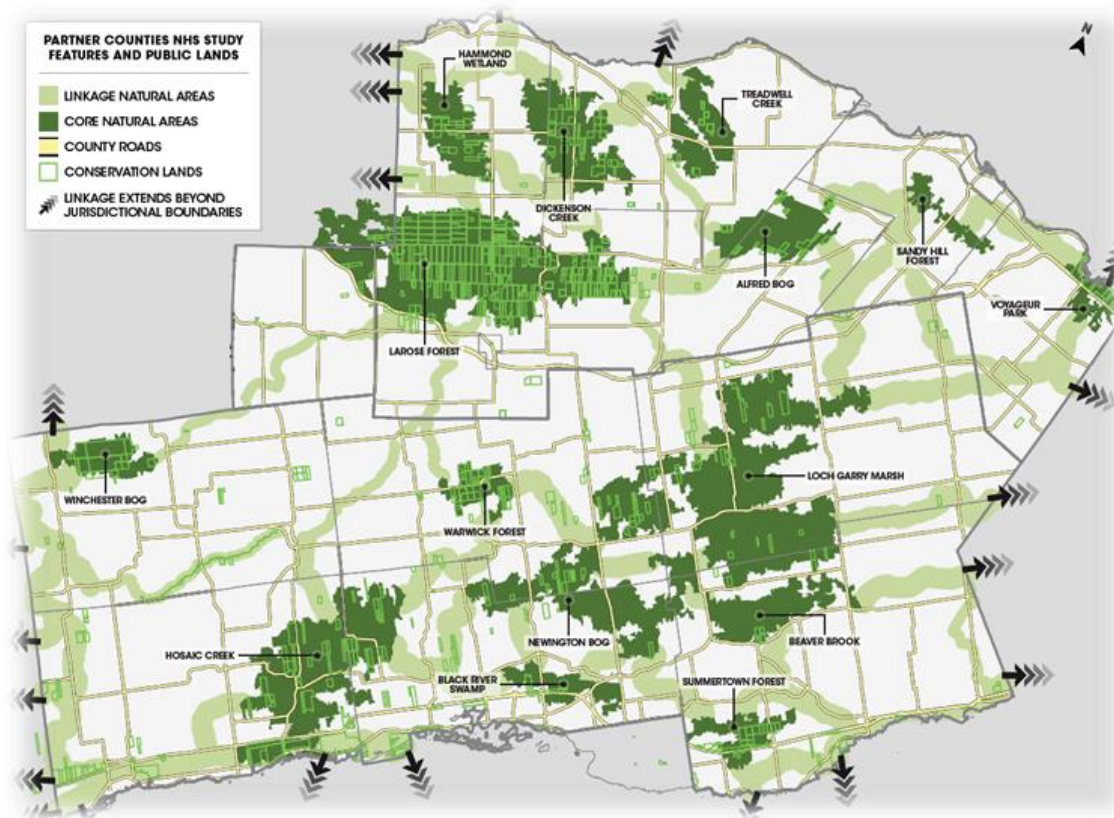
Working with Municipalities



- Meeting with SDG County Senior Staff
- Discuss 2023 deliverables and new projects
- Plan for infrastructure permits and streamline reviews



Supporting County Planning



Natural Heritage System & Conservation Lands

- SDG initiative to implement the Natural Heritage System
- Rural Open Space Designation for Conservation Land
- SNC appreciates opportunity to work with municipalities towards a connected landscape



Upcoming Events – Septic Program



2023 Annual Contractors Meeting (Finch Arena)

Septic Compliance Review Webinar (Virtual)

Friday, March 1st
9:00 AM – 11:00 AM

Leeds Grenville Information Day (Augusta)

Thursday, March 7th
9:30 AM – 11:30 AM

Installer Course – New Certifications (Hawkesbury)

March 13th – 19th
9:00 AM – 4:00 PM

Prescott Spring Home & Trade Show (Prescott)

March 20th – 21st
3:00 PM – 8:00 PM

Annual Contractors Meeting (SNC Office)

Thursday, March 28th
9:30 AM – 12:30 PM



Tree Planting Contract Update



Hyndman Road, Mountain
North Dundas
2024: 1,500 tree project

- 2 tree planting contracts awarded for spring 2024; along with
 - 1 Spot Spray and
 - 1 Frost Seeding contract



