



SOUTH NATION
CONSERVATION
DE LA NATION SUD

Project Update

May 16th, 2024





New Staff: Andy Stefan



- BSc General Biology; MSc Biology, with experience as a freelance writer and research assistant
- One of this year's OFAH Students, planning to spend a lot of this summer pulling out European Water Chestnut!



New Staff: Kristina Silveira



- Diploma in Environmental Technician Field & Laboratory and Fish and Wildlife Technician
- 1 of 2 OFAH Students that just moved from the London region



New Staff: Nevynn Witteveen



- BSc. Biology: Health Sciences - Minor in Psychology and Environmental Science
- Your Approvals Student for the Summer!



New Staff: Chesney McNeely



- BAH in Environmental Studies & Graduate Certificate in Environmental Management and Assessment
- Enjoy hiking, snowboarding and camping
- Excited to be part of the GIS team at SNC



New Staff: Aya Larhlimi



- BSc Joint Honours in Mathematics and Economics
- Fluent in 4 languages
- Enjoy playing sports, taking photos, and creating content on social media.
- Excited to be part of the Communications and Outreach team at SNC



New Staff: Madelaine Lamothe



- BSc Environmental Biology and Technology (just finished first year)
- Member of the Nipissing Women's Volleyball Team
- Very excited to be part of the Conservation Lands team this summer



Source to Stream Conference

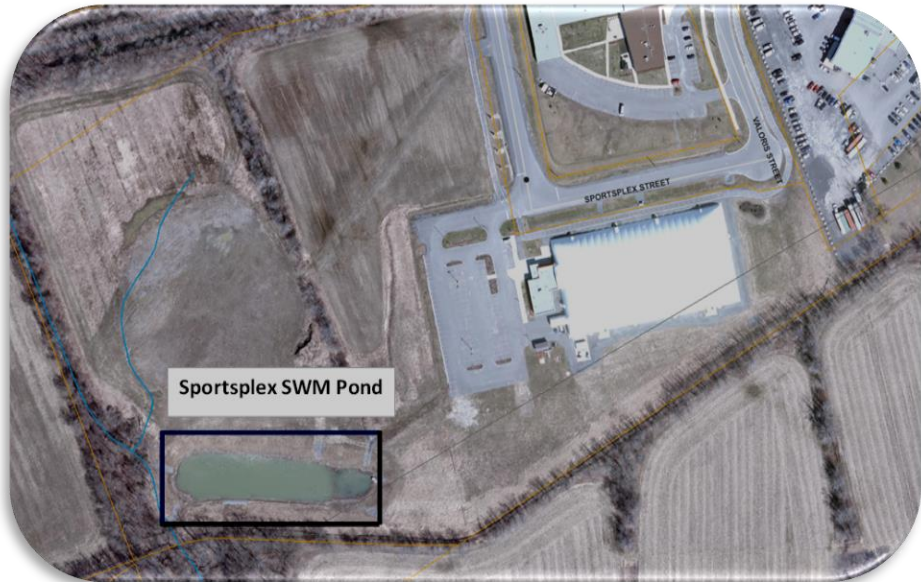


Source to Stream Conference
March 2024, Brampton

- Design, operation, and maintenance of Storm water management ponds
- Low Impact Development (LID) design
- Sustainable Technologies Evaluation Program (STEP)



Stormwater Management Facilities Inspections



Sportsplex Stormwater Pond
Russell

- Field inspection, measurement, and assessment of Storm Water Management (SWM) facilities
- Calculation of sediment volume within SWM facilities
- Identification of areas with higher sediment loading for cleaning out purposes



Flooding Workshop



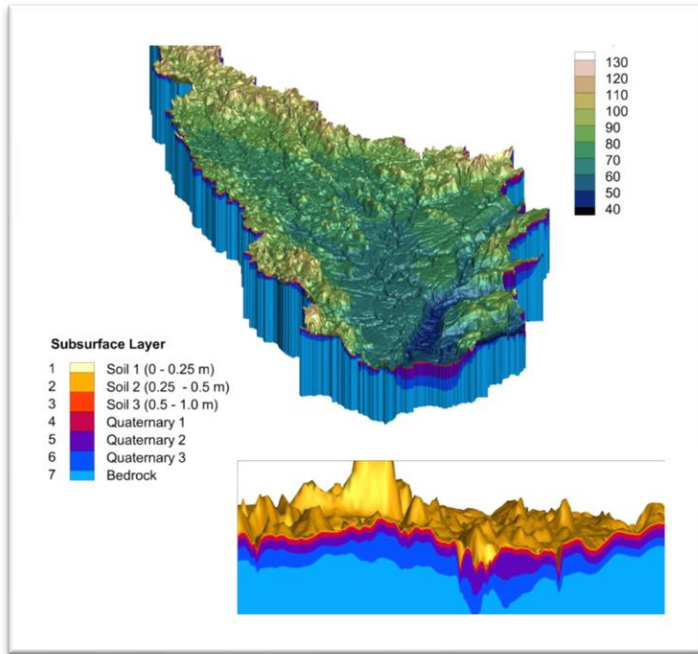
- SNC presentation: “Communicating the Science of Floodplain Mapping”
- Networking
- Knowledge Transfer
- Collaboration
- Innovation



CWRA- Flooding Workshop
April 2024, Oakville



Funding Success!



