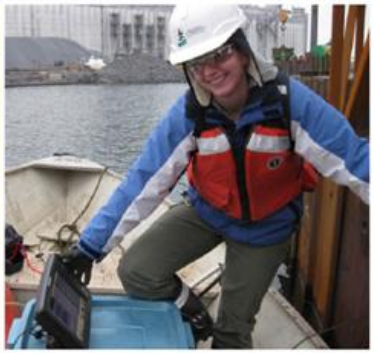
South Nation Conservation
de la Nation Sud

Project Update

June 11th, 2026



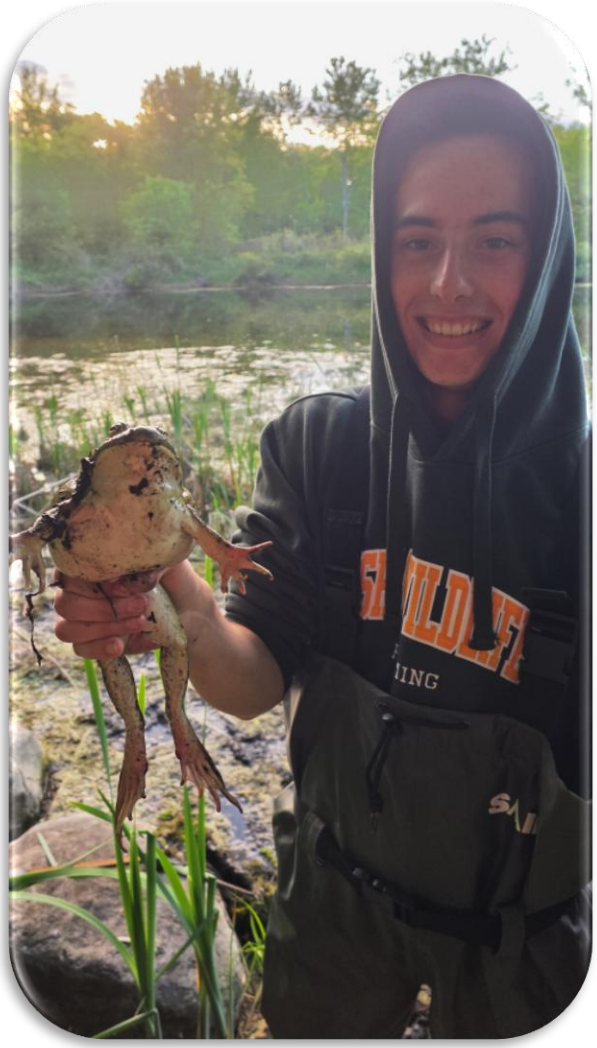




New Staff: Emma Padbury

- 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 2nd 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 15th 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 2nd
- Community Fishing Event in St. Albert on May 9th
- Annual Spencerville Mill Poker Run on May 23rd

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

10th International Conference on Flood Management

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

Sandra Mancini, Managing Director, Natural Hazard, and Infrastructure

Approvals Team: Training & Workshops

Eastern CA Planning & Regulations Meeting 2026- Kingston

Ontario Association of Committees of Adjustment & Consent Authorities

Conservation Authority University Grads

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

Bear Brook Watershed Study: June 2nd Public Information Center

Photos: Radio-Canada/Nelly Albérola

- 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 22nd

The Healing Place – Spring Planting

- Healing Place partners and 4 schools planted the 3 Sisters Garden on May 28th, June 4th, and June 8th
- 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

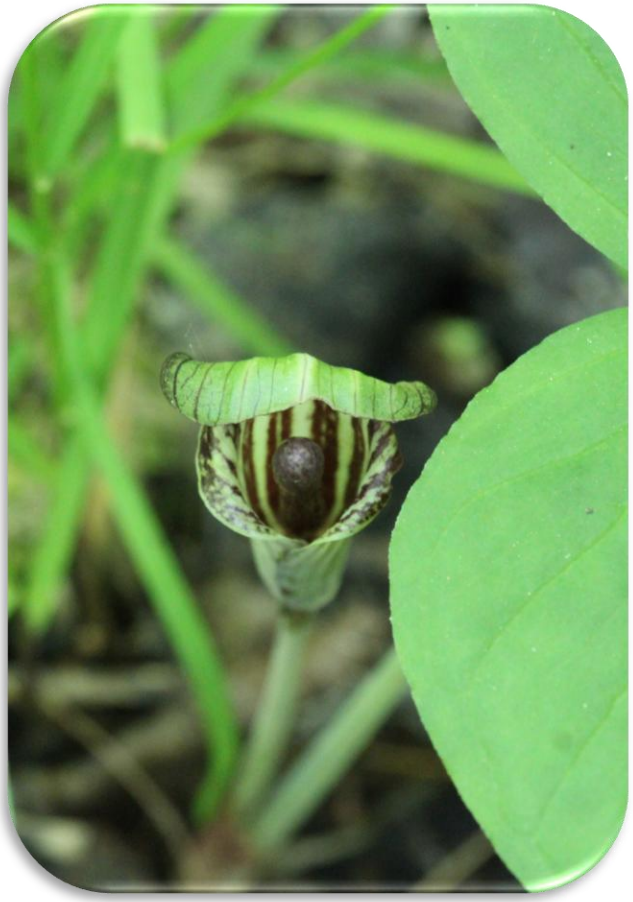
- Over 94,000 trees planted or given this spring
- Only the beginning, we are expecting to plant at least another 50,000 – 75,000 trees this Fall
- Lots of interest for the Resilient Agricultural Landscape Program (RALP) with over 20 requests