Oak Valley Shoreline Stabilization



Oak Valley Pioneer Park Conservation Area,
Inkerman, North Dundas

- Funding from EcoAction Grant to stabilize the riverbank
- Re-sloping, conifer 'revetment', live staking, and tree planting



Wetland Restoration on SNC Lands



SNC 53
Route 400
Casselman





Flood Forecasting and Warning Information Sessions



FLOOD FORECASTING & WARNING

INFORMATION SESSION FOR CITY OF OTTAWA STAFF IN PREPARATION FOR THE SPRING FRESHET

Please join us in person:

Rideau Valley Conservation Area Office
3889 Rideau Valley Dr, Manotick, ON

Tuesday, March 5, 2024
10:00 AM to 3:00 PM

(Lunch and refreshments will be provided)



March 5, 2024:

City of Ottawa

March 7, 2024:

UCLG, UCPR, SDG



FLOOD FORECASTING & WARNING

ANNUAL INFORMATION SESSION FOR MUNICIPALITIES AND EMERGENCY RESPONDERS

Please join us in person:

South Nation Conservation Office
38 Victoria Street, Finch, Ontario

Thursday, March 7, 2024
10 AM to 2 PM

Lunch and refreshments will be provided





Watershed Snow Surveys



First snow survey of 2024

- 10 samples taken at 7 survey sites in SNC watershed
 - Surveys taken twice a month
- Important information for flood forecasting and warning



Spring weather in winter?



- Unusual Weather: Another minor Freshet event in February
- Temperature of 10°C on February 9th
- Adaptation is necessary as the unusual activity is becoming the new normal

South Nation River at the Chesterville Dam



Chesterville Dam – Log Lifter Repair

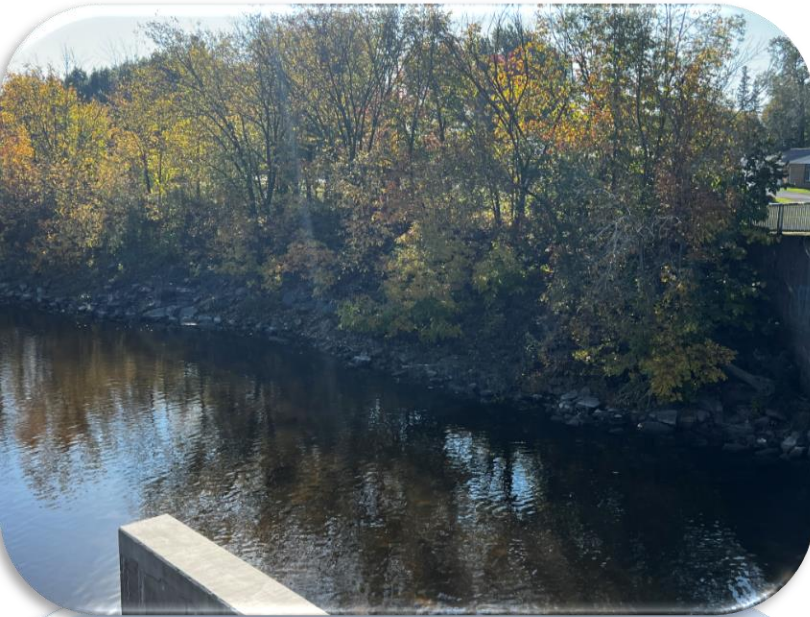


Log Lifter removing stop log at Chesterville Dam

- Specialized equipment
- 40 years old
- Difficulty finding contractor to complete the upgrade



Water Control Structures – Chesterville Dam



Before tree removal



After tree removal

- Problem trees damage the embankments as they topple over; threaten embankment integrity



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Natural Hazards Mapping

February 15th, 2024





Mapping Natural Hazards



Erosion on private property, Embrun, Ontario, 2017

Natural hazard mapping identifies **floodplains** and **riverine erosion hazard** areas on the landscape

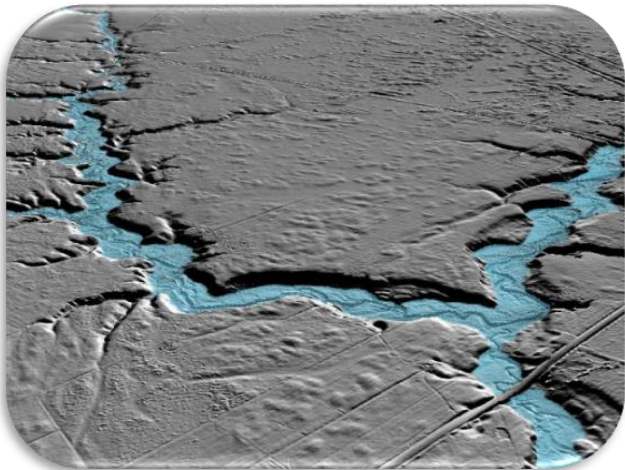


Castor River flooding, Ontario, April 2014

Natural hazards are identified to ensure **safe and sustainable development** and to **protect people and property**.



