



SOUTH NATION
CONSERVATION
DE LA NATION SUD

Project Update

September 21st, 2023





New Staff: Kyle Macrae



- Recently married
- Red Seal Landscape Horticulturalist
- Vice President of the Seaway Horticultural Society
- Hiked the Appalachian Trail in 2011



New Staff: Phillip Dagenais



- Newer father
- Moved to Ingleside in June 2021
- B.Sc., M.Sc. Carleton University
 - Reactive Transport Model of Waste Rock at Detour Gold Mine
- Previously in construction
 - Foreman/Supervisor
- Xstrata Copper
 - Geologist
- Current favourite hobby
 - Off-roading my truck



Agri-Action Stewardship Tour



County Road 14, Osnabrock Center
Tree Planting and Forestry Programs

Hosted by ALUS Ontario East
September 12th, 2023

Tour visited local agricultural
stewardship projects

- Constructed or enhanced wetlands
- Buffers
- Grasslands
- Erosion control and more.



Ontario Power Generation Project Tour



OPG Drone Team Visit, Oak Valley Pioneer Park

- Ontario Power Generation visited SNC project sites
- OPG has provided over \$1.2 million dollars to SNC since 2014
- 2023 projects include:
 - Oak Valley Shoreline Restoration
 - Healing Place Harvest Event
 - Mill Run Edible Buffer Planting



Public Engagement – TD Tree Days



- September 17th, 2023
- 280 shrubs planted to stabilize the riverbank
- ~35 volunteers

Sunday September 17th, Oak Valley Pioneer Park, Inkerman
North Dundas



Fall Family Day

- McIntosh Memorial Park Conservation Area
- Saturday, September 30th,
from 9:00 a.m. – 1:00 p.m.





Harvest Gathering and Clean Up



The Healing Place Harvest Event

Date: October 4th, 2023

10:00 a.m.



Municipalities of Ontario Conference



Conservation Authority Staff at AMO 2023

- August 20-23 in London, Ontario
- Record attendance (~2500 municipal leaders)
- Public policy sessions, delegations, and Minister's Forum
- Conservation Ontario booth staffed by various CA and CO



Provincial Flood Forecasting and Warning Workshop



- September 18th – 19th in Toronto
- 170 attendees from CAs, ECCC, MNRF
- Workshop Planning Committee Chair; Presentation on Reducing Flood Risk in SNC jurisdiction





Ontario East Municipal Conference



Conservation Authority Staff at OEMC 2023

- September 6th – 8th at the Ottawa Conference and Event Centre
- Conservation Ontario booth hosted by SNC and RVCA