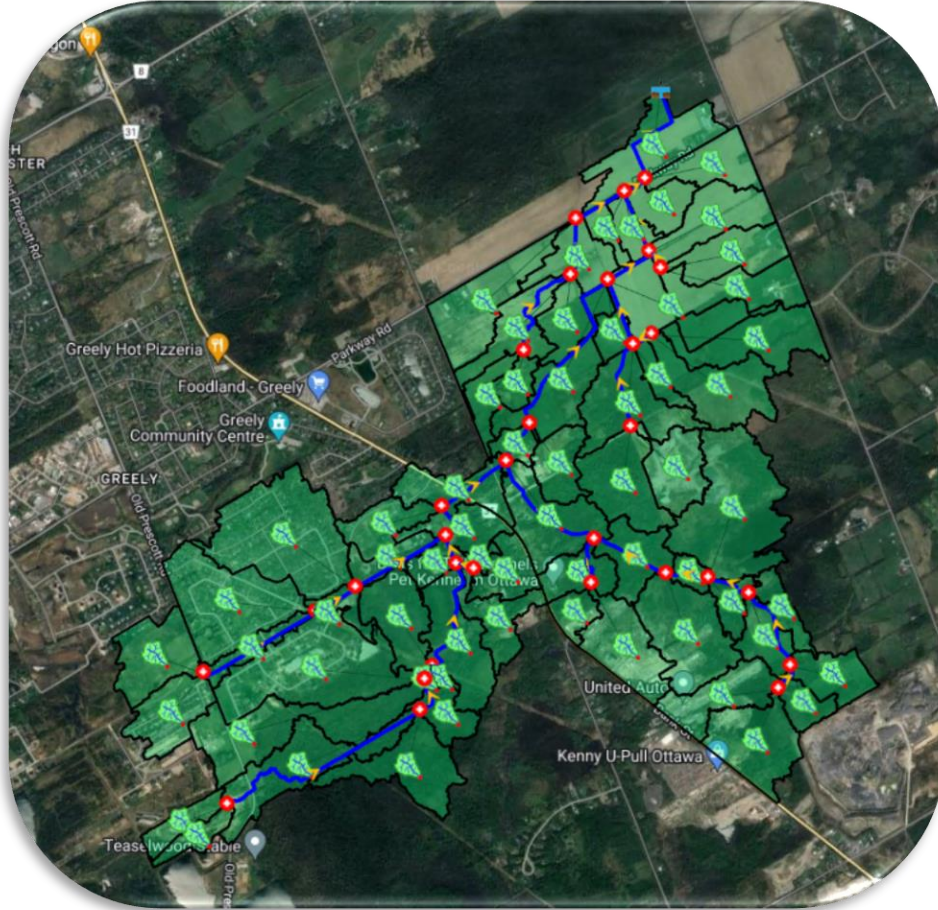
- Flood Hazard Identification and Mapping Program
 - \$440,000 from Natural Resources Canada for a South Nation River Regional Flood Model (2024-2027)



- Community Emergency Preparedness
 - \$38,000 from Emergency Management Ontario to purchase a drone and develop a web mapping service



Quaile Municipal Drain Flood Mapping



Quaile Municipal Drain Watershed

City of Ottawa – Hazards Mapping Agreement 3:

- Hydrology modelling for watershed area of 916 ha
- Hydraulic modelling for 6.7 km of River
- Plan to Survey 18 structures (private and public)