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

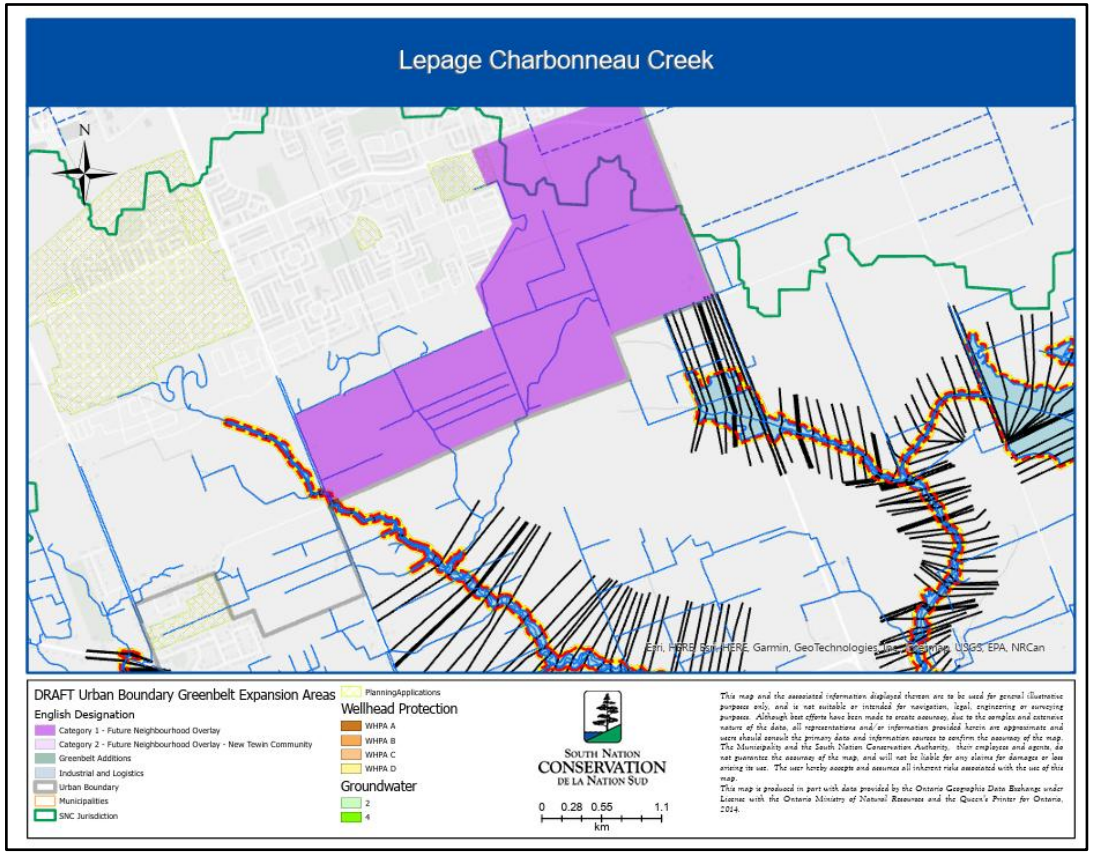


Arisaema triphyllum, the Jack-in-the-pulpit,
Leitrim Property, City of Ottawa, June 9, 2026

