



South Nation  
**Conservation**  
de la Nation Sud

# Project Update

June 11<sup>th</sup>, 2026





# New Staff: Emma Padbury



- Honours BSc in Environmental Geography at Queen's University
- Enjoy gardening, kayaking, and puzzles!
- Excited to be joining again this summer as an Ontario Federation of Anglers and hunters (OFAH) student!



# New Staff: Merrick Landry



- Entering my 2<sup>nd</sup> year of Fish and Wildlife Technician program at Fleming college, Frost campus.
- I enjoy catching and observing reptiles and amphibians, motorcycles, and skiing during the winter.
- I am excited to learn more about all the different invasive species that can be found around us.



# Septic Program Annual BBQ Meeting



- Held on May 15<sup>th</sup> at SNC
- Over 50 contractors/  
municipal staff  
attended with SNC staff
- Great event to update  
and say thanks to  
partners



# Events on the South Nation River



South Mountain Duck Race, Township of North Dundas

- South Mountain Duck Race on May 2<sup>nd</sup>
- Community Fishing Event in St. Albert on May 9<sup>th</sup>
- Annual Spencerville Mill Poker Run on May 23<sup>rd</sup>



Community Fishing Event, Township of North Stormont



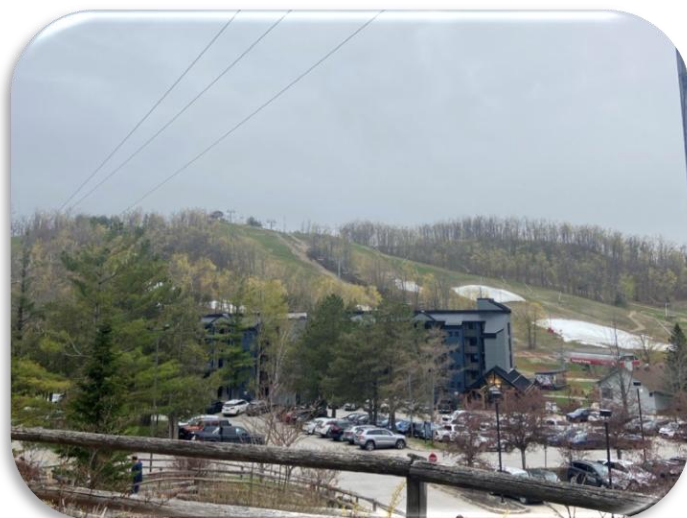
Spencerville Mill Poker Run, Township of Edwardsburgh-Cardinal



# CACIS Conference



SNC Drone Program Presentation



Horseshoe Resort, Barrie ON

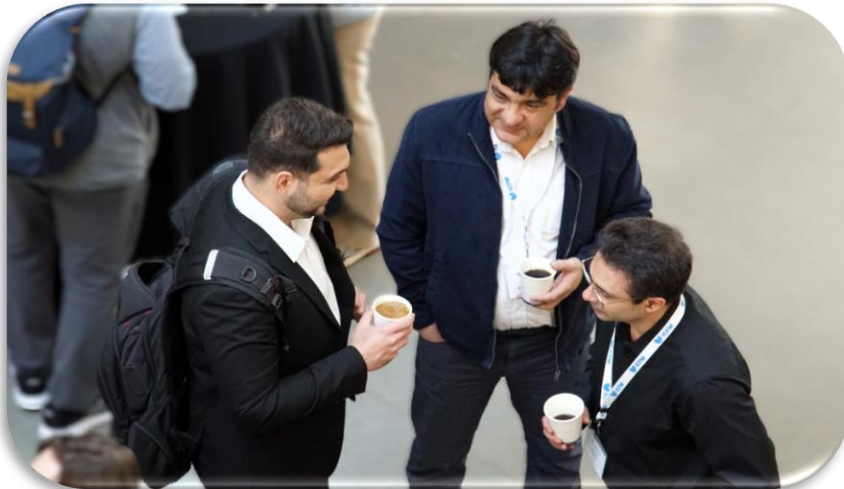
- SNC Staff attended the annual Conservation Authority Collaborative Information Sessions (CACIS) Conference to connect with GIS and IM/IT professional from CA's across Ontario
- May 12-13 at Horseshoe Resort in Barrie, ON



# 10<sup>th</sup> International Conference on Flood Management



- Staff attend the ICFM 10, held at the University of Western Ontario from May 20 to 23





# Approvals Team: Training & Workshops



Eastern CA Planning & Regulations Meeting 2026- Kingston



Ontario Association of Committees of Adjustment & Consent Authorities



# Conservation Authority University Grads



- Final 4<sup>th</sup> module completed in May
- Focus on CA Programs & Services
- 4 SNC graduates in 2026

