



SOUTH NATION
CONSERVATION
DE LA NATION SUD

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Fish and Wildlife Committee

Meeting Agenda

Date: June 1st, 2021

Time: 3:00 p.m.

****Conference/Video Call:** Meeting link, call in number, and conference PIN to follow by email



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Fish and Wildlife Committee

Meeting Agenda

June 1st, 2021 at 3:00 p.m.

1. Chair's Remarks
2. Approval of Fish and Wildlife Committee Agenda (Supplemental Agenda)
3. Declaration of Conflict of Interest
4. SNC Project Update – Powerpoint Presentation: Staff
5. Approval of:
 - i. Fish and Wildlife Committee meeting minutes of March 4th, 2021 3-9
6. Business Arising from Minutes (if any)
7. New Business:
 - a. Update: Conservation Authorities Act: Angela (Verbal)
 - b. Request for Approval: OFAH Summer Student Work Plan: Michelle 10-11
 - c. Update: Environment and Climate Change Canada Partnership: Michelle 12
 - d. Update: Grassland Initiative – SNC 164: Michelle 13
 - e. Update: 2021 Monitoring: Ryan 14-16
 - f. Update: Funding Submissions: Naomi 17-19
8. Supplemental Agenda (if any)
9. Correspondence:
 - a. Michael Rankin Distinguished Canadian Herpetologist Award 20
10. Roundtable Discussions
 - a. Community Engagement Activities
 - b. Watershed Monitoring Report
11. Date of Next Meeting:
 - September 7th, 2021
12. Adjournment

Ronda Boutz,
Team Lead, Special Projects.



FISH AND WILDLIFE COMMITTEE MEETING

Thursday, March 4th, 2021, 3:00 p.m. – Meeting 01/2021

By Electronic Participation

-
- Present:**
- Frederick Schueler, Committee Chair
 - Malcolm Clark, Russell Fish and Game Club
 - Bruce Clarke, Ottawa Fly Fishers
 - Alvin Cluff-Clyburne, Russell Fish and Game Club
 - Doug Culver, Naturalist and Recreational Angler
 - Stéphane Dubuc, Trapper
 - Abraham Francis, Mohawks of Akwesasne
 - Cyril Holmes, Grenville Fish and Game Club
 - Aleta Karstad, Fragile Inheritance Natural History
 - Shawn Landriault, Public Citizen
 - Kirk Myelde, Public Citizen
 - Bill Smirle, SNC Board of Directors, Past Chair, ex-officio
 - Larry E. Smith, South Nation Archery Supply
 - Doug Thompson, Public Citizen
- Regrets:**
- George Darouze, SNC Board of Directors, Chair, ex-officio
 - Pierre Leroux, SNC Board of Directors, Vice Chair, ex-officio
 - Joffre Cote, Ministry of Natural Resources and Fish and Wildlife (non-voting)
 - Ed Fields, Delta Waterfowl
 - Susan Gallinger, Public Citizen (non-voting)
- Staff:**
- Ronda Boutz, Team Lead, Special Projects
 - Michelle Cavanagh, Team Lead, Stewardship
 - Brent Harbers, Biologist
 - Naomi Langlois-Anderson, Senior Fish and Wildlife Technician
 - Dianne MacMillan, Administrative Assistant
 - Ryan Robson, Resource Technician
 - Katherine Watson, Water Resources Specialist
- Guest:**
- Donn MacMillan, Delta Waterfowl



CHAIR'S REMARKS

Fred Schueler, Committee Chair, called the Fish and Wildlife Committee meeting of March 4th, 2021 to order at 3:00 p.m.

Bill Smirle, Doug Culver, Shawn Landriault, and Doug Thompson joined the meeting at 3:04 p.m.

APPROVAL OF FISH AND WILDLIFE COMMITTEE AGENDA

RESOLUTION NO. FW-001/21

Moved by: Larry Smith
Seconded by: Doug Thompson

RESOLVED THAT:

The Members approve the Fish and Wildlife Committee meeting agenda of March 4th, 2021 as submitted.

CARRIED

DECLARATION OF CONFLICT OF INTEREST

There were no Declarations of Conflict of Interest.