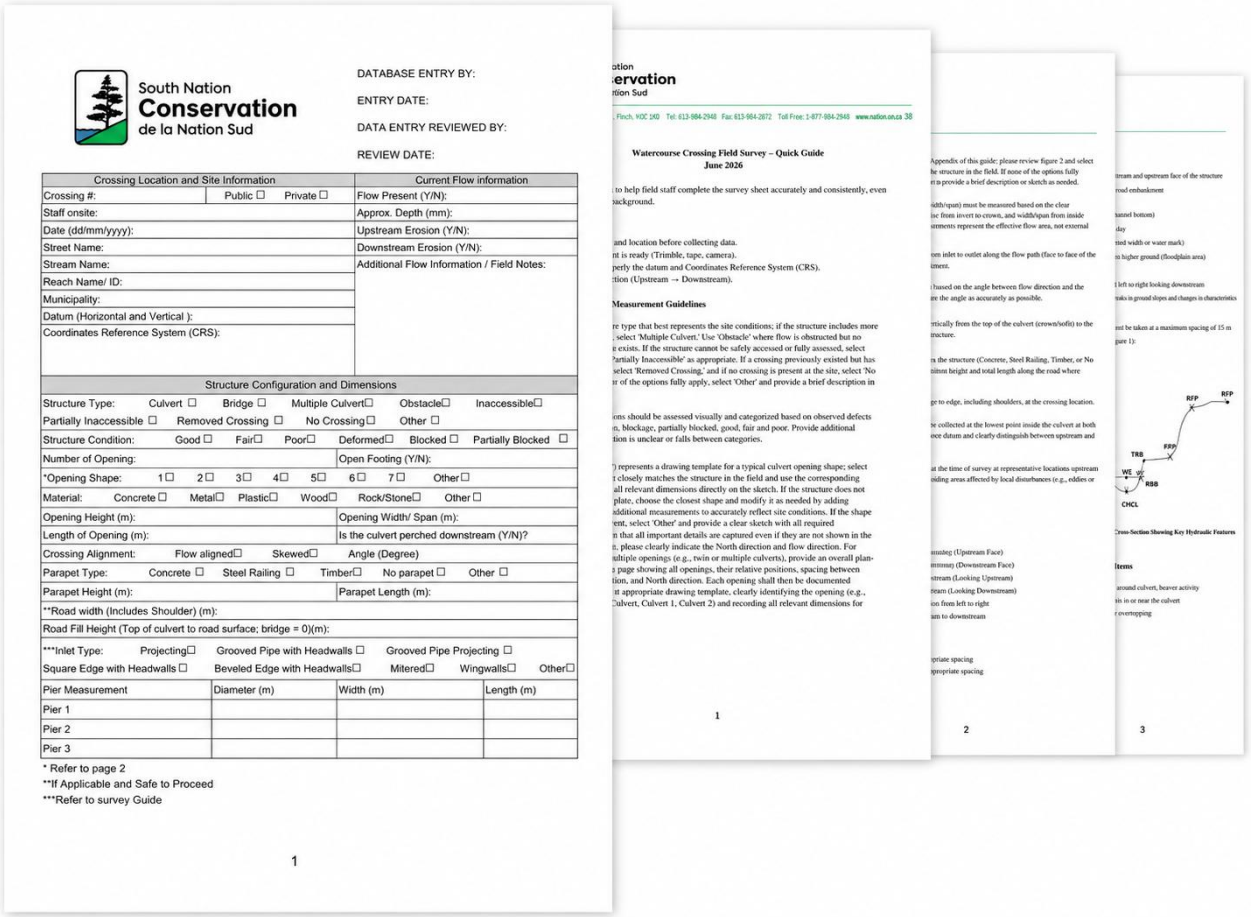
- Bird surveys
- Property natural history inventories
- Invasive species assessment

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 ☐ Private ☐	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 ☐	Bridge ☐	Multiple Culvert☐	Obstacle☐	Inaccessible☐		
Partially Inaccessible ☐	Removed Crossing ☐	No Crossing☐	Other ☐				
Structure Condition:	Good ☐	Fair☐	Poor☐	Deformed☐	Blocked ☐	Partially Blocked ☐	
Number of Opening:				Open Footing (Y/N):			
*Opening Shape:	1☐	2☐	3☐	4☐	5☐	6☐	7☐ Other☐
Material:	Concrete ☐	Metal☐	Plastic☐	Wood☐	Rock/Stone☐	Other ☐	
Opening Height (m):				Opening Width/ Span (m):			
Length of Opening (m):				Is the culvert perched downstream (Y/N)?			
Crossing Alignment:	Flow aligned☐	Skewed☐	Angle (Degree)				
Parapet Type:	Concrete ☐	Steel Railing ☐	Timber☐	No parapet ☐	Other ☐		
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☐	Grooved Pipe with Headwalls ☐	Grooved Pipe Projecting ☐				
Square Edge with Headwalls ☐	Beveled Edge with Headwalls☐	Mitered☐	Wingwalls☐	Other☐			

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

ervation
tion Sud

Watercourse Crossing Field Survey – Quick Guide
June 2026

1

2

3

Purpose

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

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.

