



SOUTH NATION
CONSERVATION
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Staff Update

January 19th, 2023





New SNC Staff – Mona Ghafouri-Azar



Educational Background

- PhD in Civil and Environmental Engineering
- M.Eng. in Water Engineering
- B.Eng. in Civil Engineering

Work Experience

- Sustainability Advisor, OCAD University, Toronto, ON
- Water Resources Engineer, Center for Climate Change Adaptation for Water Resources, Seoul, South Korea
- Water Resources Engineer, Sazeh Pardazi Iran (SPI) Consulting Engineering Company, Tehran, Iran
- Water Resources Engineer, Soil Conservation and Watershed Management Research Institute, Tehran, Iran



New SNC Staff – Foman Forough



Foman receiving appreciation plaque for her hard work as General Director
from the Minister of Energy and Water.

Date/location

Educational Background

- B.Sc. Civil Engineering
- M.Sc. Hydraulics Structure

Work Experience

- General Director of Kabul River Basin
- Dam and River Adviser
- Hydraulics Structure Design Specialist



New SNC Staff – Golrokh Hafezian



Educational Background

- B.Sc. Geology
- M.Sc. Environmental and Earth Science

Work Experience

- Groundwater Intern, RVCA, Ottawa, ON
- Environmental Research Assistant, Geo-Environmental Lab, Ottawa, ON
- Lab Assistant, André E. Lalonde AMS Lab, Ottawa, ON
- Environmental Technician, Tadbir Pardaz Asia, Isfahan, Iran



New SNC Staff – Brianna Brougham



Educational Background

- B.Sc. Biology, Queen's University

Work Experience

- Invasive Species Technician, OPS – Voyageur Provincial Park
- Elementary/Secondary Occasional Teacher – UCDSB
- Youth Environmental Educator – Queen's University Biological Station



New SNC Staff – Mariane Scalise



Educational Background

University of Ottawa (in progress):

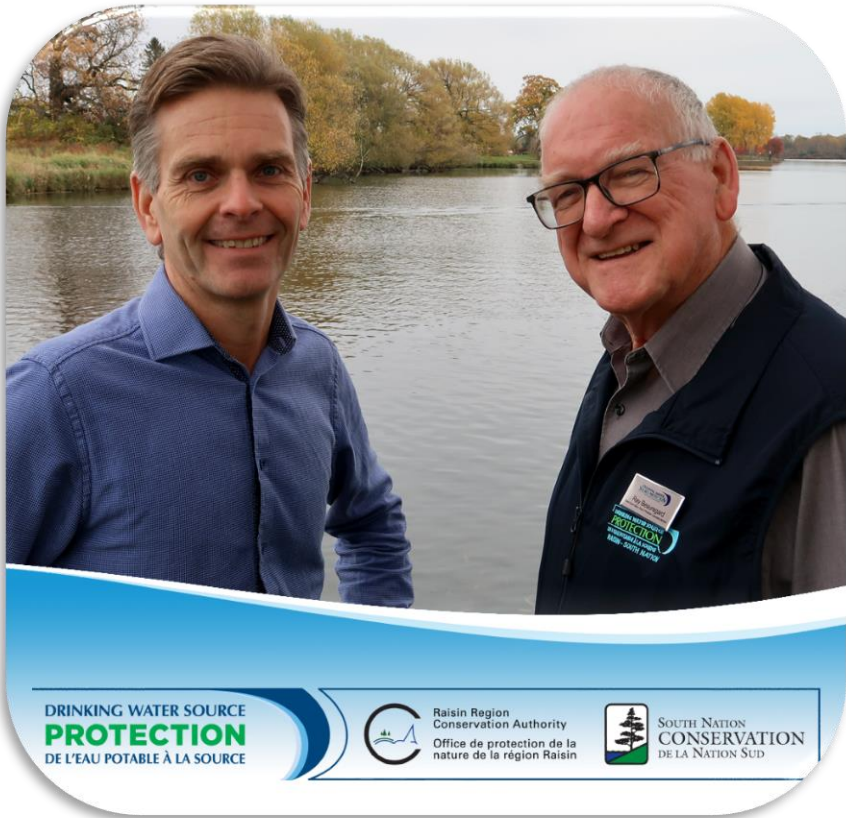
- BAsC. Civil Engineering
- BSc. Computer Technology