SNC FISH AND WILDLIFE PROJECT UPDATE – POWERPOINT PRESENTATION

Staff presented Fish and Wildlife project and program updates.

APPROVAL OF THE FISH AND WILDLIFE COMMITTEE VIRTUAL MEETING MINUTES OF NOVEMBER 24TH, 2020

RESOLUTION NO. FW-002/21

Moved by: Shawn Landriault
Seconded by: Alvin Cluff-Clyburne

RESOLVED THAT:

The Members approve the Fish and Wildlife Committee virtual meeting minutes of November 24th, 2020 as submitted.

CARRIED



NEW BUSINESS

REQUEST FOR APPROVAL: ELECTION OF COMMITTEE CHAIR

RESOLUTION NO. FW-003/21

Moved by: Bruce Clarke
Seconded by: Malcolm Clark

RESOLVED THAT:

The Fish and Wildlife Committee appoint Ronda Boutz, Team Lead, Special Projects as the Acting Committee Chair; and

FURTHER THAT:

SNC Administrative By-law 15.3: '*All elections shall be in accordance with the Procedures for Election of Officers*' be adhered to.

CARRIED

Ronda Boutz, Acting Committee Chair, declared the Fish and Wildlife Committee Chair position vacant.

ELECTION OF COMMITTEE CHAIR

Call for nominations three times for election of Chair (no seconder required)

First Call for Nominations:

Moved by: Alvin Cluff-Clyburne

Fred Schueler be nominated for Chair, Fish and Wildlife Committee.

Fred Schueler accepted the nomination of Chair, Fish and Wildlife Committee.

Second Call for Nominations: None

Third Call for Nominations: None

Hearing none, nominations closed for the position of Chair, Fish and Wildlife Committee.



Approval of the following Motion:

RESOLUTION NO. FC-004/2021

Moved by: Doug Thompson

Seconded by: Doug Culver

RESOLVED THAT:

For the year 2021, and until the Joint Standing Committee meeting of 2022, that Fred Schueler be elected as Chair of the Fish and Wildlife Committee.

CARRIED

REQUEST FOR APPROVAL: 2021 COMMITTEE MEMBERS

RESOLUTION NO. FW-005/21

Moved by: Larry Smith

Seconded by: Doug Thompson

RESOLVED THAT:

The Fish and Wildlife Committee recommends the following Committee membership to the Board of Directors for 2021:

- Malcolm Clark, Russell Fish and Game Club
- Bruce Clarke, Ottawa Fly Fishers
- Alvin Cluff-Clyburne, Russell Fish and Game Club
- Joffre Cote, Ministry of Natural Resources and Fish and Wildlife, (non-voting)
- Doug Culver, Naturalist and Recreational Angler
- Stéphane Dubuc, Trapper
- Ed Fields, Delta Waterfowl
- Abraham Francis, Mohawks of Akwesasne
- Susan Gallinger, Public Citizen (non-voting)
- Cyril Holmes, Grenville Fish and Game Club
- Aleta Karstad, Fragile Inheritance Natural History
- Shawn Landriault, Public Citizen
- Kirk Myelde, Public Citizen
- **Frederick Schueler, Committee Chair**
- Larry Smith, South Nation Archery Supply
- Doug Thompson, Public Citizen
- George Darouze, SNC Chair, ex-officio



- Pierre Leroux, SNC Vice Chair, ex-officio
- Bill Smirle, SNC Past Chair, ex-officio

CARRIED

UPDATE: 2021 STEWARDSHIP WORK PLAN

RESOLUTION NO. FW-006/21

Moved by: Alvin Cluff-Clyburne
Seconded by: Doug Thompson

RESOLVED THAT:

The Fish and Wildlife Committee receive and file the 2021 Stewardship Work Plan update; and

FURTHER THAT:

The Fish and Wildlife Committee provide comments for consideration on the 2022 Stewardship Workplan deliverables.

CARRIED

UPDATE: INDIGENOUS PARTNERSHIPS

RESOLUTION NO. FW-007/21

Moved by: Bruce Clarke
Seconded by: Kirk Myelde

RESOLVED THAT:

The Fish and Wildlife Committee receive and file the Indigenous Partnerships update report.