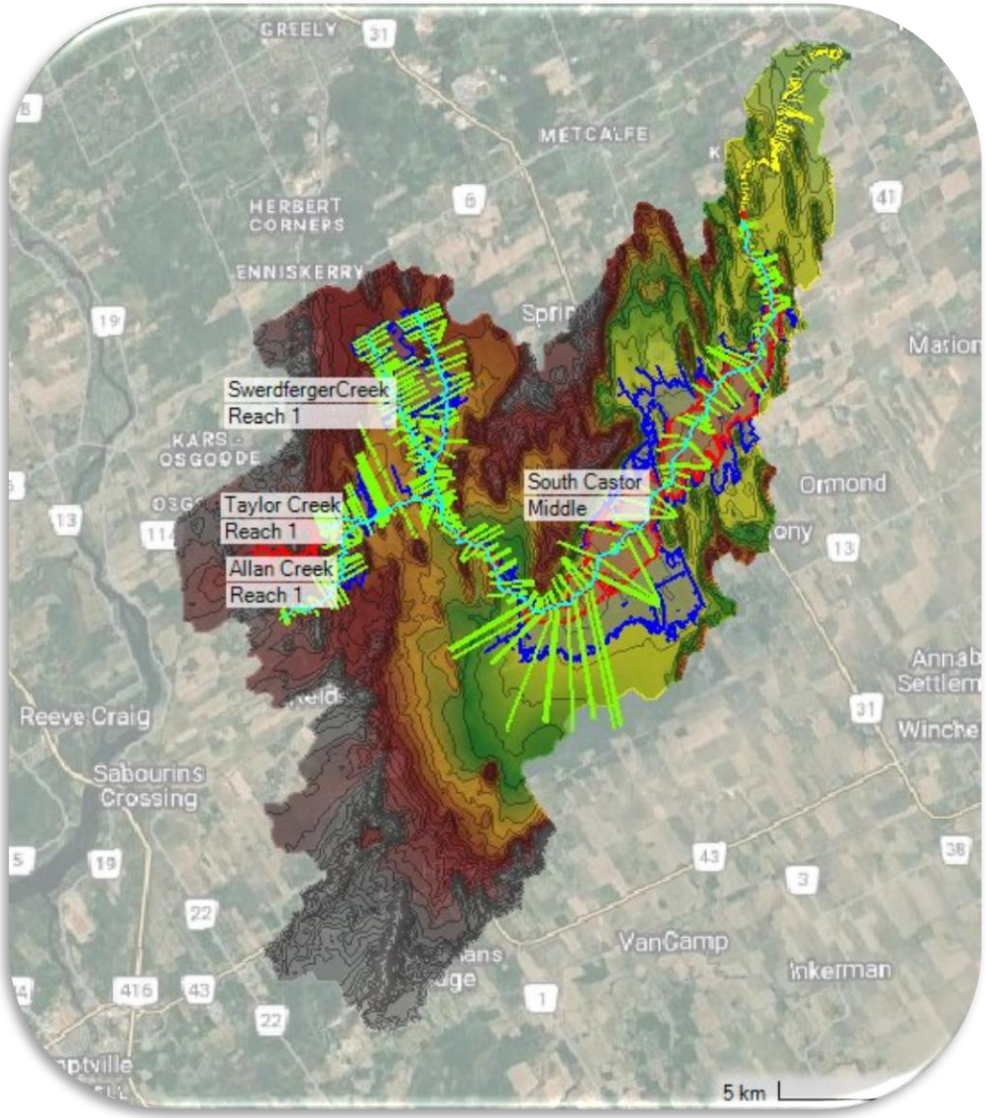
Foman Forough, Water Resources Specialist

Stormwater Management Facilities (SWMF) Inspection and Assessment

Levis Subdivision
Etienne Street Stormwater Management Facility

- 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

South Castor Floodplain Mapping



- Study area is about 246 km²
- Updates older floodplain mapping from 1992
- Completes the missing upstream South Castor floodplain mapping, including Allan, Lewis, and Swerdferger tributaries
- Field survey and hydrologic modelling complete; hydraulic model is being finalized

Shahin Zand, Water Resources Engineer

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 4th

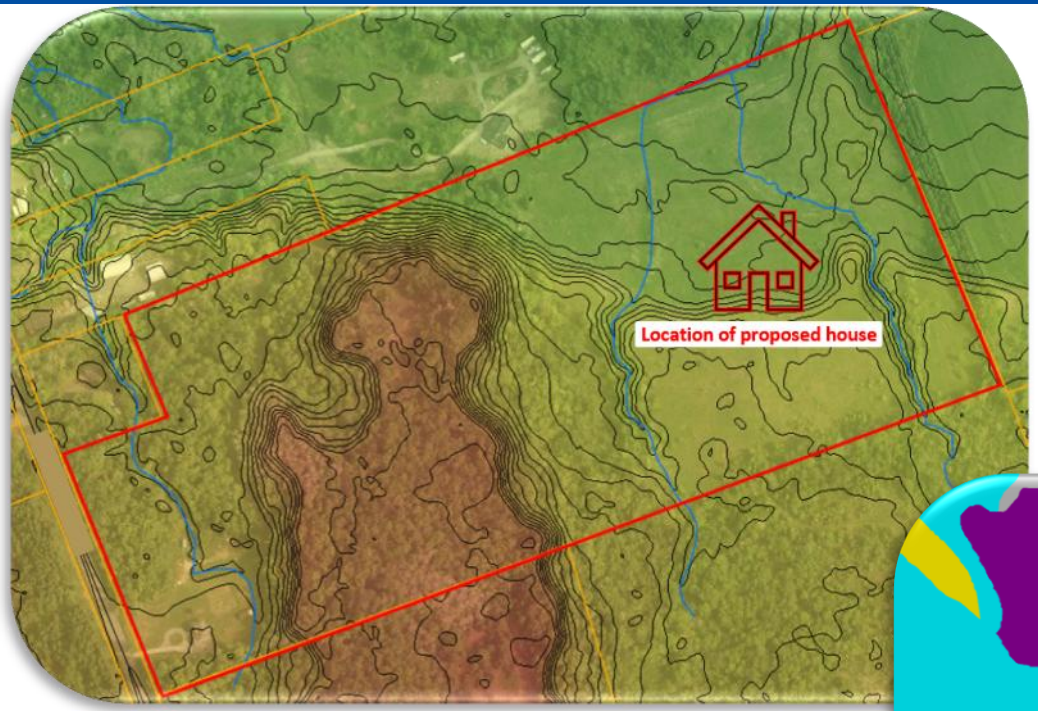
- SNC's annual inspection of the Chesterville Dam and Crysler Dam was completed on June 4th
- Remaining water control structures owned by SNC will be inspected on June 18th