Work Experience

- Project Coordinator – Chandos Construction



Drinking Water Source Protection Committee



Source Water Protection Committee

- Ray Beauregard was re-appointed as the Committee Chair
- New Member-at-Large Committee member interviews completed



Salt Responsibly Campaign

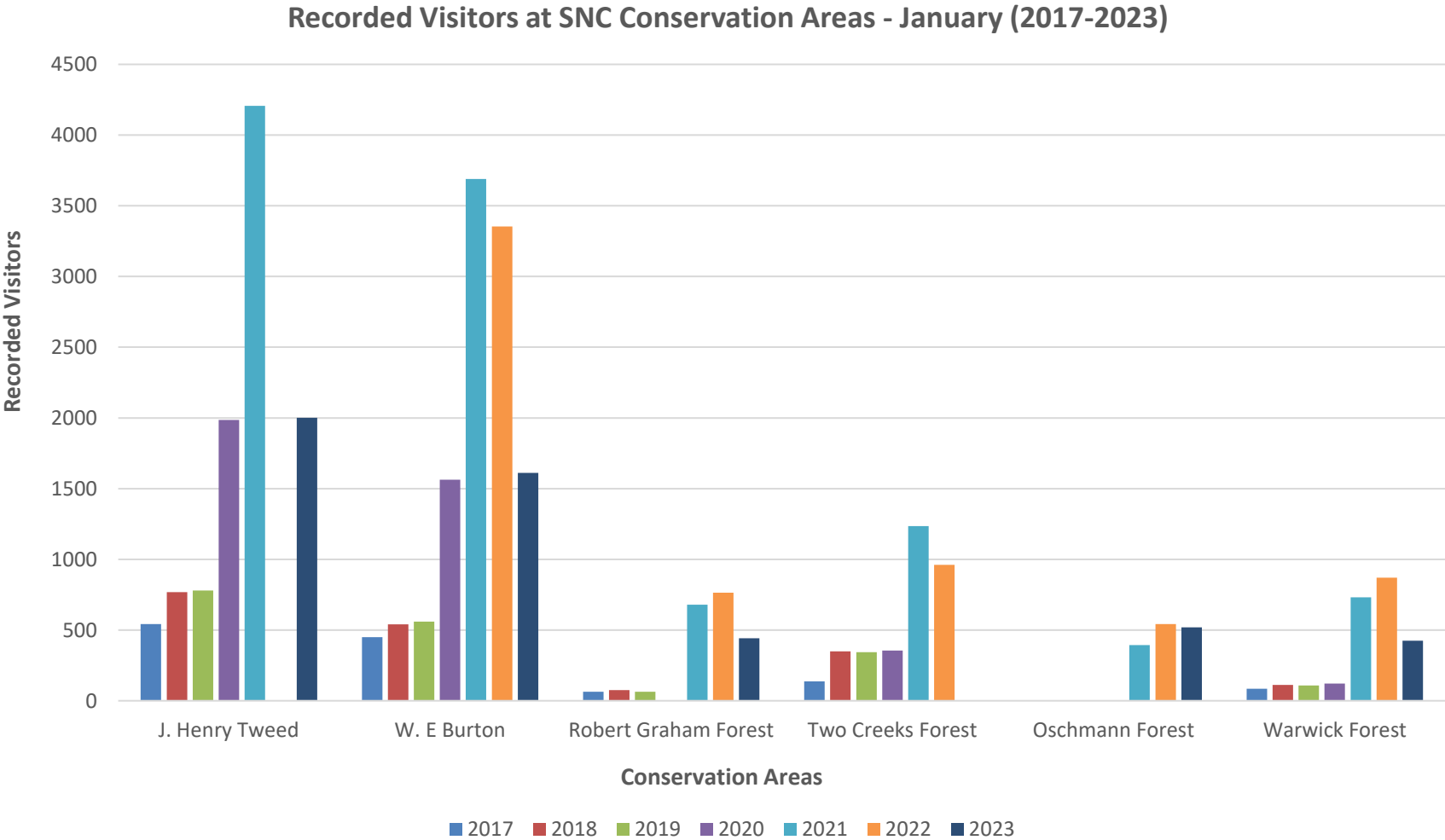


Campaign goals:

- Raise awareness of salt use and promote the reduction of salt used on pathways, roadways and driveways.
- Educate the public on the environmental costs of salt washing into our waterways.