CARRIED

UPDATE: EMERALD ASH BORER PARASITOID RELEASE PROJECT

RESOLUTION NO. FW-008/21

Moved by: Alvin Cluff-Clyburne
Seconded by: Larry Smith

RESOLVED THAT:

The Fish and Wildlife Committee receive and file the update on the Emerald Ash Borer Parasitoid Release Project.

CARRIED



UPDATE: FUNDING SUBMISSIONS

RESOLUTION NO. FW-009/21

Moved by: Alvin Cluff-Clyburne

Seconded by: Malcolm Clark

RESOLVED THAT:

The Fish and Wildlife Committee receive and file the grant submission update.

CARRIED

CORRESPONDENCE

- a. Conservation Ontario's Comments on the Drainage Act Regulator Proposal

ROUNDTABLE DISCUSSIONS

A. COMMUNITY ENGAGEMENT ACTIVITIES

Donn MacMillan, Delta Waterfowl

- Youth hunt cancelled for 2021 due to COVID pandemic.
- Using alternate approaches: installation and monitoring of 22 duck nesting boxes
- Early stages of developing a new initiative to develop wood box kits to be offered to watershed youth. Hoping to coordinate with SNC to administer this new initiative.

Abraham Francis

- World Wetlands Day:
 - Hosted an online; experienced difficulties with online format and considering using YouTube in future.
 - More successful with intergeneration water dialogues; produced good discussions on relationships with water; a lot of participation.

Fred Schueler

- Working with North Grenville “Blue Communities” program
- Ontario River Keeper: measuring salt in water as a result of road salt application; showing some effects; noted residual Champlain Lake seawater in parts of South Nation watershed.
- Researched hydro lines in Limerick forest; found native phragmites, which would have established during the original hydro line construction.



B. WATERSHED MONITORING REPORT

Larry Smith

- Noted moose tracks, west of Williamsburg dump – November and December and west of Monkland. More details in submitted email report.

DATE OF NEXT MEETING

- June 1st, 2021, virtual, at 3:00 p.m.

ADJOURNMENT

RESOLUTION NO. FW-011/21

Moved by: Doug Thompson

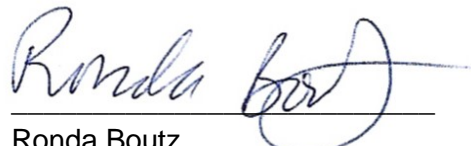
RESOLVED THAT:

The Fish and Wildlife Committee meeting of March 4th, 2021 be adjourned at 4:28 p.m.

CARRIED

Fred Schueler,
Committee Chair.

/dm



Ronda Boutz,
Team Lead, Special Projects.



To: Fish and Wildlife Committee
From: Michelle Cavanagh, Team Lead, Stewardship
Date: May 25, 2021
Subject: Request for Approval: OFAH Summer Student Work Plan

RECOMMENDATION:

The Fish and Wildlife Committee approve the OFAH Summer Student Work Plan.

DISCUSSION:

SNC has partnered with the Ontario Federation of Anglers and Hunters (OFAH) since 2007 to support a yearly summer student at SNC. The OFAH student typically has tasks assigned by OFAH that include education and outreach, distributing information, and keeping a log of Invasive Alien Species encountered. The remainder of their time is spent assisting with SNC programs and projects, with a focus on invasive species.

A brief workplan has been prepared which outlines this year's tasks for the OFAH student. There is flexibility in the workplan and new tasks may be added as the summer progresses depending on priorities and identification of new issues.

FINANCIAL IMPLICATIONS/ADHERENCE TO SNC POLICY:

Compliance with Budget: OFAH pays the student's salary (minimum wage) for 10 weeks. SNC pays any top-ups and extensions, as needed. Funding for student positions is included in the 2021 Budget, under Organization Effectiveness, Corporate Services, Administration, pages 78-79.

SNC Policy Adherence: Students adhere to SNC's Personnel Policy and Health and Safety Policy and Procedures. Any activities related to the SNC Forest adhere to the SNC Forest Policy.