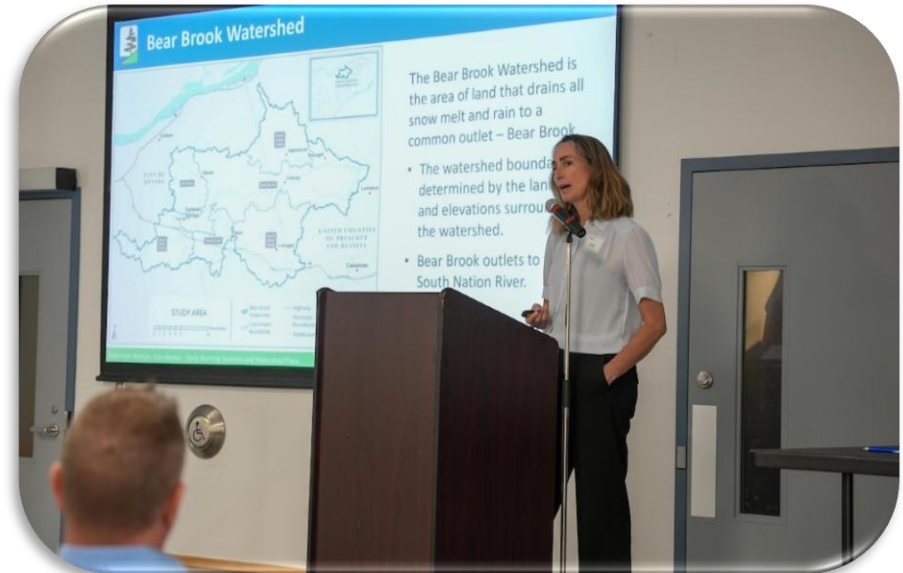


# Bear Brook Watershed Study: June 2<sup>nd</sup> Public Information Center



Photos: Radio-Canada/Nelly Alb  rola

- PIC Focused on Flood Mitigation Options in Bear Brook
- Presentation by SNC staff and AECOM, followed by one-on-one discussions
- Feedback Form open till June 22<sup>nd</sup>





# The Healing Place – Spring Planting

- Healing Place partners and 4 schools planted the 3 Sisters Garden on May 28<sup>th</sup>, June 4<sup>th</sup>, and June 8<sup>th</sup>
- OPG provided funding for approximately 150 fruit and nut trees/shrubs





# Springhill Pollinator Meadow Project



- Volunteer event on World Environment Day and Make a Difference Week
- ~30 volunteers and staff sowed 32 acres of land with a native seed mix



# SNC Tree Planting Programs



- Over 94,000 trees planted or given this spring
- Only the beginning, we are expecting to plant at least another 50,000 – 75,000 trees this Fall
- Lots of interest for the Resilient Agricultural Landscape Program (RALP) with over 20 requests



# SNC Staff Site Visits – Grant Programs



Severe gully erosion in a fine-sand soil type

- Valuable site visits by SNC staff
- Talk about causes, solutions, and funding mechanisms to help landowners





# Stewardship Field Work



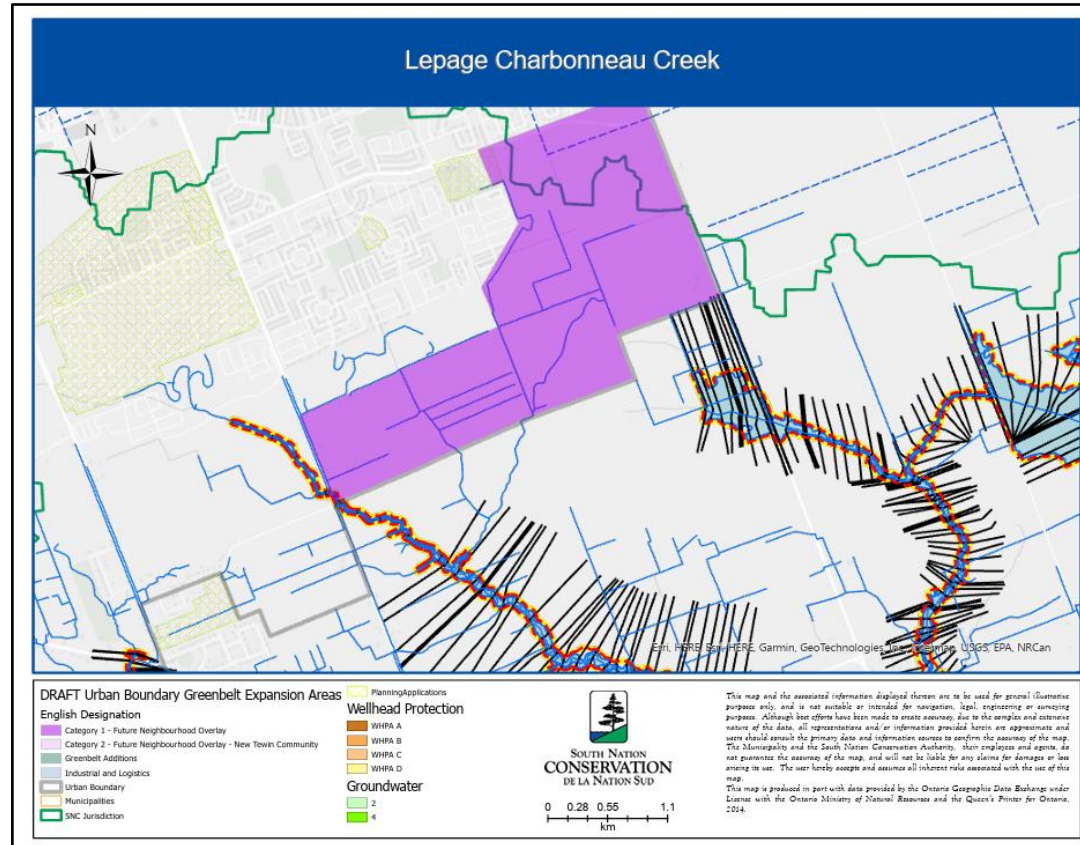
*Arisaema triphyllum*, the Jack-in-the-pulpit,  
Leitrim Property, City of Ottawa, June 9, 2026

- Bird surveys
- Property natural history inventories
- Invasive species assessment