Monthly Visitation at Conservation Area





Findlay Creek Boardwalk Extension



Rendering of Proposed Boardwalk Extension

Project Announcement
Media Event:

Wednesday, January 25th
1:00 pm

Findlay Creek Boardwalk,
2835 Findlay Creek Drive, Ottawa

Public Open House:

Wednesday, February 1st
7-9 pm

Library, Vimy Ridge Public School,
4180 Kelly Farm Drive, Ottawa



State of the Nation Report



STATE OF THE NATION

WATERSHED REPORT CARD 2018

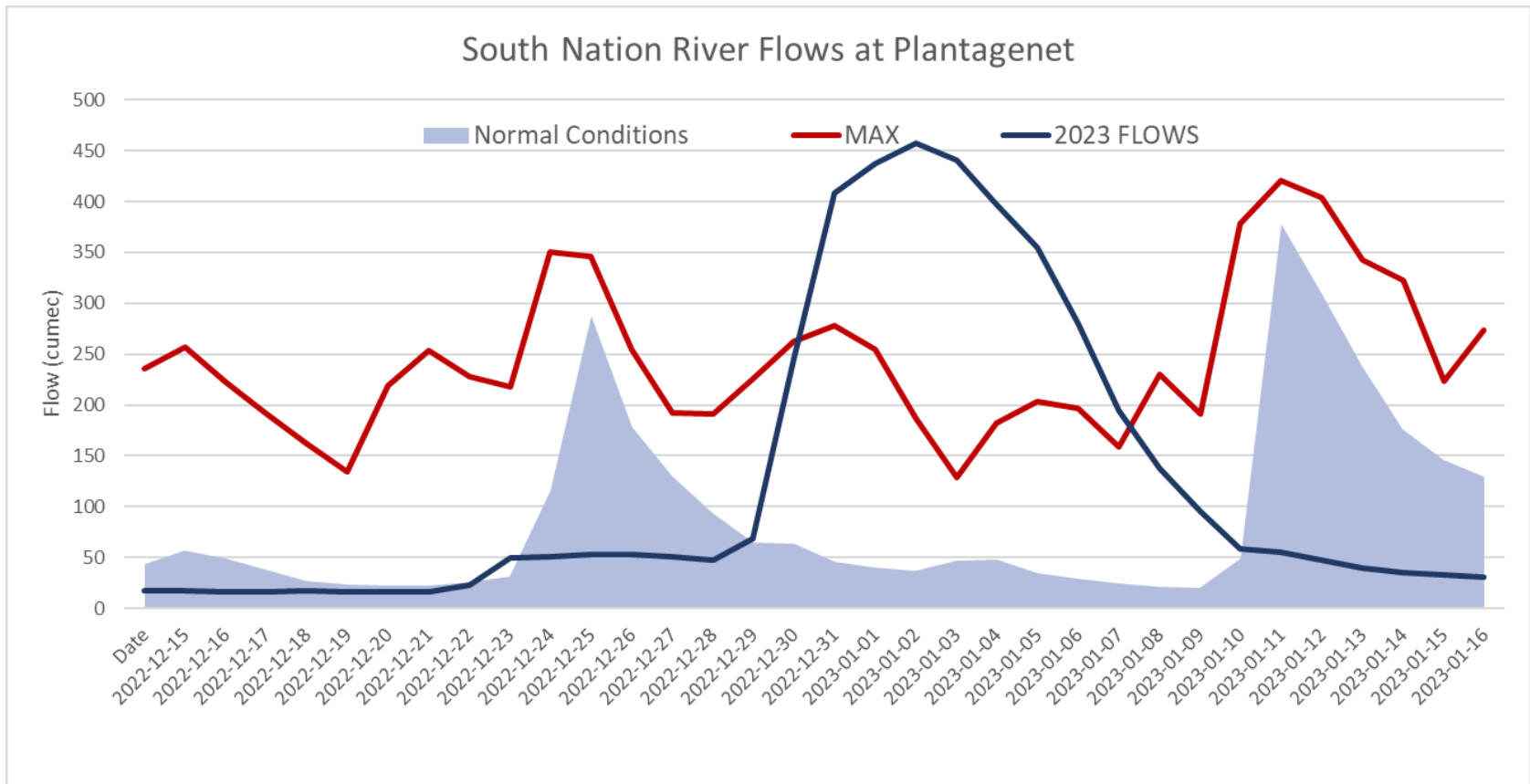
South Nation Conservation has prepared this report card as a summary of the state of your forests, wetlands, and water resources. Measuring helps us better understand our watersheds. We can focus our work where it is needed and track progress.



