



SOUTH NATION
CONSERVATION
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Fish and Wildlife Committee Update

March 1, 2018



www.nation.on.ca



Funding Awarded



- \$25,000 from the Great Lakes Guardian Community Fund
- Bob Graham habitat work
 - Invasive species removal
 - Trail improvements
 - Innovation, Creativity, Entrepreneurship training
 - Tree and shrub planting
 - Interpretive signs



Providing Expertise



- Update to the Drainage Superintendents Guide
- Input on: new technology, green infrastructure, climate change, etc.



Working Together



Russell Stream Gauge - before and after accident





SNC Improves Forecasting



- Weather station installed and transmitting
- Includes: soil moisture, wind speed/direction, humidity, precipitation and snow depth



Water Management Database





City of Ottawa Baseline Sites

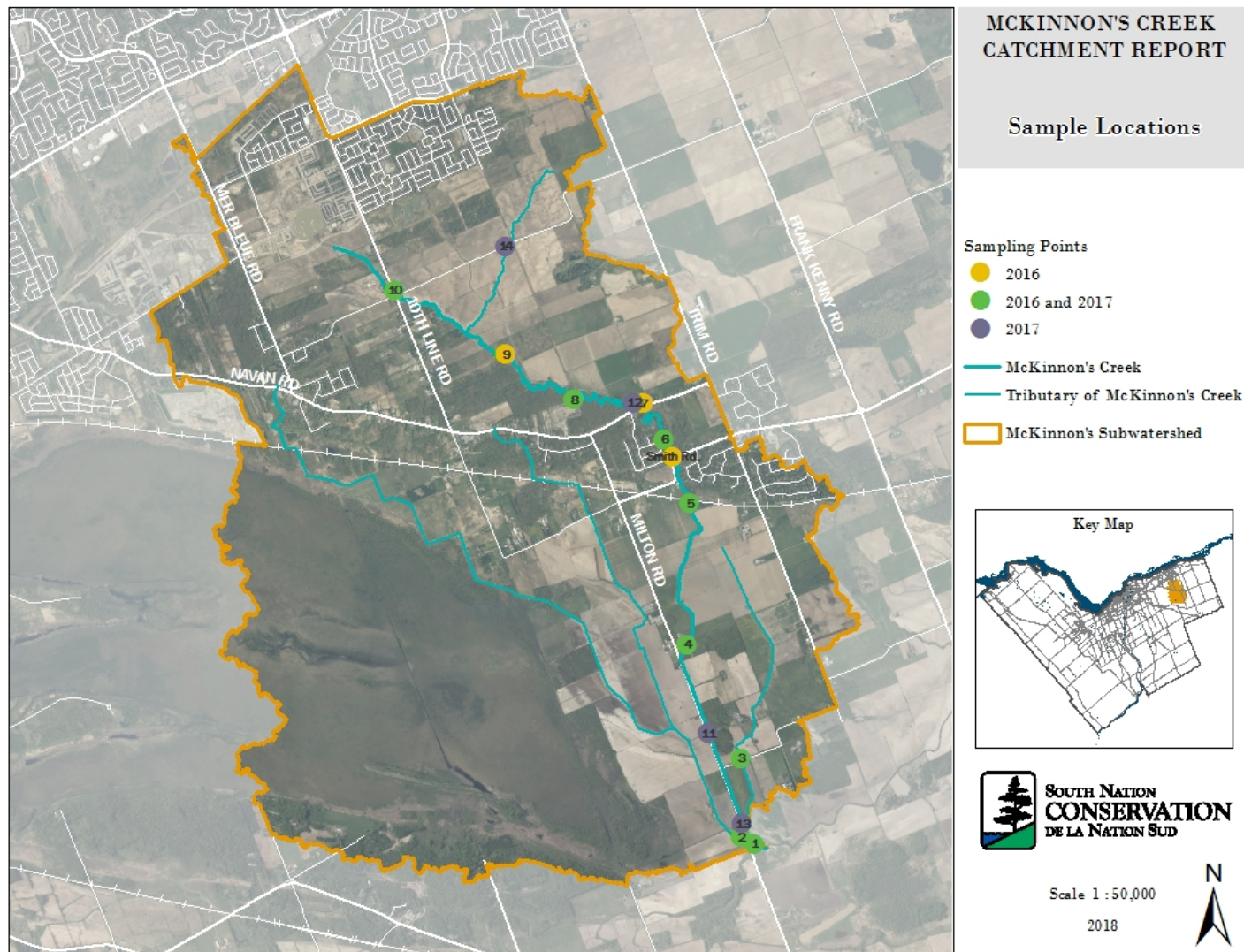


Grab sample destined for metal analysis

- SNC staff will pick up 8 surface water baseline sites from City of Ottawa Public Works Environmental Support Services
- Includes sites in Bear Brook and Castor River subwatersheds