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 (WECI) 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

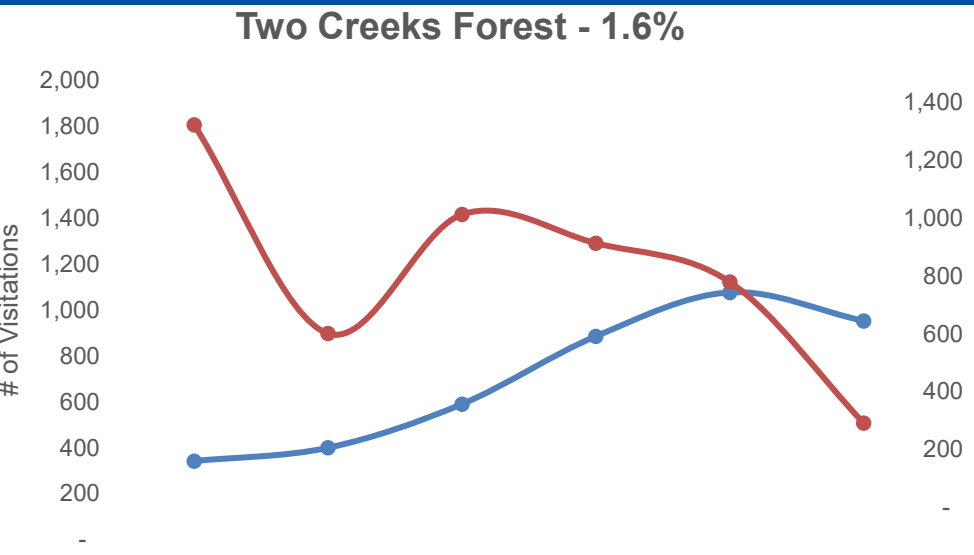


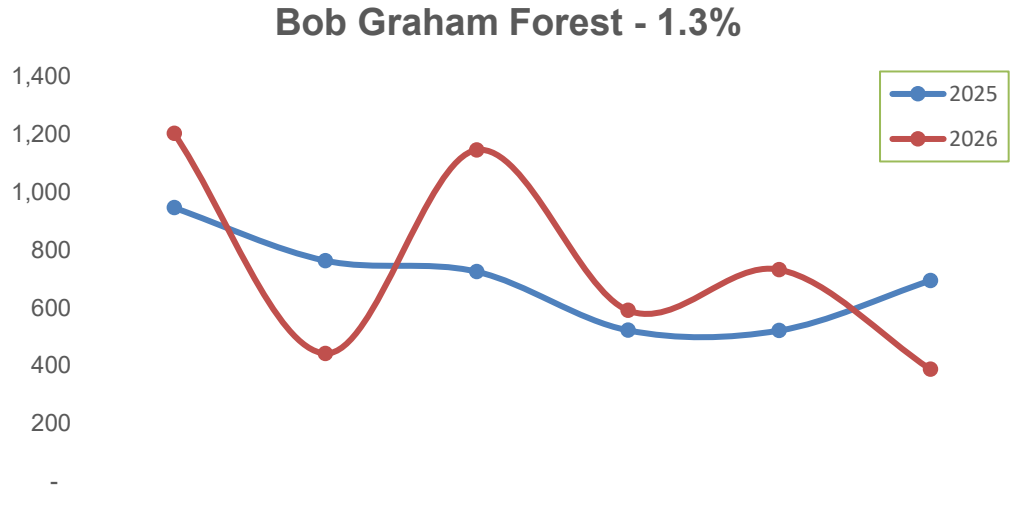
Aerial Imagery Showing the Site Extent, Escarpment, and Topography