- 5-Year Analysis of Watershed Conditions
 - Forest Conditions
 - Wetland Conditions
 - Surface Water Quality
 - Groundwater Quality
- Part of Conservation Ontario's Watershed Checkup
 - Launch in March 2023



Flood Forecasting and Warning



- FF&W Program active over the winter break
- Eastern Region Representative on FF&W Committees
- FF&W Info Day – March 1st



Protecting People and Property



January 1, 2023 Dam Operations – Chesterville Dam



Landcover Update Eastern Ontario



Landcover polygons overlaying DRAPE2019 aerial imagery.

- Classify areas of land into standard categories
- References aerial imagery and LiDAR products
- Used in floodplain modelling, wetland restoration, tracking land change over time, and more



PGMN Water Quality Sampling



Berwick PGMN Well Sampling Event

- Completed 2022 Provincial Groundwater Monitoring (PGMN) wells sampling
- Monitor groundwater quality in partnership with the Ministry of Environment, Conservation and Parks
- Continuation of groundwater level and quantity monitoring



Bear Brook and Castor Surveys

- UCPR North Indian Creek, Bear Brook, East Castor River & Castor River structures to be surveyed for modelling
- Bathymetry to be completed in the Spring to finalize field investigations



Crew conducting structure surveys on North Indian Creek near Hammond
Clarence-Rockland



Grasslands Project Update



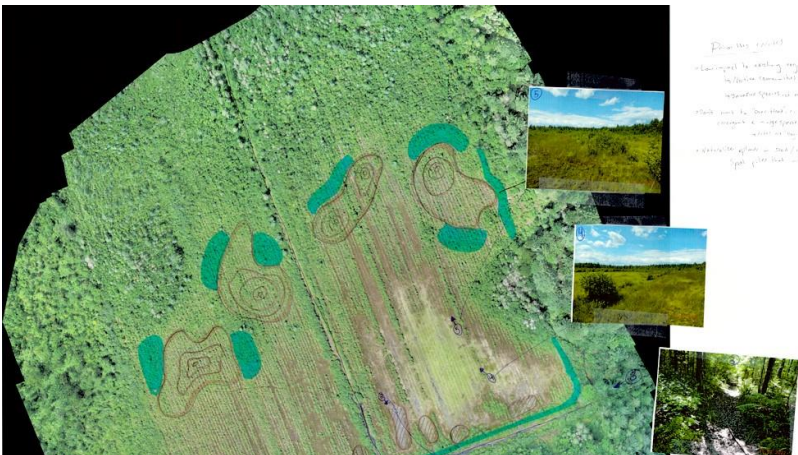
SNC delivers the Grassland Stewardship Initiative on behalf of Grasslands Ontario to enhance ecosystem services in agricultural lands

- Program provides cost-share funding to property owners to create, enhance, or maintain grassland property close to breeding ranges for Bobolink or Eastern Meadowlark Species at Risk
- Landowners must commit >4 ha for restoration
- Project example/update: brushing and control of invasive Buckthorn complete, seeding with native grasses and flowers planned for 2023

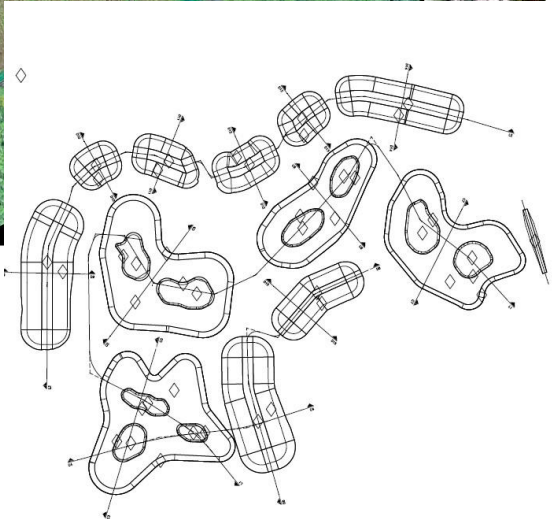
A fallow field will have the scattered trees and shrubs removed to make way for grassland.
Metcalf, City of Ottawa



Natural Infrastructure - Wetland Creation



Please see attached
information to assist in the
design of the wetland.
The wetland is located
on the east side of the
road, adjacent to the
existing wetland.
The wetland is located
on the east side of the
road, adjacent to the
existing wetland.