# Lepage Charbonneau Creek Hydraulic Model

- 3.8 km of Lepage Creek hydraulic model under development
- Located within the E1 (Ottawa expansion area)
- Drains to McKinnons Creek





# Watercourse Crossing Survey



South Nation  
Conservation  
de la Nation Sud

DATABASE ENTRY BY:  
ENTRY DATE:  
DATA ENTRY REVIEWED BY:  
REVIEW DATE:

Crossing Location and Site Information		Current Flow Information	
Crossing #:	Public <input type="checkbox"/> Private <input type="checkbox"/>	Flow Present (Y/N):	
Staff onsite:		Approx. Depth (mm):	
Date (dd/mm/yyyy):		Upstream Erosion (Y/N):	
Street Name:		Downstream Erosion (Y/N):	
Stream Name:		Additional Flow Information / Field Notes:	
Reach Name/ ID:			
Municipality:			
Datum (Horizontal and Vertical):			
Coordinates Reference System (CRS):			
Structure Configuration and Dimensions			
Structure Type:	Culvert <input type="checkbox"/> Bridge <input type="checkbox"/> Multiple Culvert <input type="checkbox"/> Obstacle <input type="checkbox"/> Inaccessible <input type="checkbox"/>		
Partially Inaccessible <input type="checkbox"/>	Removed Crossing <input type="checkbox"/> No Crossing <input type="checkbox"/> Other <input type="checkbox"/>		
Structure Condition:	Good <input type="checkbox"/> Fair <input type="checkbox"/> Poor <input type="checkbox"/> Deformed <input type="checkbox"/> Blocked <input type="checkbox"/> Partially Blocked <input type="checkbox"/>		
Number of Opening:	Open Footing (Y/N):		
*Opening Shape:	1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> Other <input type="checkbox"/>		
Material:	Concrete <input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Wood <input type="checkbox"/> Rock/Stone <input type="checkbox"/> Other <input type="checkbox"/>		
Opening Height (m):	Opening Width/ Span (m):		
Length of Opening (m):	Is the culvert perched downstream (Y/N)?		
Crossing Alignment:	Flow aligned <input type="checkbox"/> Skewed <input type="checkbox"/> Angle (Degree)		
Parapet Type:	Concrete <input type="checkbox"/> Steel Railing <input type="checkbox"/> Timber <input type="checkbox"/> No parapet <input type="checkbox"/> Other <input type="checkbox"/>		
Parapet Height (m):	Parapet Length (m):		
**Road width (Includes Shoulder) (m):			
Road Fill Height (Top of culvert to road surface; bridge = 0)(m):			
***Inlet Type:	Projecting <input type="checkbox"/> Grooved Pipe with Headwalls <input type="checkbox"/> Grooved Pipe Projecting <input type="checkbox"/>		
Square Edge with Headwalls <input type="checkbox"/>	Beveled Edge with Headwalls <input type="checkbox"/> Mitered <input type="checkbox"/> Wingwalls <input type="checkbox"/> Other <input type="checkbox"/>		
Pier Measurement	Diameter (m)	Width (m)	Length (m)
Pier 1			
Pier 2			
Pier 3			

\* Refer to page 2  
\*\* If Applicable and Safe to Proceed  
\*\*\* Refer to survey Guide

1

Observation  
Location  
Date

Watercourse Crossing Field Survey – Quick Guide  
June 2026

To help field staff complete the survey sheet accurately and consistently, even in the field, this guide provides a brief description or sketch as needed.

Location before collecting data. If it is ready (Trimble, tape, camera), verify the datum and Coordinates Reference System (CRS). Note (Upstream → Downstream).

**Measurement Guidelines**

Use the type that best represents the site conditions; if the structure includes more than one type, select 'Multiple Culvert'. Use 'Obstacle' where flow is obstructed but no crossing exists. If the structure cannot be safely accessed or fully assessed, select 'Partially Inaccessible' as appropriate. If a crossing previously existed but has been removed, select 'Removed Crossing', and if no crossing is present at the site, select 'No Crossing'. If any of the options fully apply, select 'Other' and provide a brief description in the field notes.

Measurements should be assessed visually and categorized based on observed defects: none, blockage, partially blocked, good, fair and poor. Provide additional information if unclear or falls between categories.

Use the drawing template for a typical culvert opening shape; select the shape that most closely matches the structure in the field and use the corresponding all relevant dimensions directly on the sketch. If the structure does not match the template, choose the closest shape and modify it as needed by adding additional measurements to accurately reflect site conditions. If the shape is irregular, select 'Other' and provide a clear sketch with all required dimensions. Ensure that all important details are captured even if they are not shown in the template. Please clearly indicate the North direction and flow direction. For multiple openings (e.g., twin or multiple culverts), provide an overall plan view showing all openings, their relative positions, spacing between them, and North direction. Each opening shall then be documented on the appropriate drawing template, clearly identifying the opening (e.g., 'Culvert 1, Culvert 2) and recording all relevant dimensions for each opening.

1

Apex of this guide: please review Figure 2 and select the structure in the field. If none of the options fully apply, provide a brief description or sketch as needed.

Measurements must be measured based on the clear flow line (invert to crown, and width from inside stream) to provide the effective flow area, not external dimensions.

Measurements must be taken at a maximum spacing of 15 m (50 ft).

Measurements should be collected at the lowest point inside the culvert at both ends and clearly distinguish between upstream and downstream.

Measurements should be taken at the time of survey at representative locations upstream and downstream affected by local disturbances (e.g., eddies or debris).