Upcoming Workshops



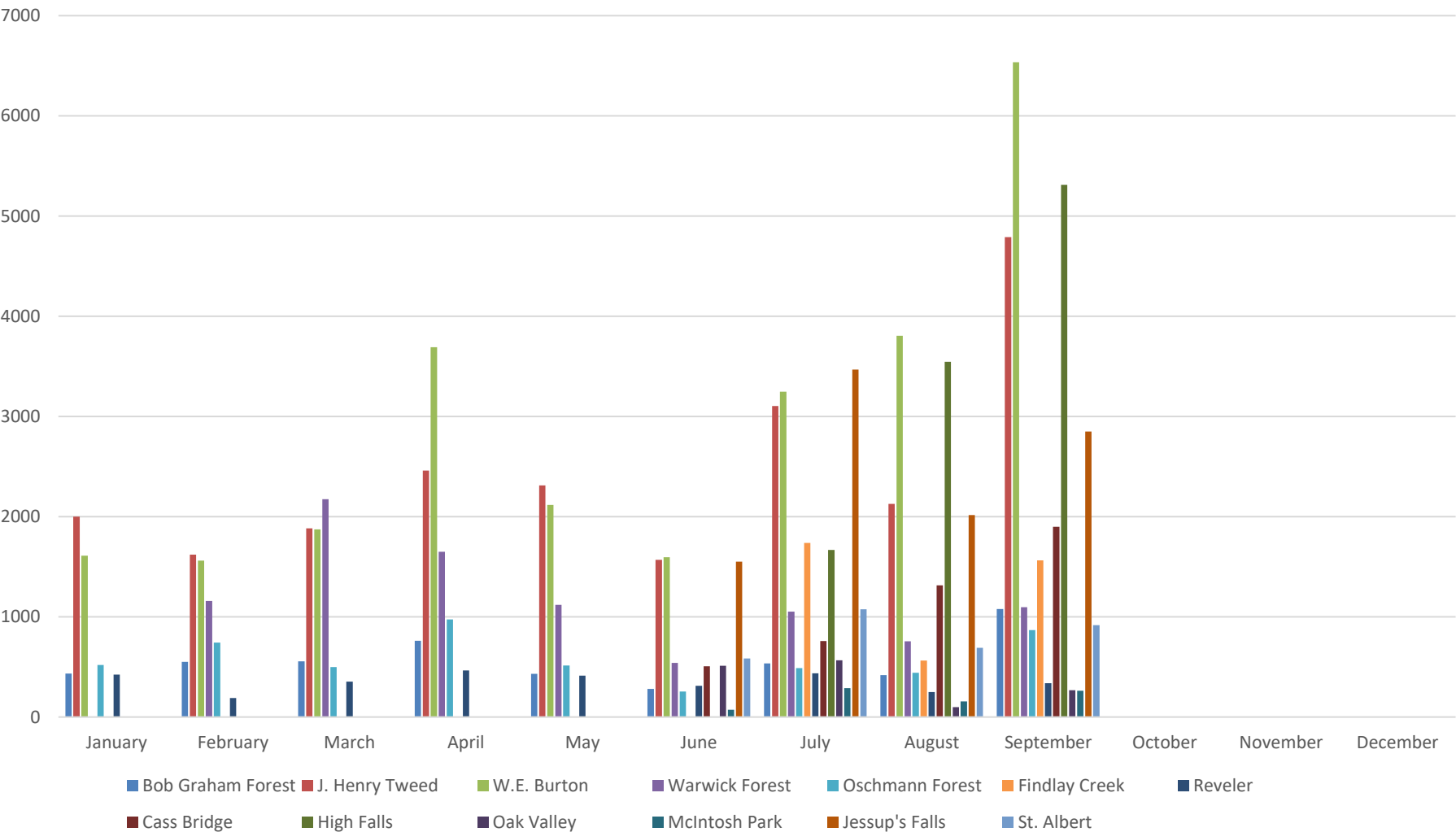
2022 Conservation Areas Workshop Panel

- Latornell Conservation Symposium
 - **October 23rd – 24th**
- Conservation Areas Workshop
 - **October 24th – 26th**



Conservation Area Stats

2023 Conservation Area Usage





Invasive Species: European Water Chestnut



Pulling Eastern Water Chestnut on the
Castor River

- Conducted management efforts to remove European Water Chestnut from the Castor and South Nation Rivers
- Removed over 17,000 plants since the beginning of July
- Requires ongoing monitoring and management



Invasive Species: European Water Chestnut





Ontario Benthos Biomonitoring Network



2023 OBBN Sampling, Castor River

- Will be sampling benthic invertebrates across the Bear Brook Watershed
- Partnership with the University of Guelph to share data



Grassland Maintenance

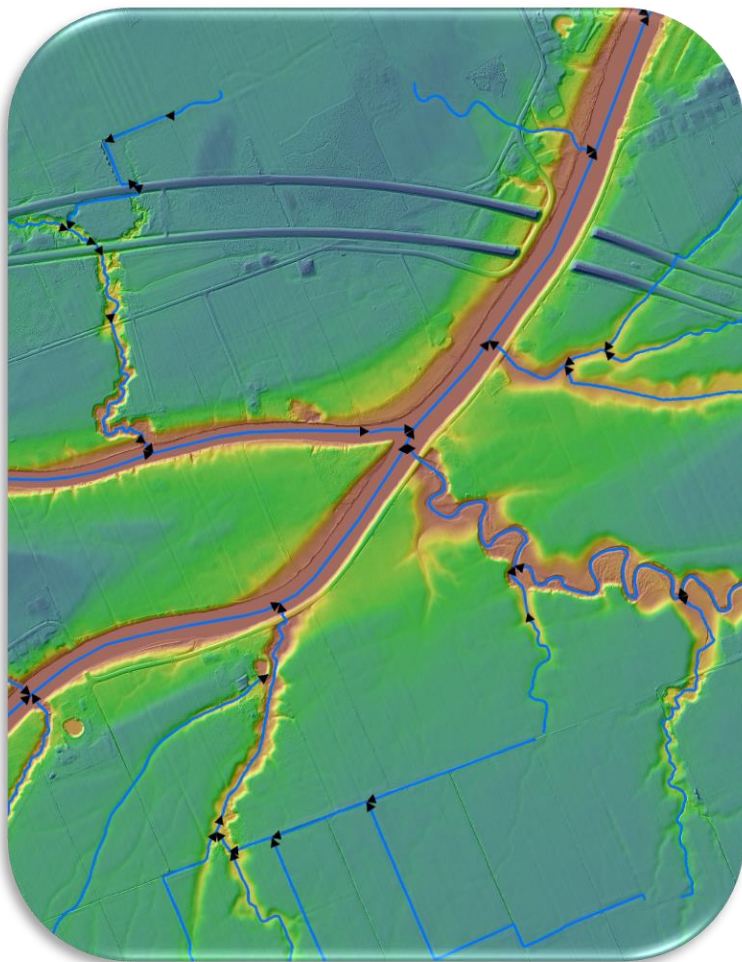


Tilled Field, SNC 114, North Dundas

- SNC Property #114 on Nation Valley Road tilled and seeded
- SNC Property #97 on County Road 9 mowed and shrubs removed
- Potential for delayed-cut hay production



Watercourse Update Project



Confluence of Castor and South Nation
Rivers

- Full review and update of watercourses throughout the watershed.
- Utilizing newly acquired LiDAR data to enhance accuracy and create a more robust dataset.