Professional Development and Partner Training



May 8th, 2024

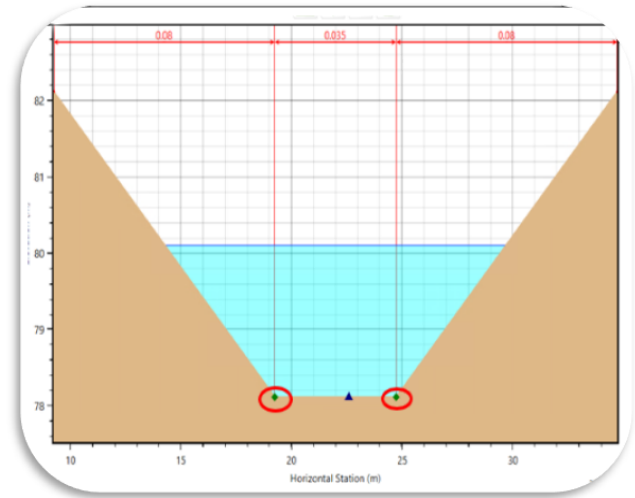
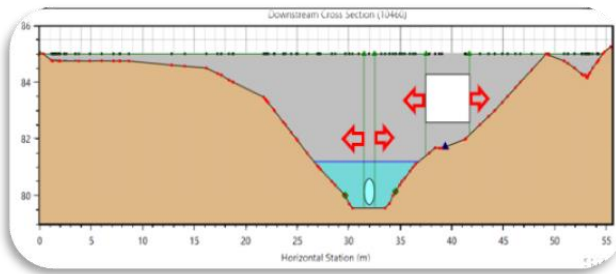
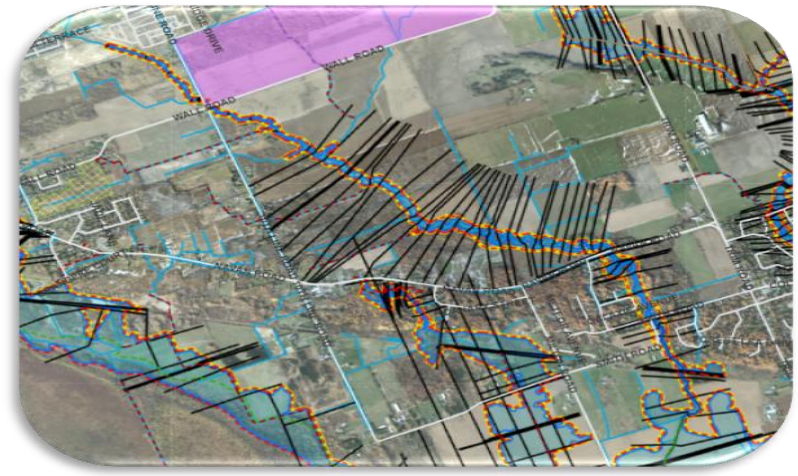
Rideau Valley Conservation Authority's Office
City of Ottawa

- Presented by Robin McKillop from Palmer
- Attended by three Conservation Authorities and City of Ottawa technical teams
- Goal: better understanding on slope stability
- Next step: develop consistent approach on technical reviews



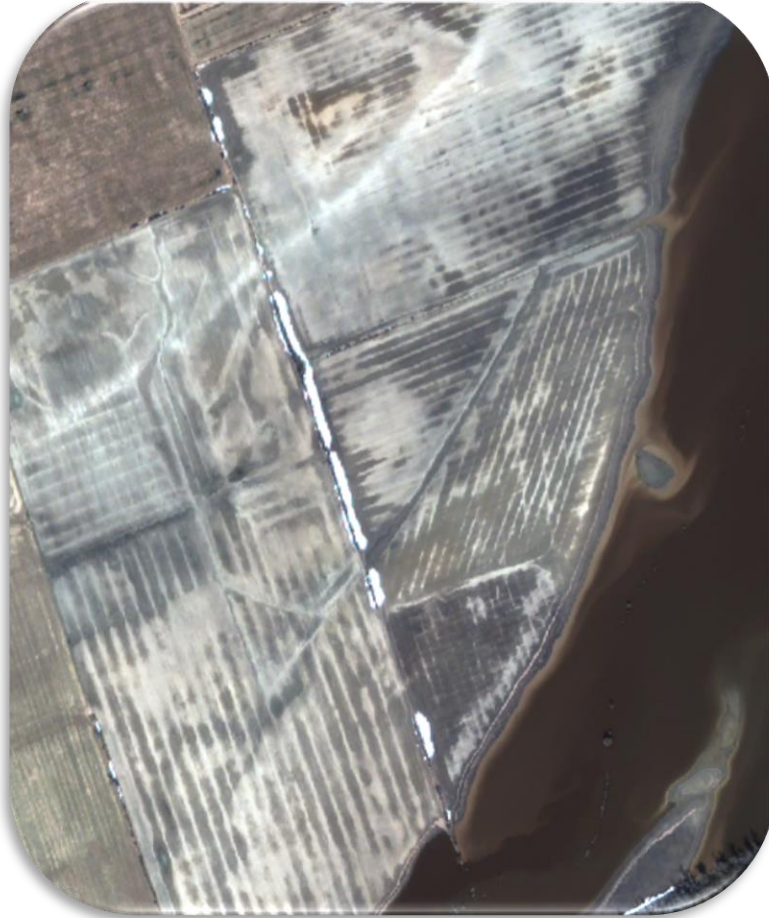
McKinnon's Creek Hydraulic Model

- New developments in Cumberland
- McKinnon's Creek runs through the proposed developments
- Arcadis, RCI, and IBI are updating the model to ensure there are not impacts to upstream / downstream properties
- Engineering team reviewed the model





Bear Brook Watershed Study: Tile Drainage Mapping



Tile drainage visible in aerial imagery.