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2

3

## GUIDELINE OVERVIEW



### 1. Before You Start

- Confirm Structure ID, location, and flow direction.
- Ensure all equipment is ready.
- Set datum and CRS properly.



### 2. Data Collection & Measurements

- Select correct structure type and assess condition.
- Measure opening dimensions, culvert length, road fill height, parapet, road width, and elevations.
- Identify inlet type, opening shape, alignment, and material.
- Record accurate field notes and observations.



### 3. Photographs Required

- 6 standard photos from specific angles.
- Capture upstream, downstream, and through the structure.
- Include overtopping section view.



### 4. Cross Sections

- Two upstream and two downstream sections.
- Include channel bottom, water level, banks, and floodplain.
- Points must reflect key breaks in ground and hydraulic characteristics.



### 5. Additional Recommended Items

- Vegetation and land use around the crossing.
- Any obstructions or debris.
- Evidence of flooding or overtopping.



## Purpose

To collect consistent and accurate field data for assessing watercourse crossings and supporting engineering analysis and decision-making.



# Stormwater Management Facilities (SWMF) Inspection and Assessment

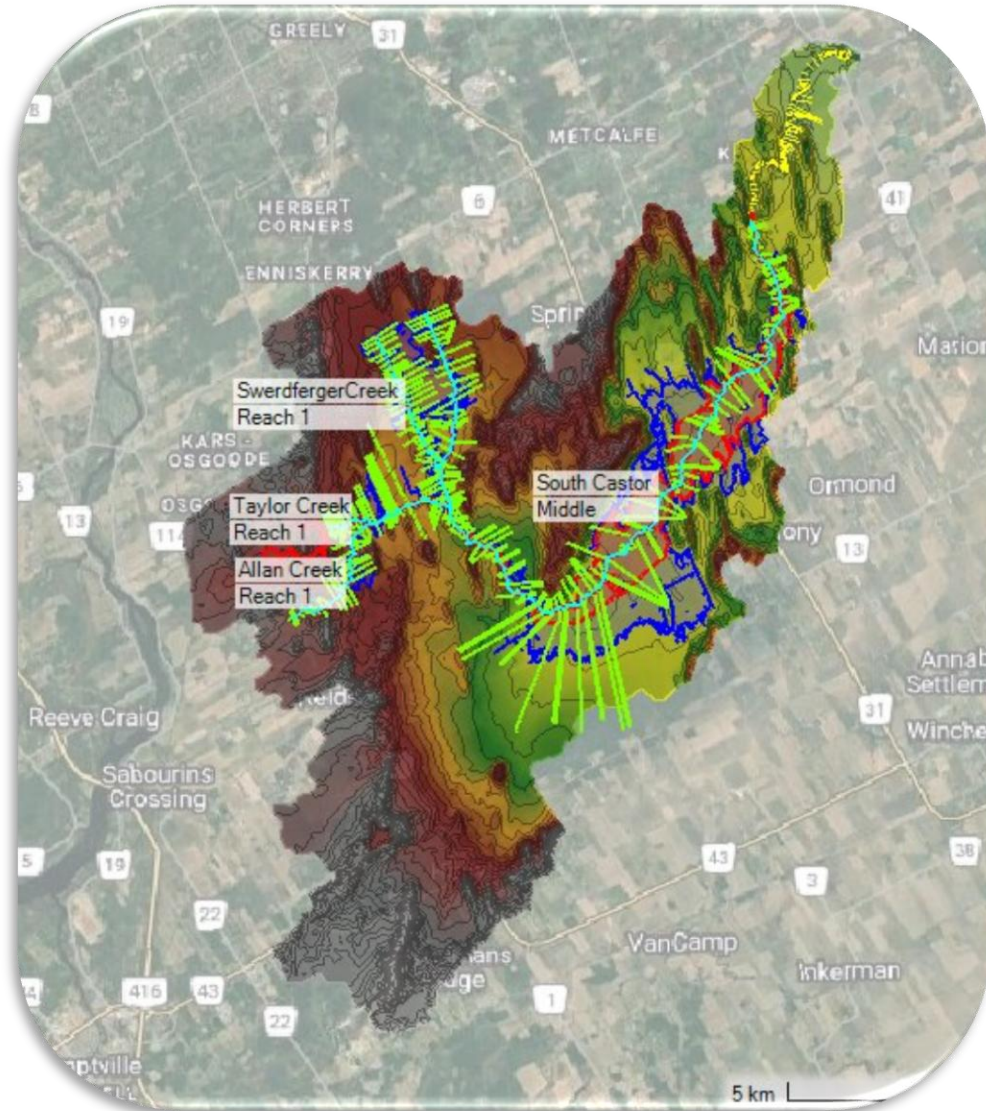


- The City of Clarence Rockland requested SNC to complete SWMF inspection and assessment for Levis Subdivision – Etienne Street
- The work includes review of the background, field inspection, survey and elevations verification, sediment assessment and final report

Levis Subdivision  
Etienne Street Stormwater Management Facility



# South Castor Floodplain Mapping



- Study area is about 246 km<sup>2</sup>
- Updates older floodplain mapping from 1992
- Completes the missing upstream South Castor floodplain mapping, including Allan, Lewis, and Swerdfeger tributaries
- Field survey and hydrologic modelling complete; hydraulic model is being finalized



# Monitoring – Maintenance and Equipment Updates



Mill Run telemetry box with damaged HD latches

- Spring maintenance complete at SNC climate/Provincial Groundwater Monitoring Network (PGMN) stations
- New equipment installations ongoing
- Repeated theft attempts at Mill Run Station
  - Will move station to a nearby SNC property