ALL DIMENSIONS AND MEASUREMENTS
ARE IN m OR OTHERWISE AS STATED.

Project Name	
Project Number	
Project Location	
Project Date	
Project Status	
Project Manager	
Project Sponsor	
Project Budget	
Project Risk	
Project Impact	
Project Conclusion	

- Funding from Ducks Unlimited Canada used to construct and restore wetlands
- Design is an integrative process: Field staff, foresters, biologists, engineers, permitting staff, municipalities...etc.

SNC 049, Wetland Concept Plan
Route 300E, Nation Municipality



Permit Inspections

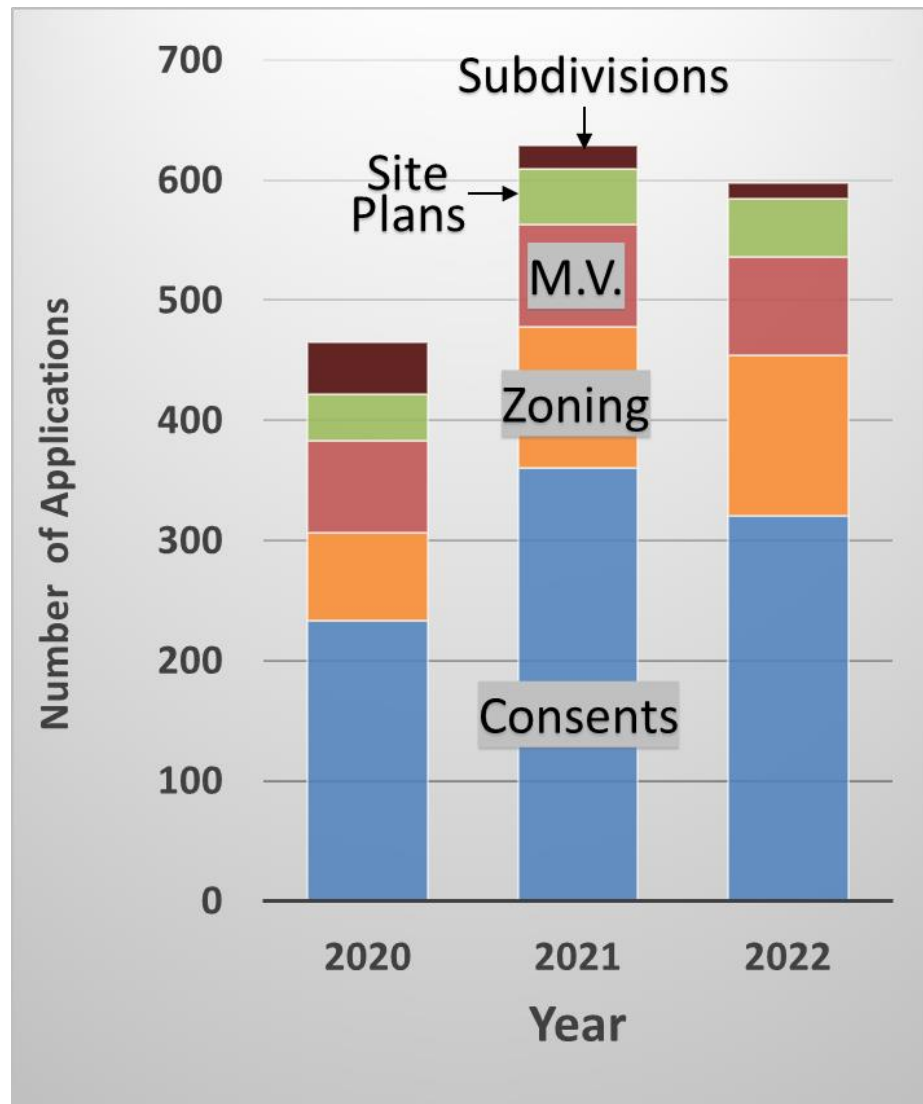


Development along the South Nation River,
North Dundas

- Site of development in the floodplain without a permit.
- Project revised and new design submitted compliant with regulation policies.
- Measurements and distances as per engineered plans, impact mitigations in place.



Planning File Trends 2020-2022



- Increasing trends in most file types
- Small scale projects have cumulative impacts

Subdivisions:	-70%
Site Plans:	+23%
Minor Variances:	+6%
Zoning Amendments:	+84%
Consents:	+ 37%

Our Local Environment, We're in it Together.



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