- Delineate areas of land within the Bear Brook watershed that are tile drained
- Support water budget modelling and calculations



Water Monitoring Update



- Rating curves being established at two monitoring sites, Indian Creek Road and Hall Road



- The data supports the Bear Brook Watershed Study and Flood Forecasting and Warning

Flow measurements being taken at Hall Road monitoring site
City of Ottawa



Groundwater Monitoring Update

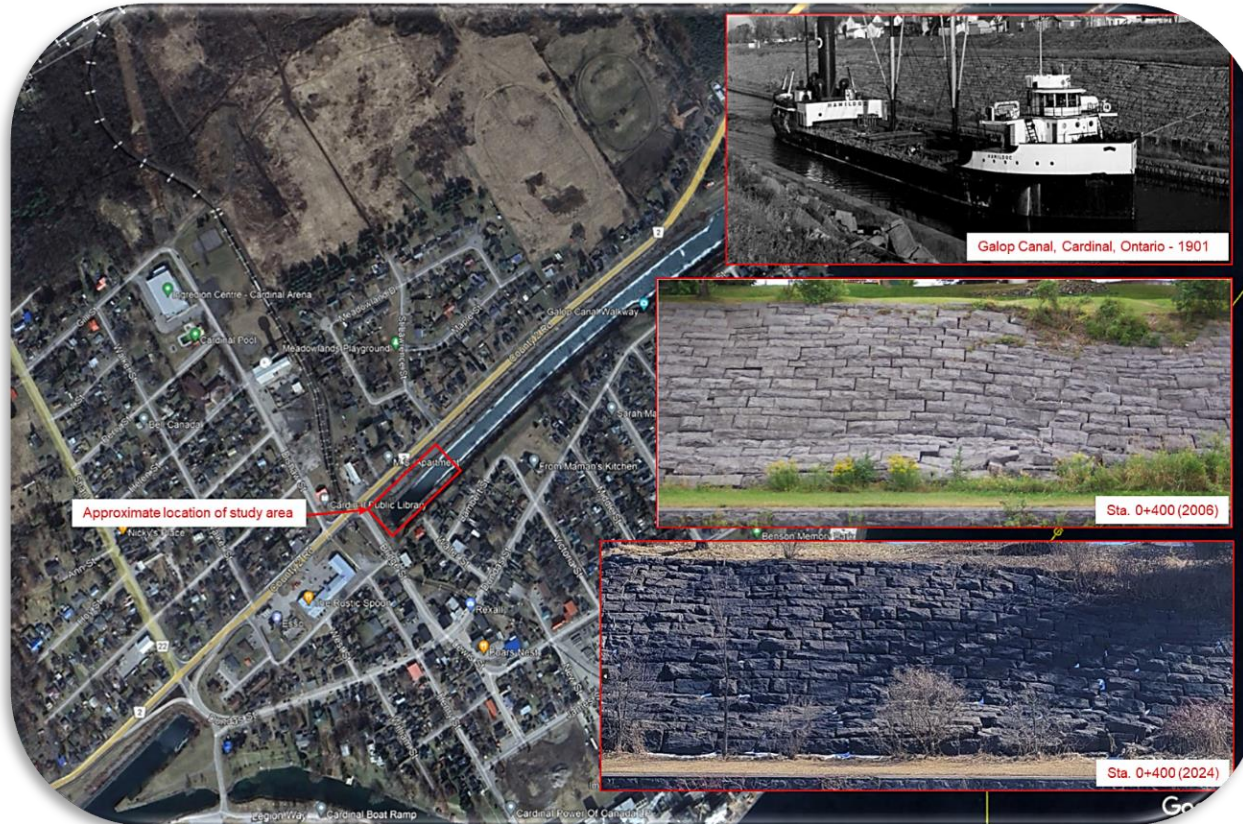


Berwick station with new FTS box installed
North Stormont

- SNC staff participates in a Provincial Groundwater Monitoring Network (PGMN) working group, provides opportunities for knowledge transfer and training
- Improvements recently made to PGMN monitoring stations to improve water safety



Gallop Canal Assessment



Gallop Canal, Cardinal, Ontario

- Unstable slopes of exposed limestone block facings
- Township of Edwardsburgh Cardinal retained SNC to manage an assessment of the slopes by a qualified consultant
- Risk mitigation and remedial measures have been proposed



Tree Planting Program Update



Tree planter with potential future tree planters, private site, St-Eugène

- 174,400 trees planted in spring 2024
 - Larose Forest: 66,000
 - Woodlot Recovery Program: 26,850
 - 50 Million Tree Program: 61,360
 - Municipal Tree Giveaway: 7,200
 - Over the Counter: 13,000