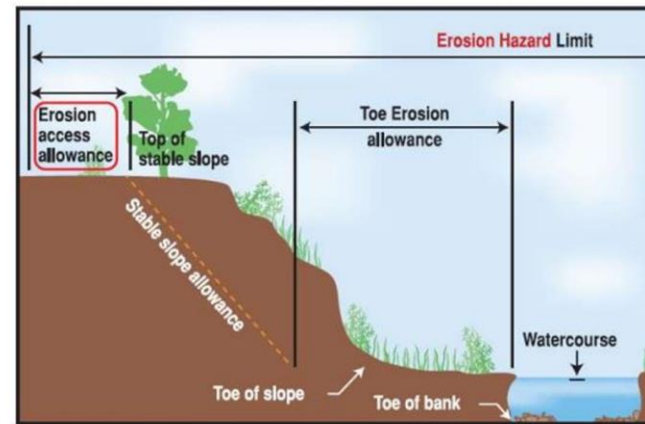
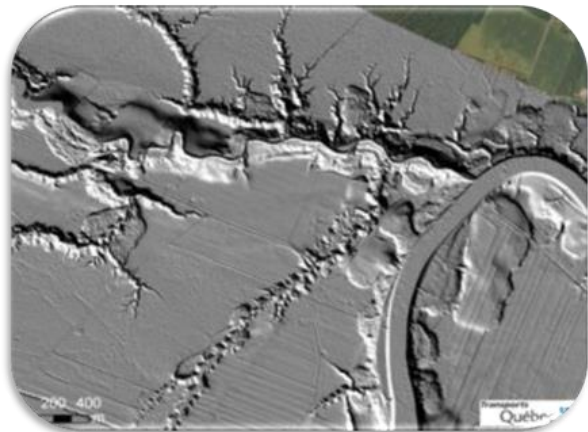
Hazard 1: Floodplain



- **Floodplains** are low lying areas next to a watercourses that are not ordinarily cover by water.
- **Provincial Standards:** 100 Year Flood Event Standard, which has a 1% chance of occurring in any given year.
- **Floodplain is mapped using a combination of on-the-ground field work and computer modelling.**



Hazard 2: Riverine Erosion

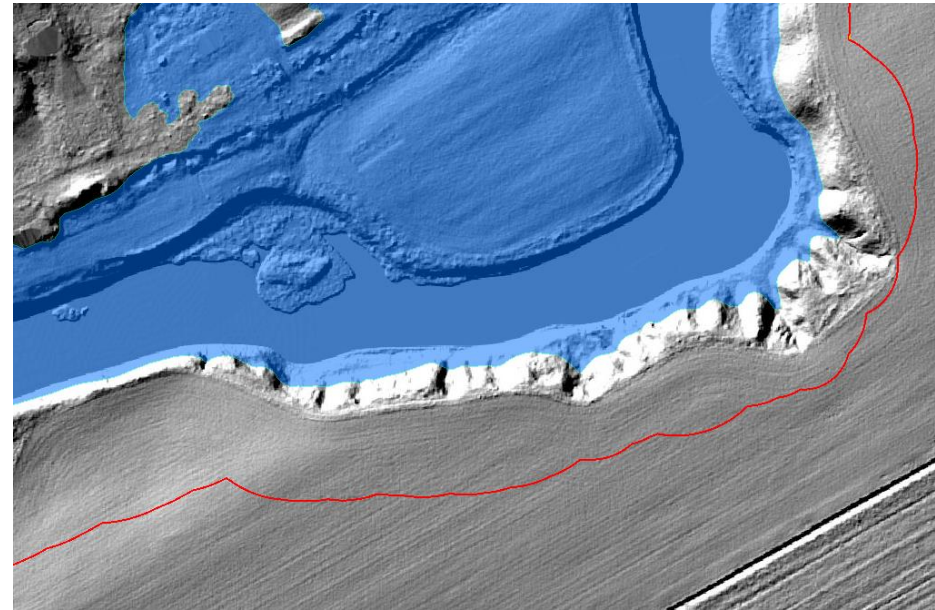


- **Erosion hazard** areas are areas potentially subject to land regression. **The Riverine Erosion Hazard Components:** slopes stability, toe erosion, access and meander belt.
- **Provincial Standards:** 100 Year Erosion Rate Standard which is the average annual rate of recession extended over a hundred-year time span