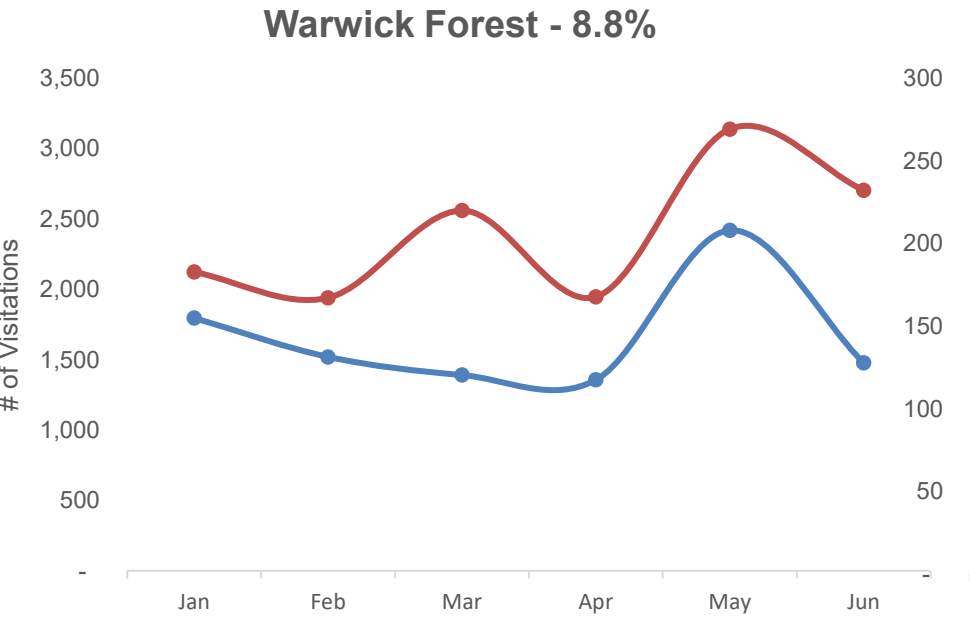
- Slope height > 8 m
- Slope angle > 14 degrees
- Underlain by Leda Clay
- Within an old landslide scar

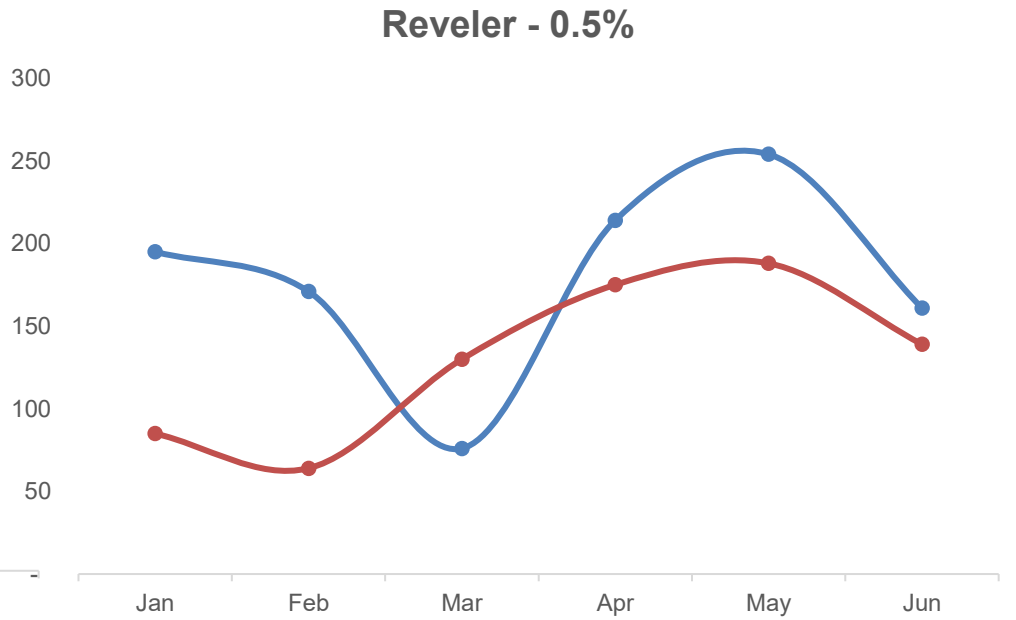
Imagery Showing the Site Location, Landslide Scars, and Soil Distribution