# Monitoring – Watershed Conditions

Percentage of Precipitation Received (as of June 10th)			
ECCC* Station	1-Month %	3-Month %	18 Month %
Ottawa	69.2	99.5	79.2
Kemptville	85.9	94.9	72.1
Brockville	81.7	99.2	73.0
Cornwall	82.4	97.1	80.1

\*ECCC Station – Environment and Climate Change Canada

- A Level 1 condition occurs when the 3-month or 18-month total precipitation drops below 80% of the historical total
  - Some long-term effects from last year's drought in 18-Month indicator
  - Rainfall this week will "bump" the percentages
- Water levels and flows are currently in the normal range for this time of year



# Water Control Structures - Inspections



Chesterville Dam Inspection, June 4<sup>th</sup>

- SNC's annual inspection of the Chesterville Dam and Chrysler Dam was completed on June 4<sup>th</sup>
- Remaining water control structures owned by SNC will be inspected on June 18<sup>th</sup>



# Water Control Structures – Casselman Dam

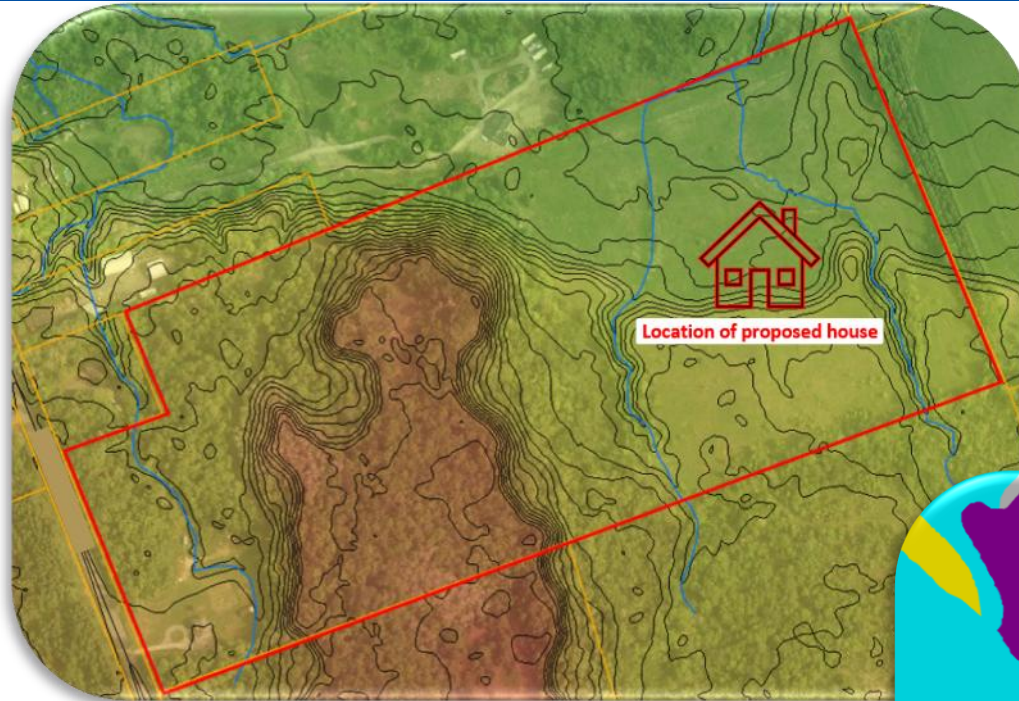


Drone image of Casselman Dam sluiceway  
August 2025

- We received partial funding of \$78,328 for Phase 1 repairs from the Water and Erosion Control Infrastructure (WEICI) committee
  - The program was oversubscribed this year
- Contractor secured
- Permitting process completed (Transport Canada, Department of Fisheries and Oceans, Ministry of Natural Resources, and SNC)



# Geotechnical Reviews – Unstable Soils



Aerial Imagery Showing the Site Extent, Escarpment, and Topography

- Slope height > 8 m
- Slope angle > 14 degrees
- Underlain by Leda Clay
- Within an old landslide scar