Mapping erosion hazard is a GIS desktop exercise using LiDAR and aerial photography



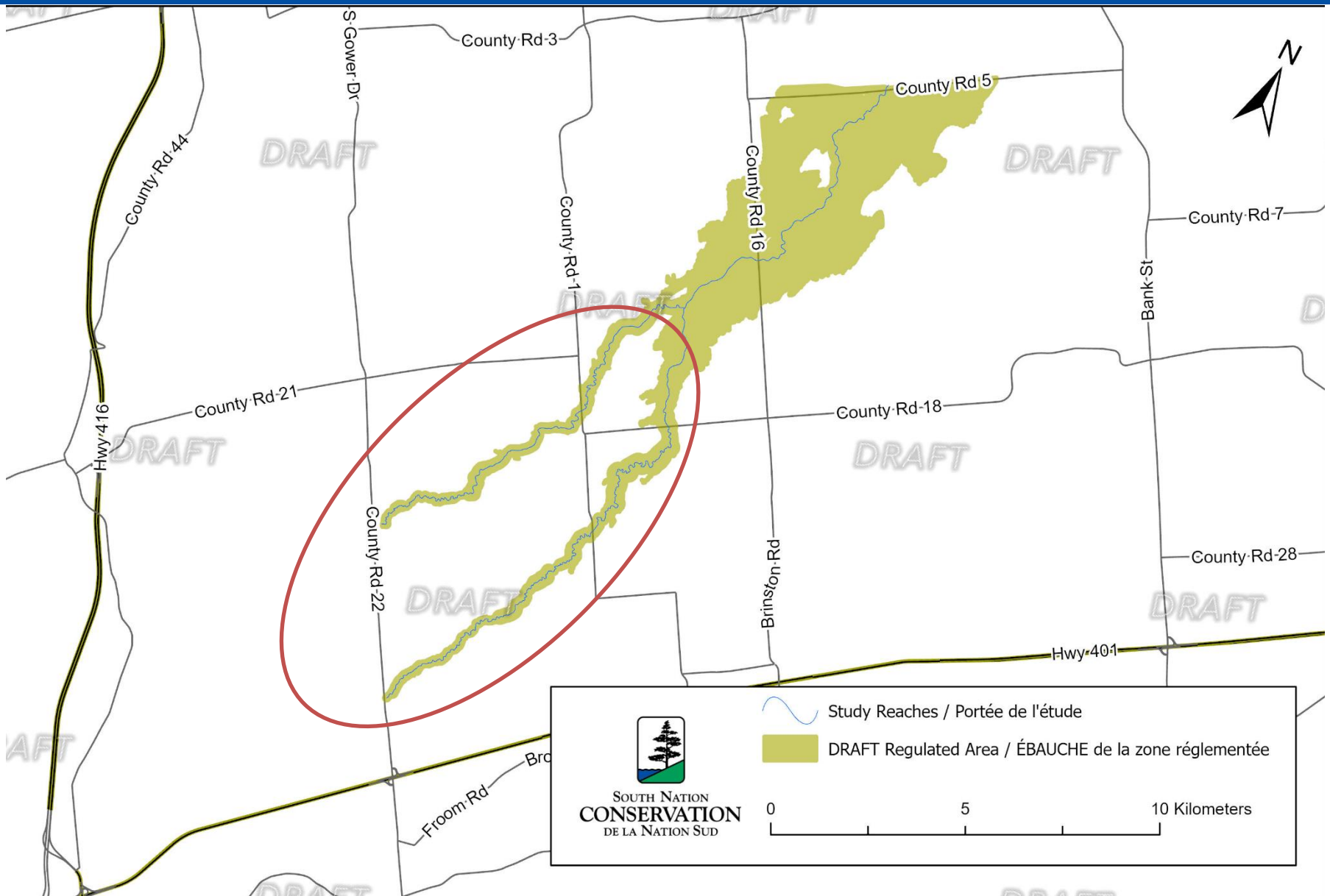
Regulation Line



Regulation Line is determined by greatest hazard of either floodplain or riverine erosion hazards