McKinnon's Creek Catchment Study



- Final Report will be available March 31, 2018



North Castor Catchment Study

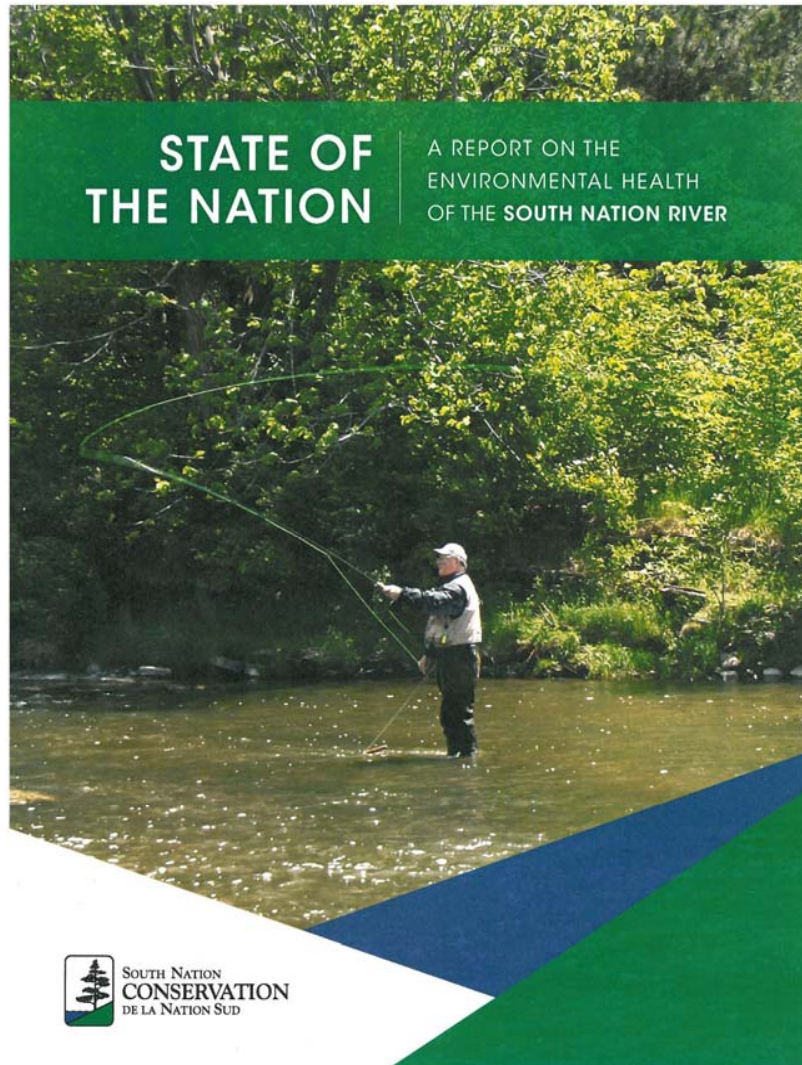


Staff deploying sensors in Findlay Creek

- Staff planning 2018 field season to collect baseline data on North Castor
- Monitoring will include:
 - Water quantity (base flow, deployable sensors)
 - Water Quality (grab samples, deployable sensors)
 - Fisheries
 - Benthic invertebrates



State of the Nation



- 2018 Watershed Report Card is in production
- Evaluates condition of natural resources in the jurisdiction:
 - Forest
 - Wetland
 - Surface Water Quality
 - Groundwater Quality



Assessing Watershed Health



Headwaters Subwatershed

- Long-term Monitoring
 - Biological
 - Stream Assessments
 - Headwater Drainage Features
- Data collected will be used to create sub-watershed report cards.



WES Project – Shield's Creek



Shield's Creek, Greely

- Project to be completed in 2018
- Remaining work includes:
 - Sowing native grasses and forbs
 - Planting trees
 - Installing bird nesting boxes
 - In-water habitat enhancements



Sharing Data and Knowledge



Tributary of Cobb's Lake Creek

- Data request from University of Guelph
- Request: Fish data
 - 200 Stream Assessments
 - 10.15 km of streams shocked
 - 75 hrs of shocking the water
 - 30,267 fish captured
 - 55 species



Website Updates

[Water](#)[Land](#)[Recreation](#)[Development](#)[Resources](#)[About Water](#)[Source Water Protection](#)[Grant Programs ▾](#)[Watershed Monitoring ▾](#)[Surface Water](#)[Groundwater](#)[Invertebrates](#)[Stream Assessment](#)[South Nation River Fish](#)[Species at Risk](#)[Invasive Species](#)[Municipal Drains](#)[Watershed Conditions ▾](#)[Reports ▾](#)[Projects ▾](#)[Partnerships ▾](#)

Watershed Monitoring

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Healthy rivers, headwaters, and species in our watershed are key elements of SNC's strategic business plan. The ability to track and report on changes to these indicators of clean water supply is paramount to continuing the success of our unique history of watershed planning, management and reporting in Eastern Ontario. The scope of our science-based monitoring programs focus on key components of land and water ecosystems including surface and ground water, native species,



- Updates to SNC website
- Water Section
- Projects
- Fish Species List
- Showcasing Projects

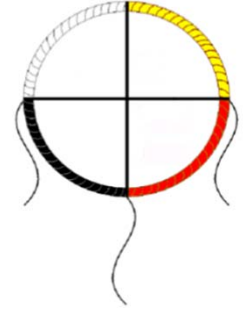


Example of "pit & mound" microtopography,
Maine USA.

- Monitoring the excavation site during spring melt;
- Native vegetation planting;
- Create "pit & mound" micro topography.



Partnerships in Action



Eastern Ontario First Nations Working Group



Flood Forecasting & Warning



Payne River @ County Rd 13 (April 6, 2014)

- Unseasonably above normal temperatures



Payne River @ Union St (Feb 22, 2018)



Chesterville Dam



Chesterville ON (Feb 26,2018)



- Ice buildup at the Chesterville Dam





Chesterville ON (Feb 27,2018)



Restoration Project Bank - App


 Potential Restoration Projects 

Date

February 7, 2017  

Observer

Land Owner



Is the proposed project terrestrial or aquatic?

☐ Terrestrial ☐ Aquatic

Severity Ranking

☒ 1; Non-Priority ☐ 2; Priority ☐ 3; High Priority ☐ 4; Very High Priority

Comments:

 Potential Restoration Projects 

Comments:

Image 01


 

Image 02


 

Image 03

Image 04

Our Local Environment, We're in it Together.



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