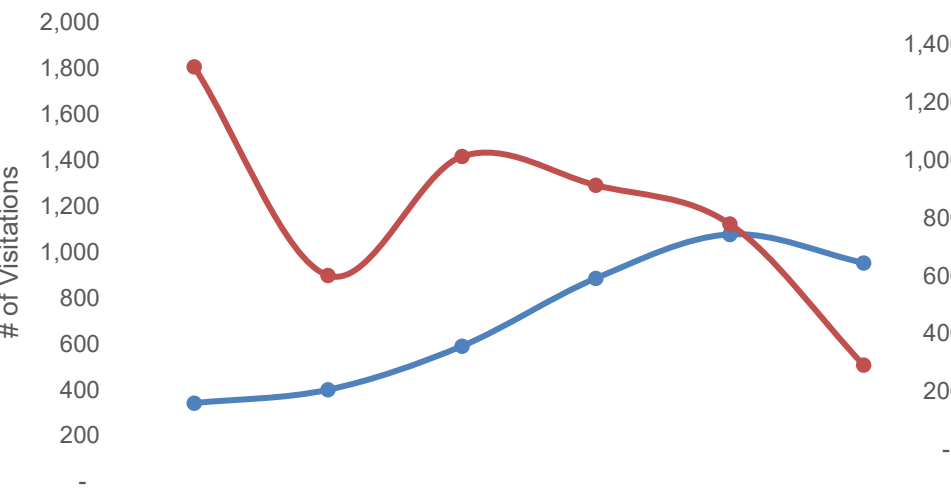


Imagery Showing the Site Location, Landslide Scars, and Soil Distribution

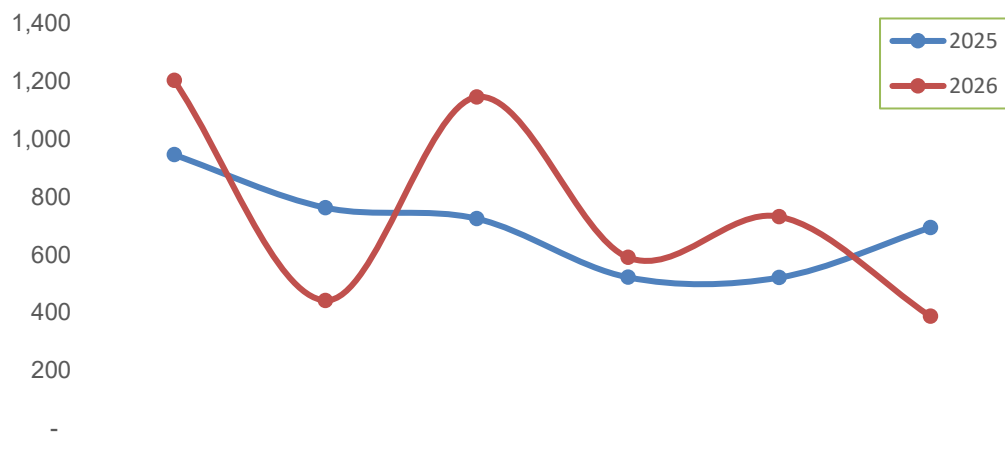


# Long Distance Trail Visitation Numbers

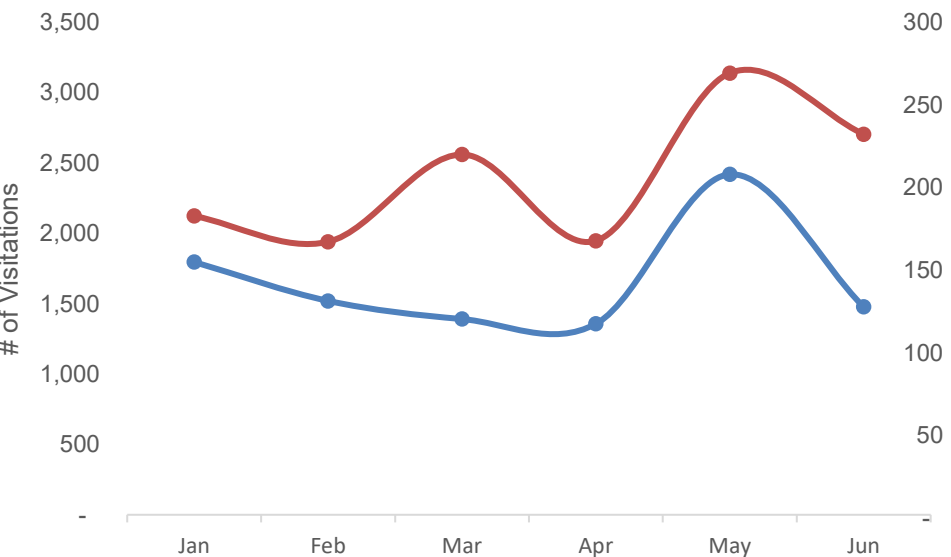
### Two Creeks Forest - 1.6%



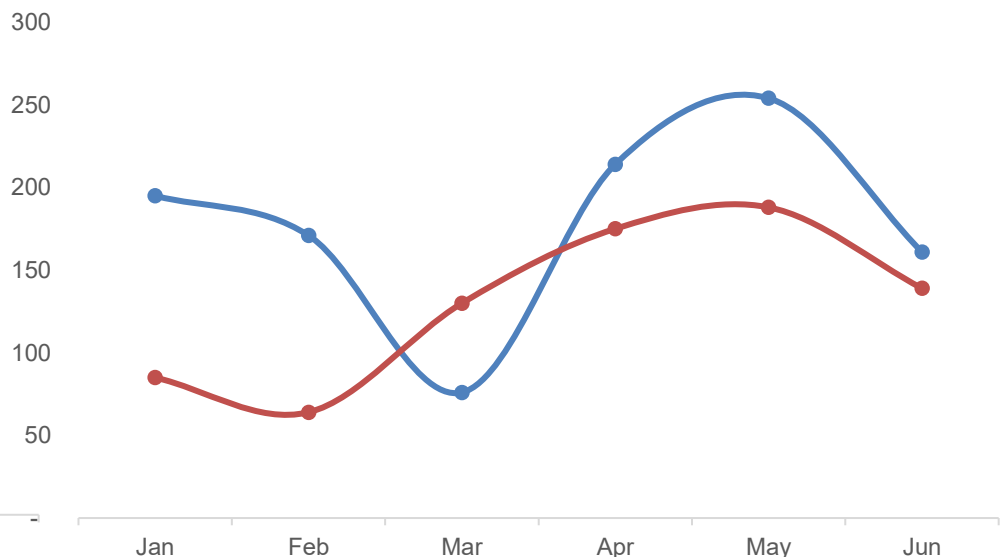