Michelle Cavanagh,
Team Lead, Stewardship

Attachment: OFAH Student 2021 Work Plan



2021 OFAH Student Work Plan

Major Tasks Related to Invasive Alien Species (IAS)

*Subject to change depending on Public Health restrictions due to the ongoing pandemic.

Education and Outreach:

- Attend fairs and events to circulate flyers and pamphlets on IAS management
- Provide information and educational materials to:
 - Local bait shops and fishing/outdoors
 - Local plant nurseries
- Contact and participate in Renegade Bass Tournaments held annually in Eastern Ontario.
- Contact local horticultural societies to offer IAS presentations
- Attend the SNC Youth Fishing Camps to provide presentations on IAS

Data Management:

- Review past SNC spreadsheets, IAS collection methods, and consolidate SNC IAS files
- Add invasive species control projects to Survey 123 app for restoration projects
- Enter IAS monitoring data into EDDMapS Ontario and SNC property files

Monitoring and Removal:

- Re-visit past IAS control sites to report on effectiveness of control methods and suggest follow-up work
- Complete IAS monitoring at grassland sites to verify IAS presence and prepare a removal plan, if needed
- Identify high priority infestation locations by species/location/size/feasibility
- Assist SNC staff with buckthorn and phragmites removal projects as needed



To: Fish and Wildlife Committee
From: Michelle Cavanagh, Team Lead, Stewardship
Date: May 25, 2021
Subject: Update: Environment and Climate Change Canada Partnership

RECOMMENDATION:

The Fish and Wildlife Committee receive and file the Environment and Climate Change Canada Partnership update report.

DISCUSSION:

In 2019, with funding from Environment and Climate Change Canada (ECCC), SNC created vernal pool habitat on two SNC properties. The pools were to be monitored in the spring through to the fall of 2020 for Western Chorus Frogs and water depths to assess the functionality of the project. Due to the pandemic, the spring monitoring was put on hold and only water depths were able to be monitored for the remainder of 2020.

ECCC approached SNC to carry out the postponed spring monitoring of the pools in 2021. Water depth monitoring from thaw until November was also requested. With the help of Kirk Myelde, a Fish and Wildlife Committee member, the monitoring of the vernal pools has been ongoing since March.

Further discussions with ECCC led to interest in SNC's past turtle nesting habitat creation projects. Eight projects were completed between 2009 and 2015. ECCC requested SNC evaluate the status of the projects to better understand their effectiveness over time.

SNC is monitoring the projects weekly for turtle nesting activity from May to June 2021 and will report on the results to ECCC.

FINANCIAL IMPLICATIONS/ADHERENCE TO SNC POLICY:

Compliance with Budget: This project is not included in the 2021 Budget; it is 100% cost recovery.

SNC Policy Adherence: All field work activities will adhere to SNC Health and Safety Policies and Procedures.

Michelle Cavanagh,
Team Lead, Stewardship.



To: Fish and Wildlife Committee
From: Pat Piitz, Team Lead Property
Date: May 19, 2021
Subject: Update: Grassland Initiative – SNC 164

RECOMMENDATION:

The Fish and Wildlife Committee receive and file the Grassland Initiative – SNC 164 update.

DISCUSSION:

In 2019, South Nation Conservation (SNC) acquired SNC164, in Edwardsburgh-Cardinal, under the Ecological Gifts Program. The property featured approximately 42 acres of grassland habitat for two grassland species at risk birds. The property also featured a culturally and ecologically diverse range of hedgerows. The previous owner maintained these grassland habitats through annual harvesting of hay in partnership with local farmers. SNC was successful in an application to Grasslands Ontario, a division of Forests Ontario, to complete inventory and assessment of the site, to develop and implement a crop management plan conducive to the bird species of concern and monitor long-term effectiveness. This financial support will enable SNC to maintain the grassland habitat through a bird-friendly hay harvesting schedule.