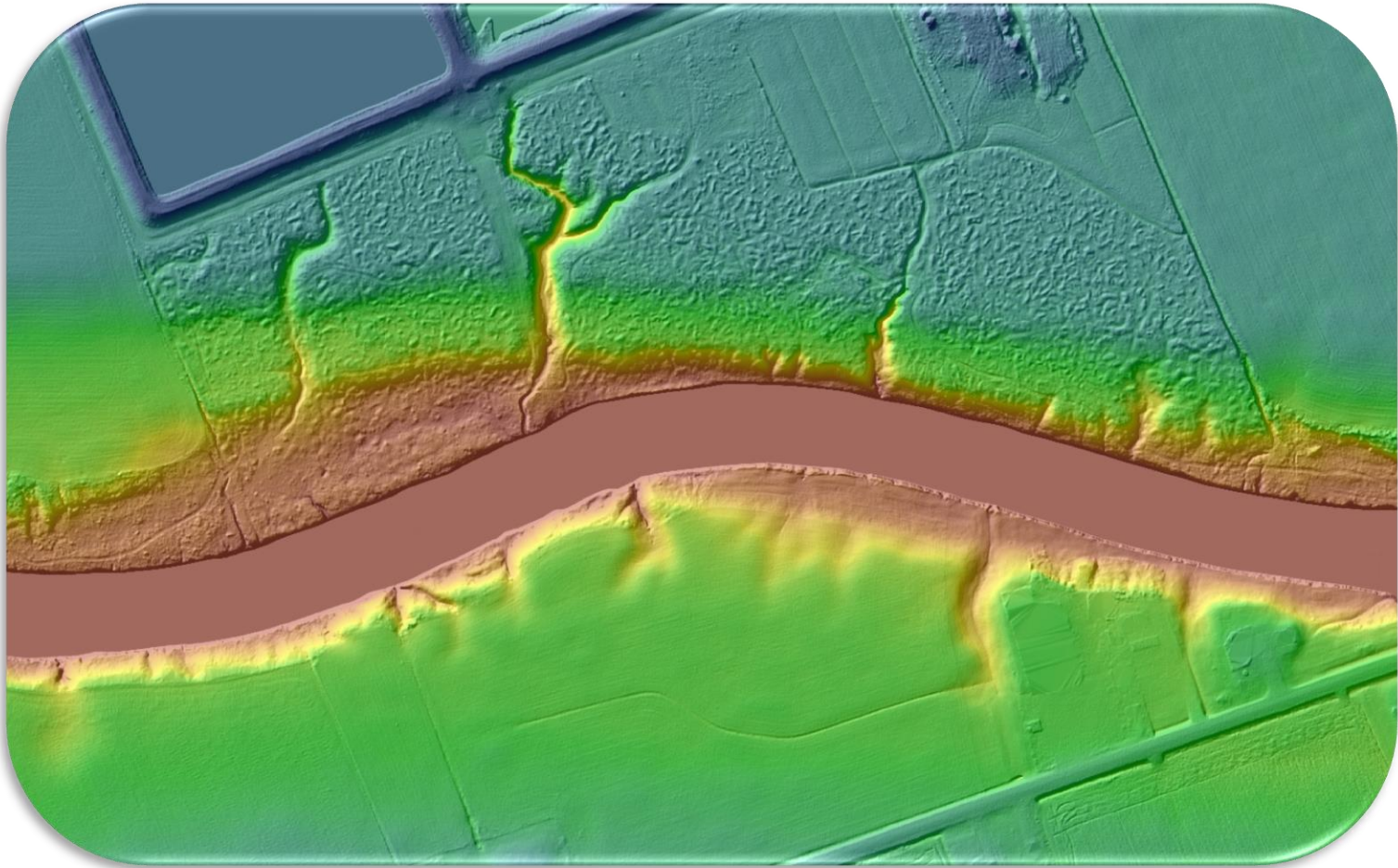
Watercourse Update Project



Castor River – DRAPE 2019 Aerial Imagery



Watercourse Update Project – Using LiDAR



Castor River – 2022 LiDAR Derived Digital Terrain Model (DTM)



Working with Development



Kehoe tug at the Port of Johnstown, with a deployed turbidity curtain in the background.

- Kehoe Marine Construction Ltd. and the Port of Johnstown received a permit to dredge loading piers
- Permit conditions included turbidity curtains to mitigate sedimentation
- Staff visited the site during the dredge to confirm permit conditions were being followed.



Working with Development



Dredging was conducted via an excavator mounted on top of a barge.



Large Turbidity Curtain deployed with flotation devices and anchored to land on both ends



Development around Unstable Bedrock

Orléans (Cardinal Creek)



- Completed a *Survey and Cartography* field course to better understand karsts.

- Caves (karst) *may* be a natural hazard when unstable.
- A technical study may be required to proceed with an application.



Cave City, Kentucky

Our Local Environment, We're in it Together.



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