### Bob Graham Forest - 1.3%



### Warwick Forest - 8.8%



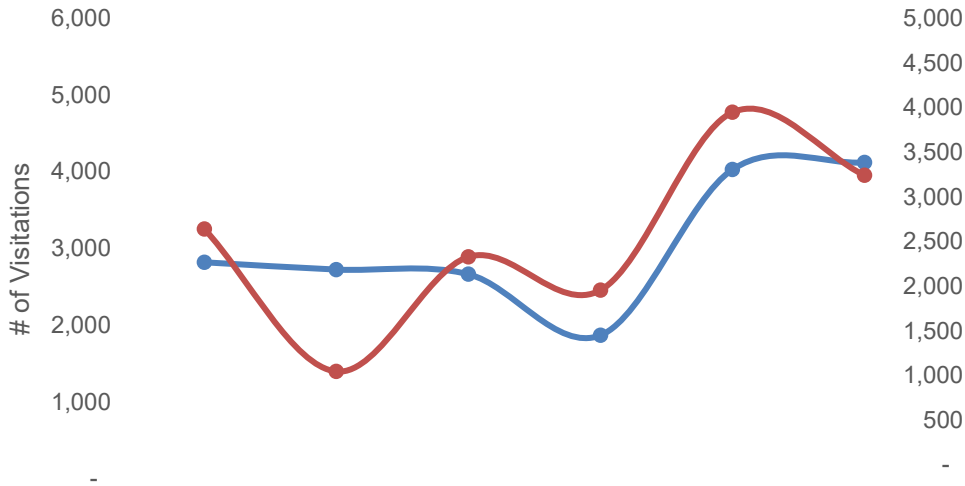
### Reveler - 0.5%



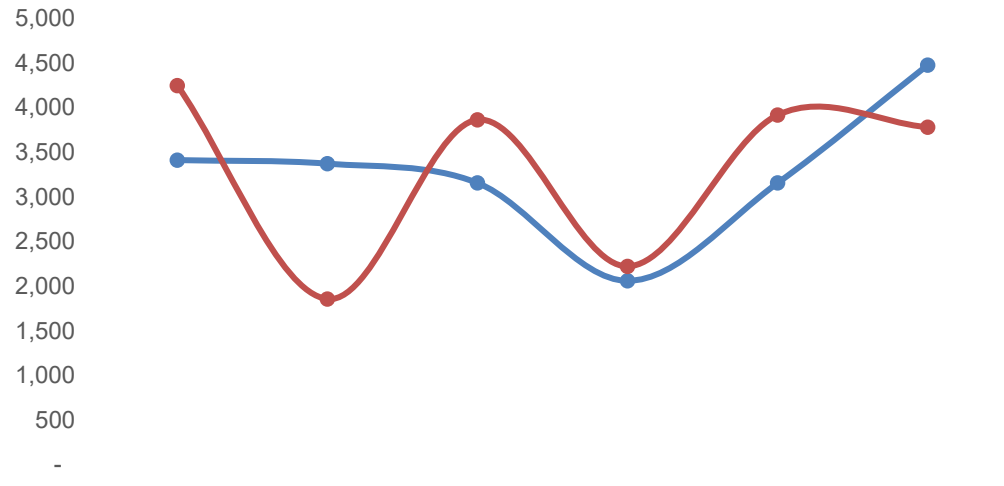


# Short Distance Trail Visitation Numbers

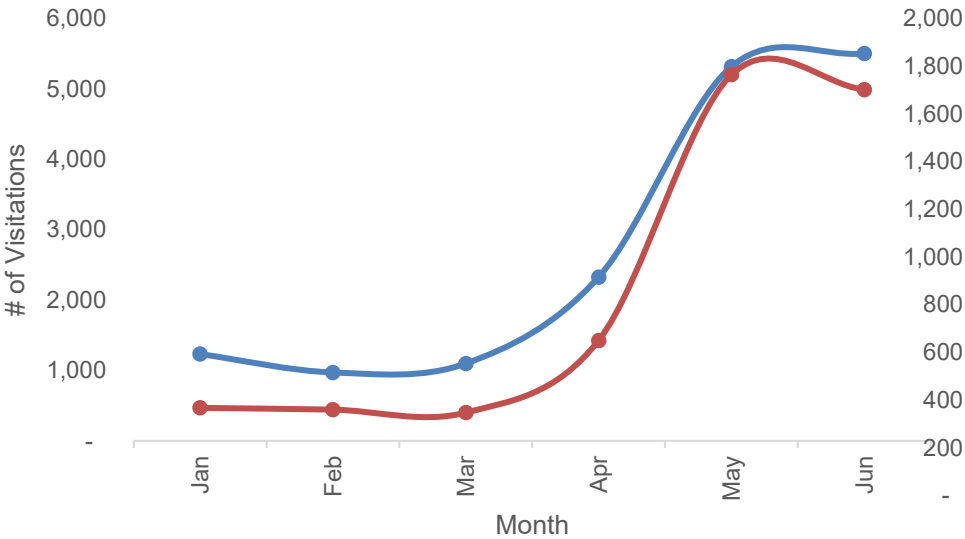
### J. Henry Tweed - 12.8%



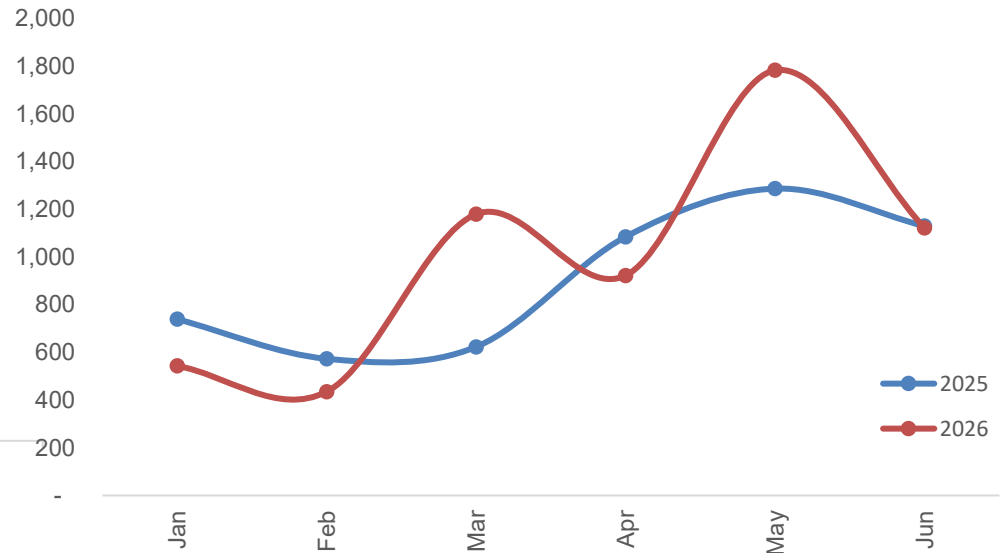