Long Distance Trail Visitation Numbers

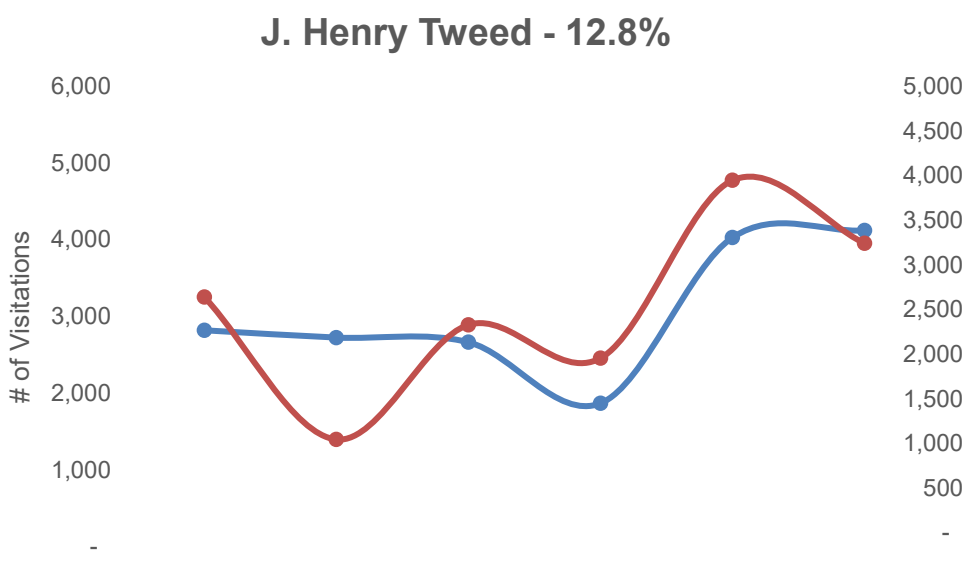


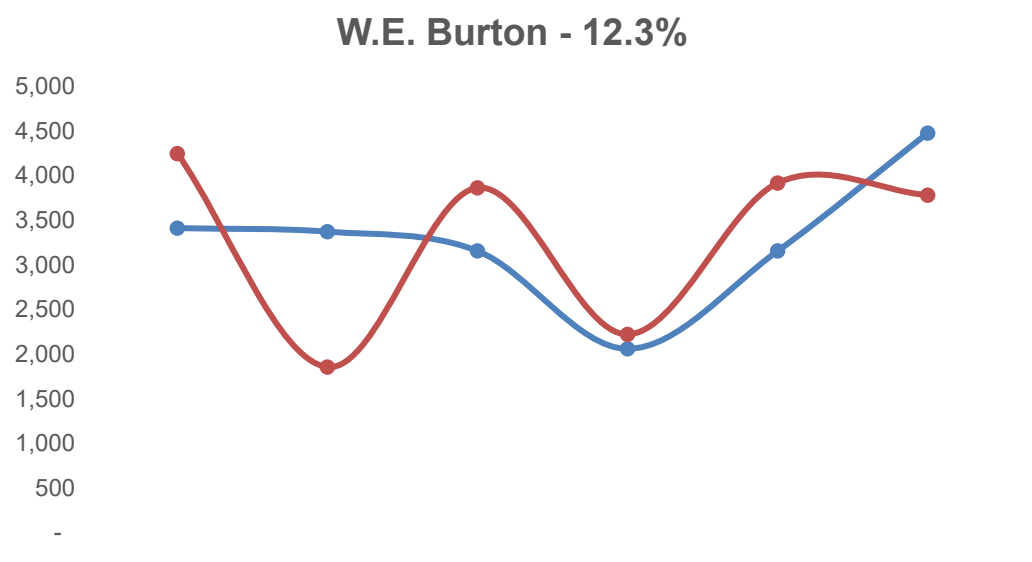


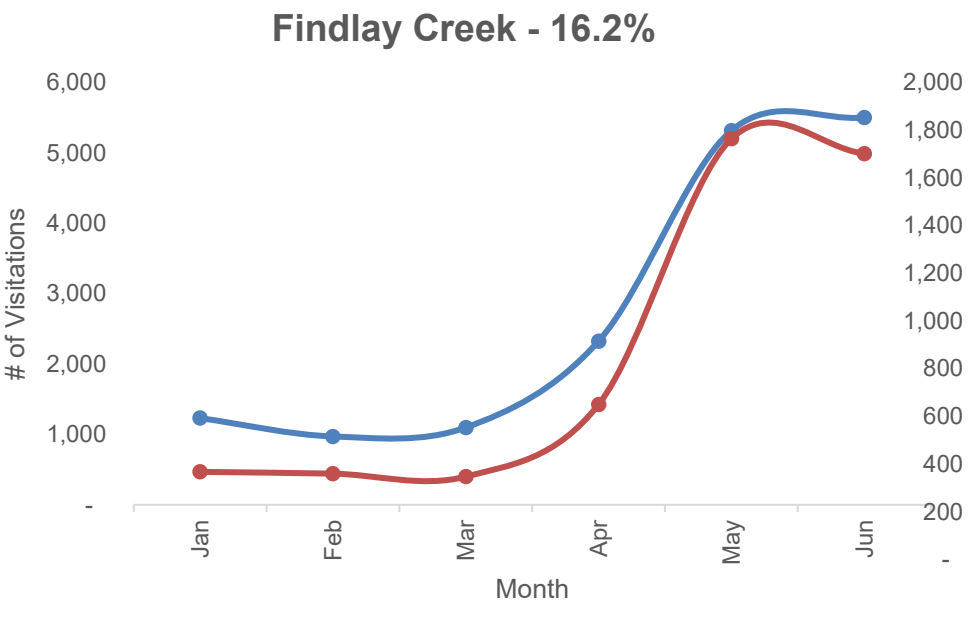


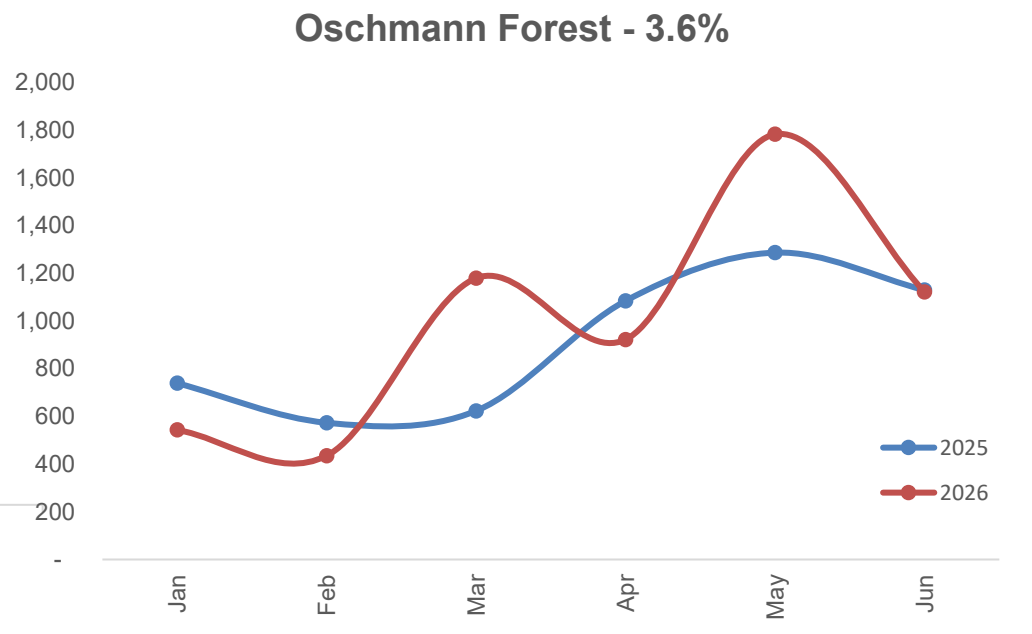