Tree planting project, private site, Chrysler



Woodlot Storm Recovery Program Update



SNC Staff planting trees for a Woodlot Storm Recovery project, private land, Saint-Pascal-Baylon



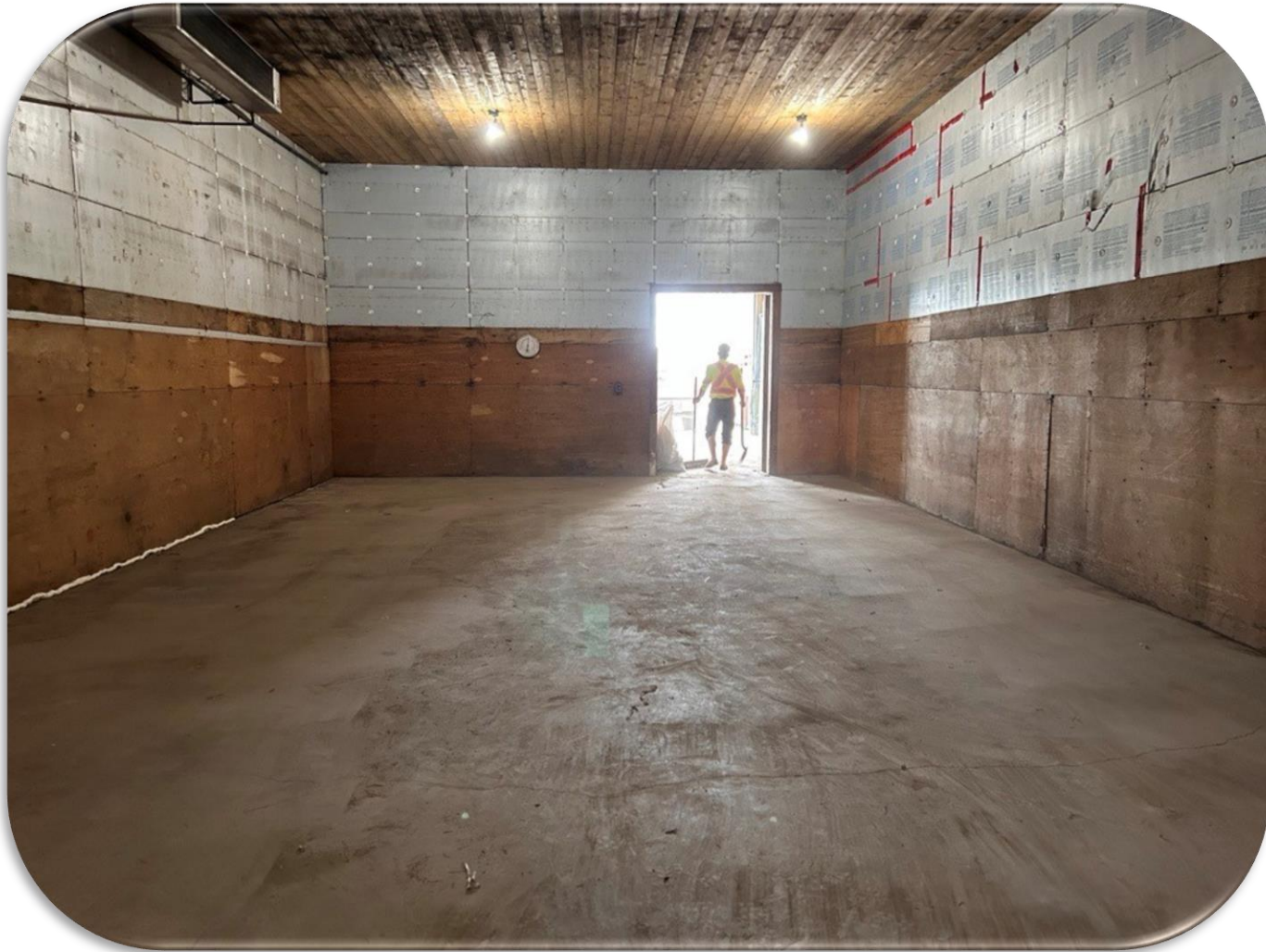
Tree planters completing project at SNC 69, Plantagenet



Tree planted at SNC 105



Tree Planting Program – Record Start and End Dates



Empty storage, Smyth Apple Orchard, Iroquois



2024 Free Tree Program



- 18 free tree pick up events organized at municipal offices and community centers
- Last event held on May 12th
- Program supported by municipal contributions and fundraising revenue
- 7,200 tree seedlings





Nurses Week – Free Tree Campaign



- Free trees provided to healthcare workers as part of Nurses Week at three community hospitals: Cornwall, Alexandria, and Winchester, as well as the Dundas Manor



Ottawa Rural Clean Water Program



- Program Outreach in the City of Ottawa (4 Rural Wards)
- May Postcard Campaign – approximate reach: 50,000 households
- Water Quality Improvement and Tree Planting Projects



Natural Shoreline Development

Natural Riparian Areas

Riparian areas are strips of land around water bodies (generally 25 metres on either side) and need to be vegetated with trees, shrubs, and plants to support a healthy environment.