### W.E. Burton - 12.3%



### Findlay Creek - 16.2%



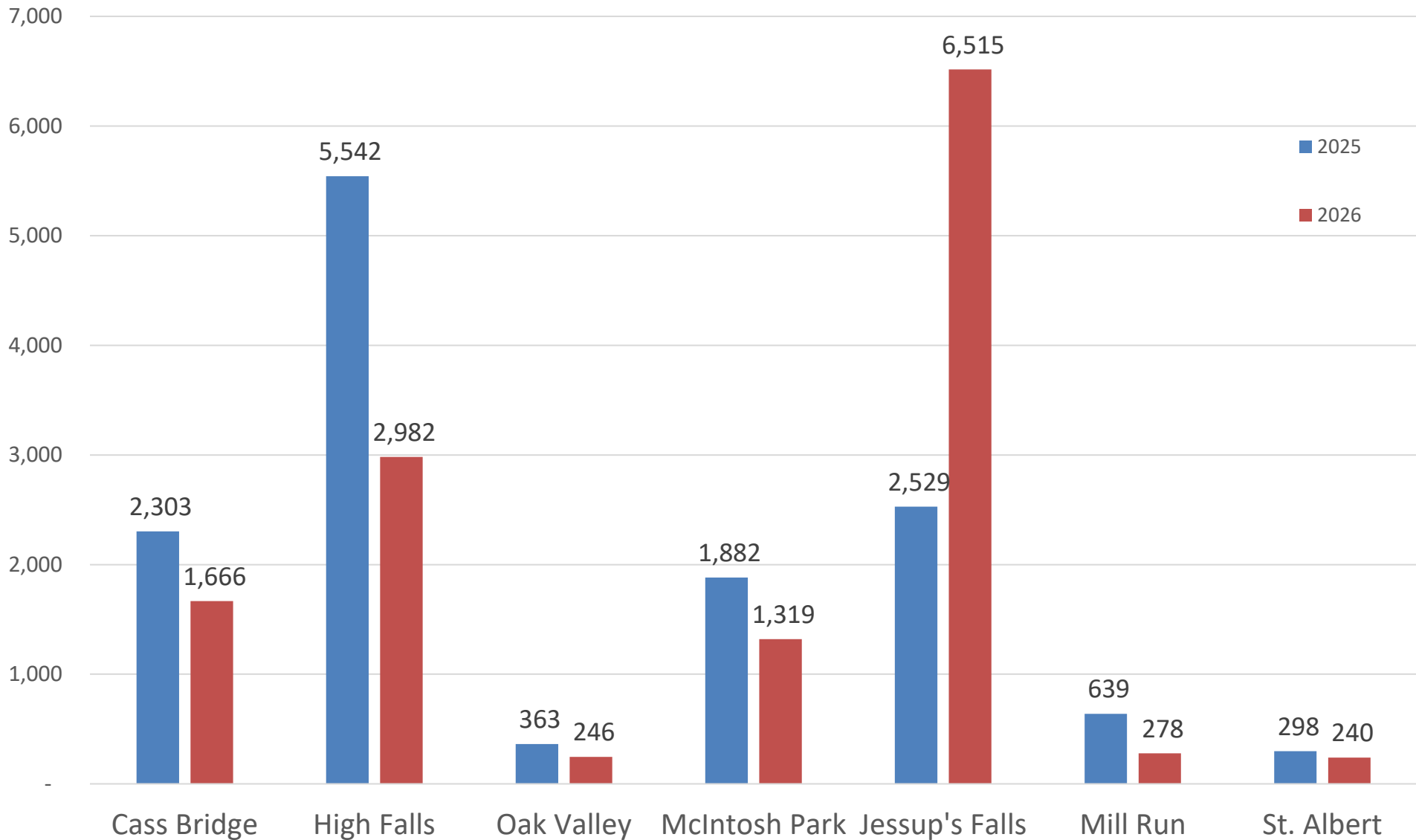
### Oschmann Forest - 3.6%



● 2025  
● 2026



# Recreational Area Visitation Numbers for June



Our Local Environment, We're in it Together.



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