Short Distance Trail Visitation Numbers

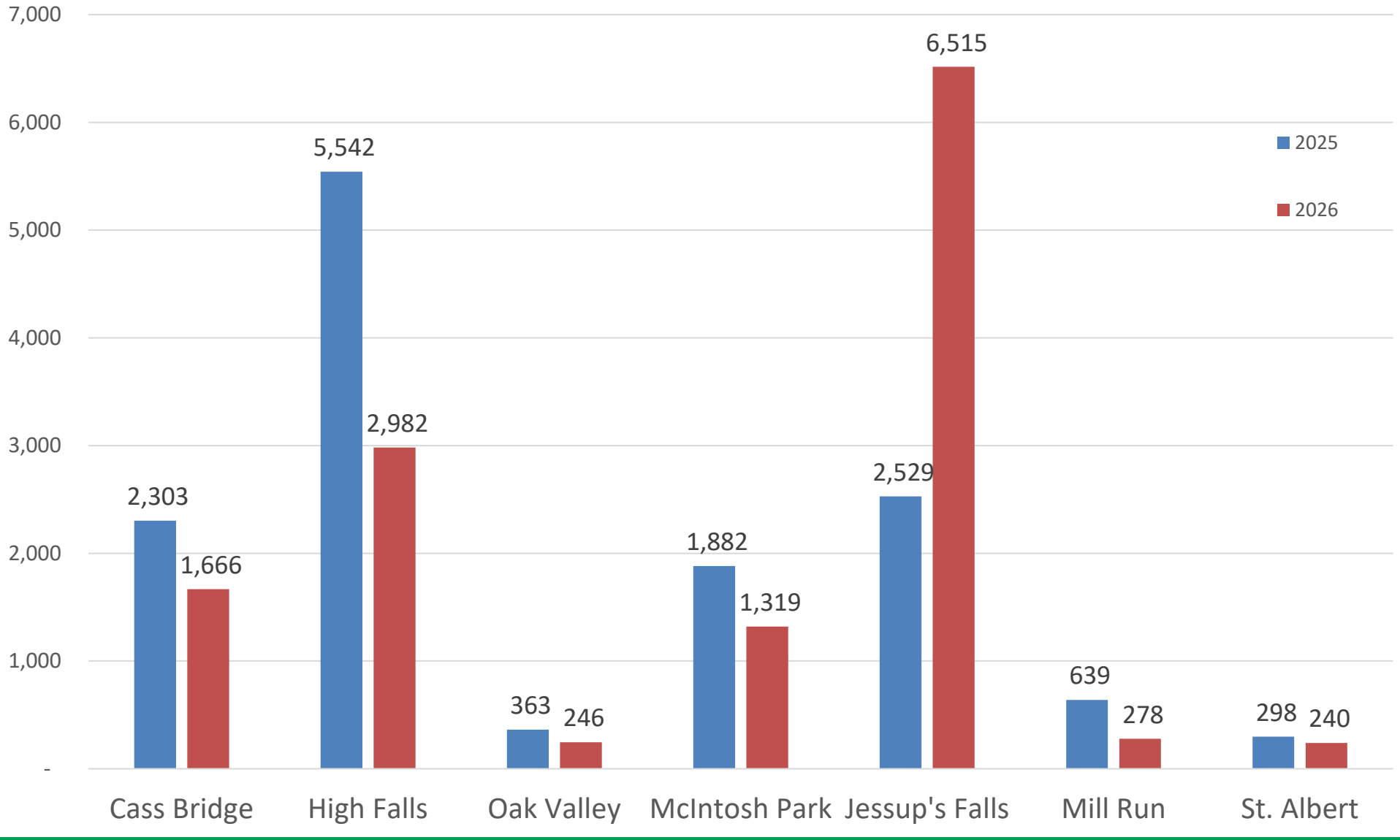








Recreational Area Visitation Numbers for June



Our Local Environment, We're in it Together.

South Nation
Conservation
de la Nation Sud