These biodiverse areas provide habitat for 90% of all river life and they help improve water quality, reduce erosion, and prevent property damage.

Limit interventions and give freedom to nature or give it a boost by planting native plants. Avoid using fertilizers, detergents, and pesticides in this area.

Do not mow to the waterfront, leave a natural buffer. A 5-metre access pathway can be maintained.

Dead or damaged trees impacting public safety can be cut, however, please leave the stumps and roots to maintain slope stability.

Alterations to shorelines and watercourses requires permission from your local Conservation Authority.

HEALTHY

SHORELINES
ENVIRONMENT
COMMUNITIES

Maintaining healthy shorelines are essential to improve water quality and protect the environment.

Vegetated riparian areas provide:

- Pollution and sediment filtration,
- Water level regulation,
- Erosion protection,
- Plant and animal habitat,
- Shade to maintain lower water temperatures.

SHORELINE DEVELOPMENT AND DOCK INSTALLATIONS

Development of your property may require permits.

Before completing work, such as fill placement, grading, structure or dock installation, or shoreline alterations, please contact South Nation Conservation.

info@nation.on.ca or 1-877-984-2948.



Campaign: Healthy Shorelines, Healthy Communities

- Partnership with the Municipality of Casselman
- Information on natural shorelines and development permits
- Distribution in Casselman along the South Nation River



Stewardship and Outreach: School Field Trips



J. Henry Tweed:

- Tuesday, April 30th
- 43 Grade 1 & 2 students from Russell Public school

Leitrim Wetland:

- Tuesday, May 14th
- Students from Notre Dame High School
- SNC provided Innovation, Creativity, and Entrepreneurship (ICE) training and Specialist High Skills Major (SHSM) certifications





Community Clean Up Activities

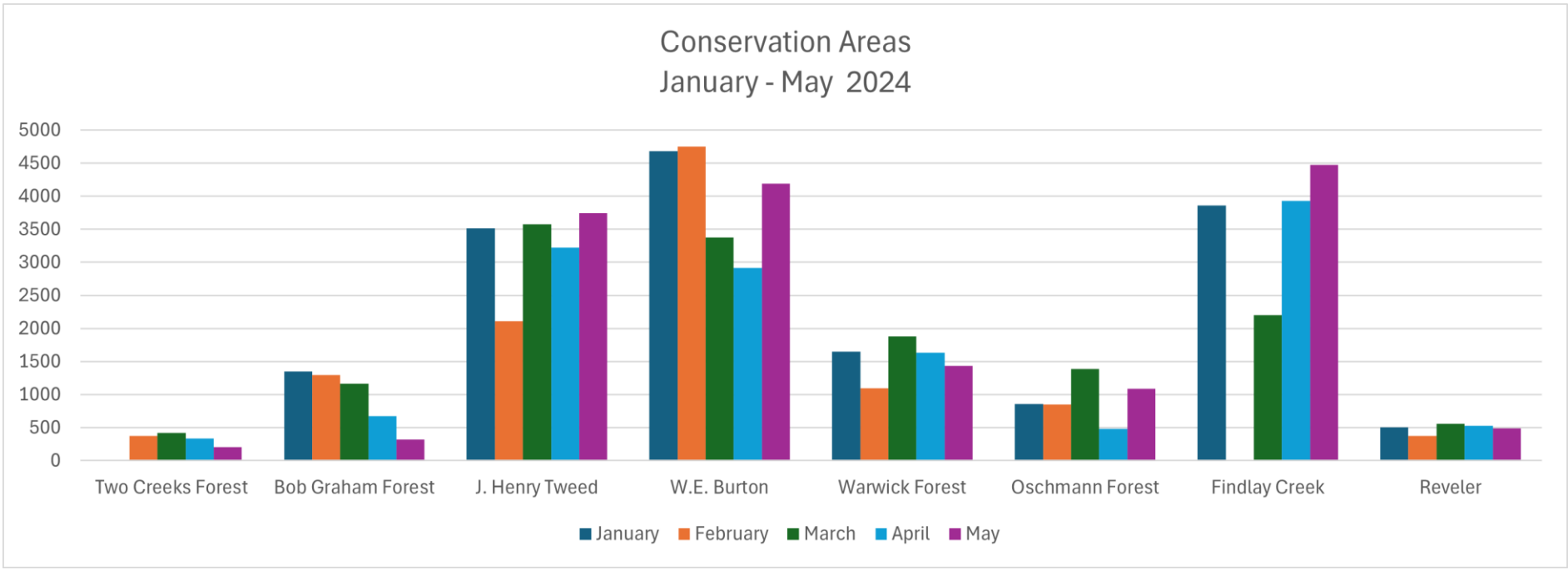


- Spring clean up activities supported by Community Environmental Grants, Pitch-In, and Clean up the Capital Programs
- Several community groups have supported clean up activities in Conservation Areas (Eco East, Girl Guides, Scouts, etc)