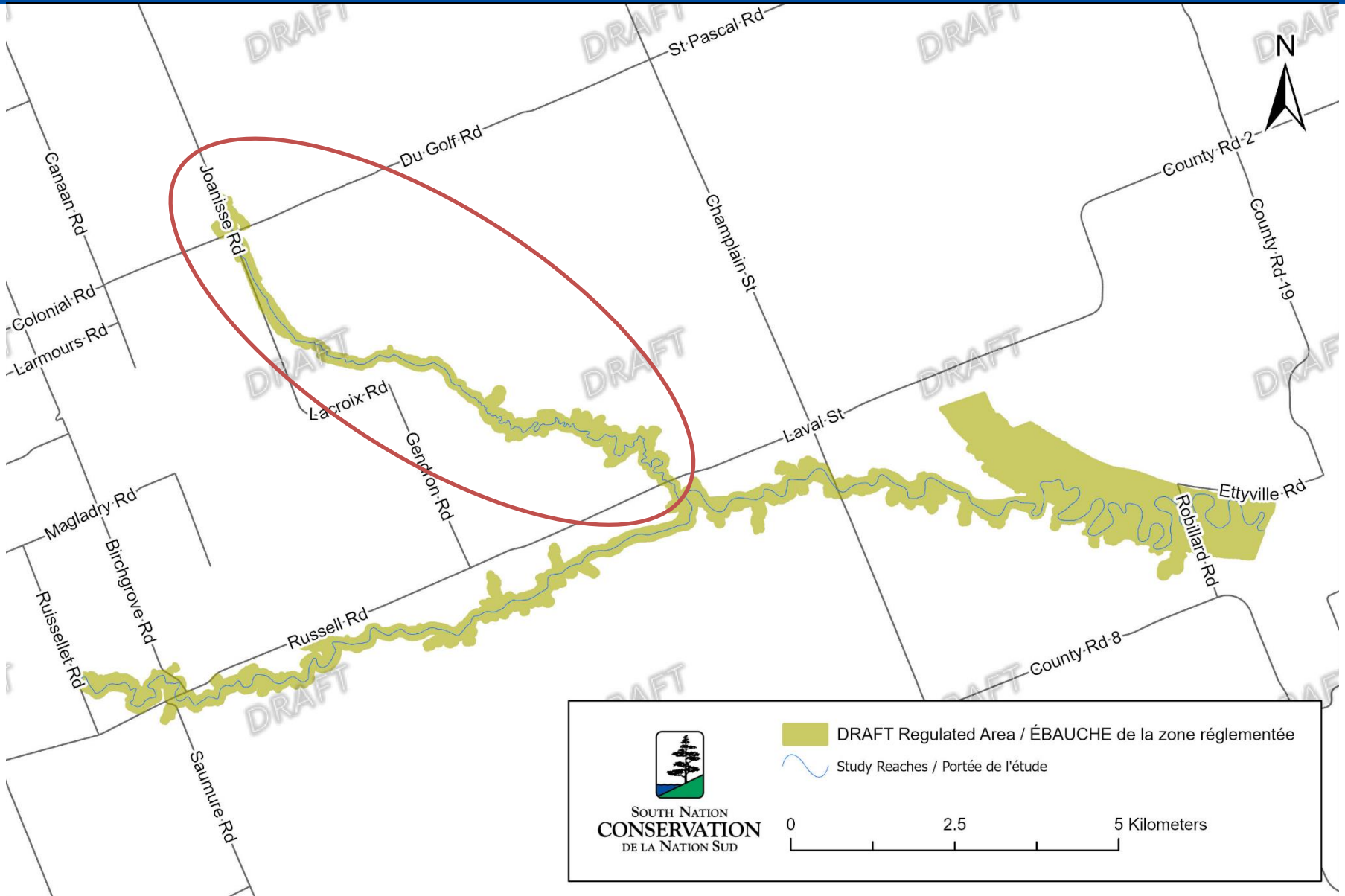


South Branch of the South Nation River Regulation Line



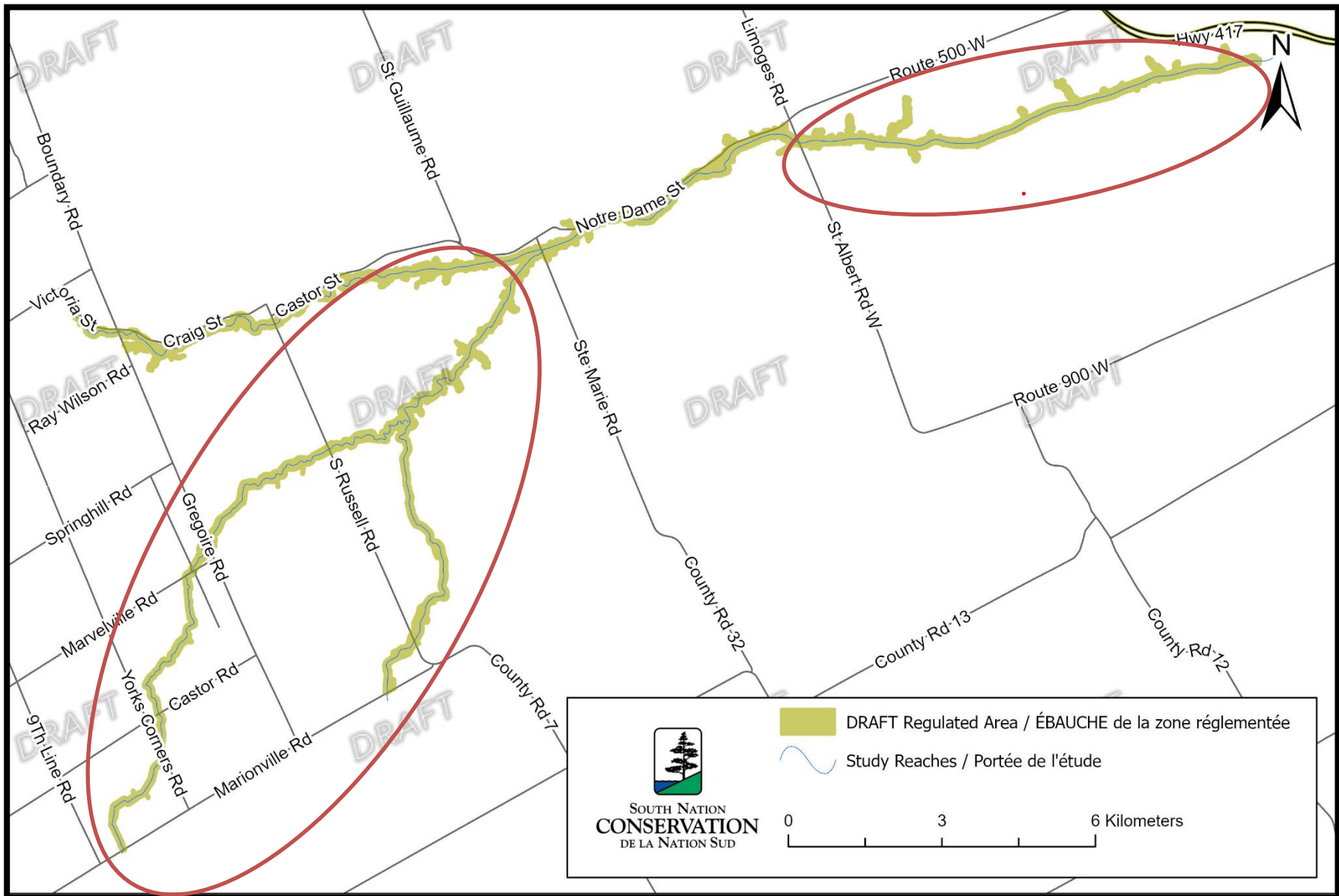


Bear Brook Regulation Line





Castor River Regulation Line





Emergency Tools



- Developing Emergency Management Tools: water depth, access and egress, water velocity, extent of flooding area during flood event.
- To identify vulnerable buildings, roads, and driveways within these flood extents.
- Defining the potential flood extents as climate changes, 200, 350, 500, and 1000 year storm



Natural Hazard Mapping Virtual Open House



Social Media Campaign, January 2024

- Virtual Open Houses to view new and updated natural hazards mapping:
 - South Branch - February 20th
 - Bear Brook - February 21st
 - Castor River - February 26th

Our Local Environment, We're in it Together.



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