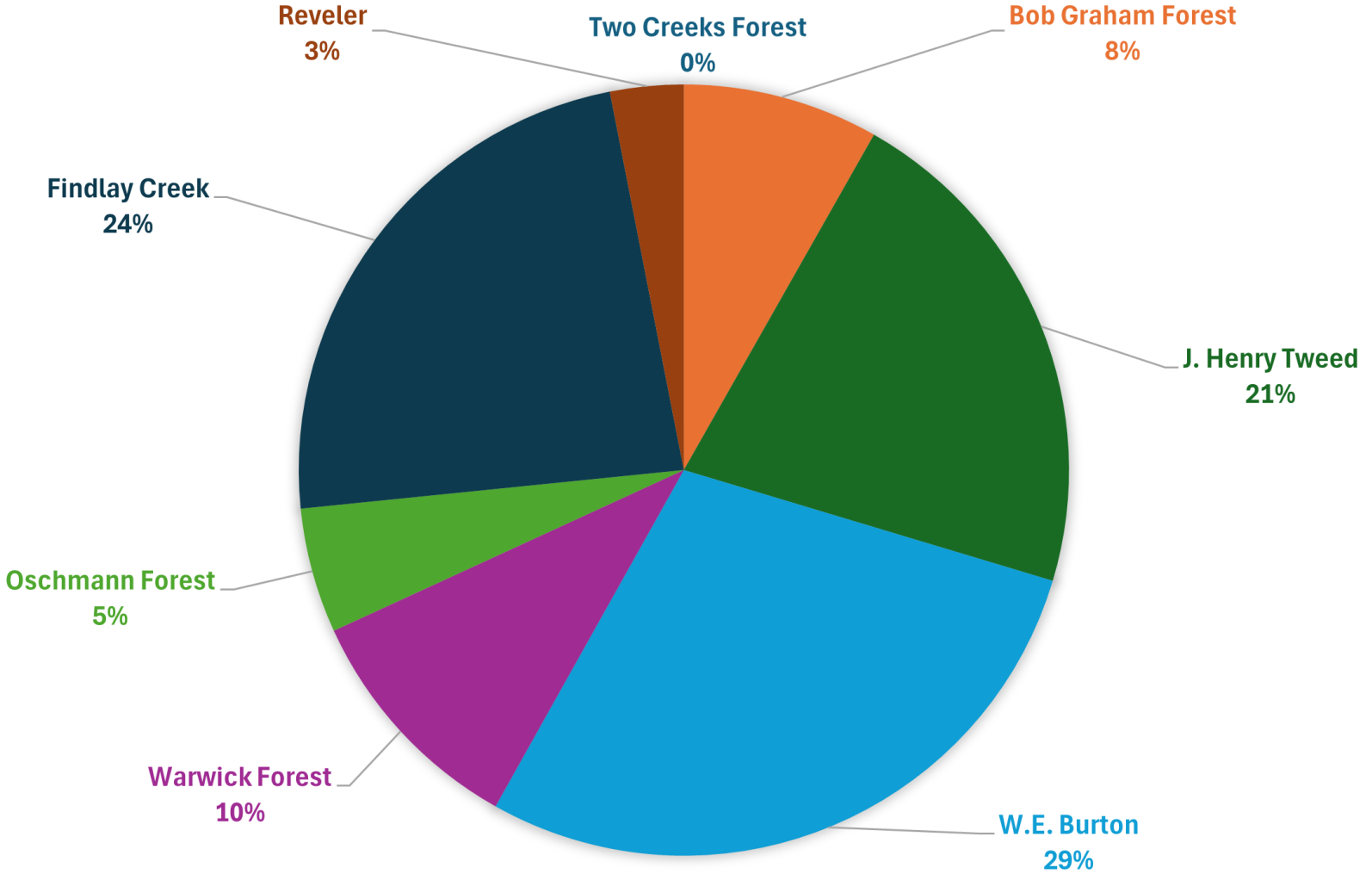


Conservation Area Stats



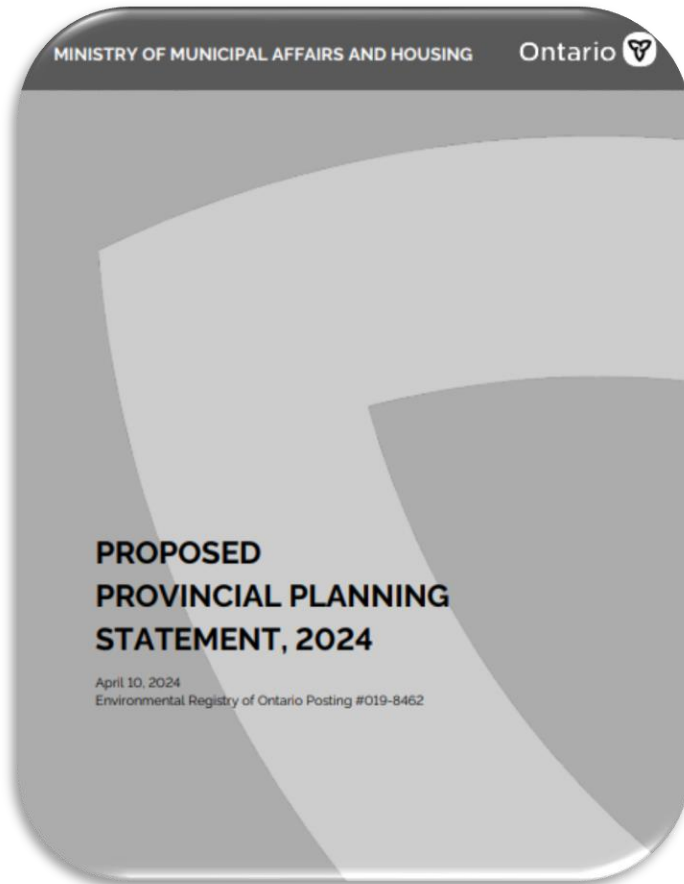


Conservation Area Stats - April





Draft Provincial Planning Statement

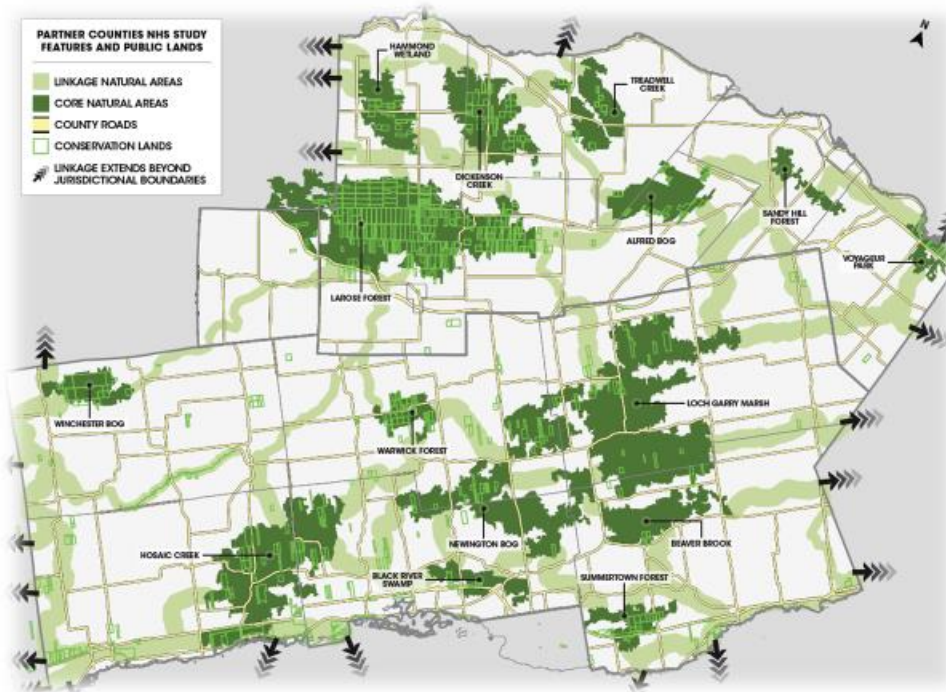


April 2024 draft Provincial Planning Statement

- Will replace the current *Provincial Policy Statement (PPS)* and *A Place to Grow* with a single document
- Staff worked with Conservation Ontario to provide comments
- Current draft includes strong support for Conservation Authority role in watershed planning and natural hazards



Supporting Community Planning



Natural Heritage System & Conservation Lands

- SDG initiative to implement the Natural Heritage System
- Rural Open Space Designation for Conservation Land
- Stakeholder and public consultation underway. Decision by County Council on June 17th.



Unique Septic Site

Accessible only by boat



Ricky Latulippe, Inspector, Sewage Systems



Island 115E, Front of Yonge

Our Local Environment, We're in it Together.



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