Agricultural and Agri-Food Canada (AAFC) has since agreed to partner with SNC on this project. AAFC will provide additional financial support and a wide range of in-kind technical expertise in botany, ornithology, and crop science to develop management plans and long-term monitoring to support their research objectives. One of AAFC's specific interests is the in-situ protection of genetic resources in the grasslands and hedgerows.

FINANCIAL IMPLICATIONS/ADHERENCE TO SNC POLICY:

Compliance with Budget: The project was not included in the 2021 Budget. Any matching contributions from SNC would come from resources already included in the 2021 Budget.

SNC Policy Adherence: All expenditures will adhere to SNC's Purchasing Policy, including seeking three quotes and required authorizations according to purchasing limits. All work undertaken to complete the projects will adhere to SNC's Health and Safety Policies and Procedures.



Pat Piitz,
Team Lead Property.



To: Fish and Wildlife Committee
From: Ryan Robson, Resource Technician
Date: May 25, 2021
Subject: Update: 2021 Monitoring

RECOMMENDATION:

The Fish and Wildlife Committee receive and file the 2021 Monitoring update.

DISCUSSION:

Each year, a wide variety of environmental projects are undertaken which require the collection, analysis and reporting of scientific data. This work begins in the spring once the majority of the snow on the landscape has melted and the watercourses are ice-free. Some of this work has been impacted by the COVID-19 pandemic, similar to the 2020 field season.

SNC developed standard operating procedures (SOP) to specifically address protecting staff and the public from transmission of COVID-19 while performing field work. Procedures are used in conjunction with other relevant Health and Safety Policies. These documents are updated based on information and direction provided by government and health authorities.

The following are the various field activities planned for 2021 along with any modifications that are required as a result of the pandemic.

Headwater Drainage Features

As part of the South Bear Brook Catchment Study, 60 headwater drainage features were to be assessed in 2021. This included 30 sites that were not able to be assessed in 2020. The work is typically completed over a one- or two-week period early in the spring when there is water present in these small, temporary drainage features.

The work started in March, following the appropriate SOP, and a total of 55 sites were completed. The sites will be re-visited in late summer to collect photos of the features when they are dry.



Biological Community Sampling

Fish sampling is planned for this spring as part of the South Bear Brook Catchment Study. The planned methodology is to use a combination of electrofishing, seine netting and trap netting depending on the specific site conditions.

Municipal drain classification work is planned for July and typically involves backpack electrofishing. A total of 6 municipal drains will be sampled and the information will be provided to Fisheries and Oceans Canada.

Benthic invertebrate sampling occurs annually in the Fall using nets to collect invertebrates by kicking up the substrate. The samples are sent to a consultant for processing and identification.

Water Quality Sampling

The Provincial Water Quality Monitoring Network (PWQMN) is a long-standing partnership program with the Ministry of Environment, Conservation and Parks (MECP). Typically running from April to November, water samples are collected monthly from 14 stations within the watershed and sent to the MECP lab for a detailed analysis. Sampling did not occur in April due to the provincial lockdown measures. Staff are planning to resume sampling at the end of May.

Through a special levy from the City of Ottawa, SNC completes water quality sampling at 12 locations within the City. Water samples are collected monthly during ice free conditions and delivered to the City of Ottawa lab for analysis. Sampling will begin in May and continue until November.

City Stream Watch

This program is volunteer-based and involves walking a length of watercourse and recording morphological characteristics of the watercourse, as well as identifying areas in need of stewardship activities. All work with outside volunteers has been postponed. Staff have modified the data collection portion of this program so that meaningful information can be collected while adhering to the SOP.

Other planned monitoring activities include survival assessments of past riparian planting projects, groundwater well maintenance and manual water level readings, and invasive species distribution mapping on SNC properties. These activities can be completed by one staff person and will adhere to the SOP.



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FINANCIAL IMPLICATIONS/ADHERENCE TO SNC POLICY:

Compliance with Budget:

No impact on 2021 SNC Budget.

SNC Policy Adherence:

Field work adheres to the SNC Health and Safety Policy.

A handwritten signature in blue ink, which appears to read "Ryan Robson", is written over a horizontal line.

For: Ryan Robson,
Resource Technician



To: Fish and Wildlife Committee
From: Naomi Langlois-Anderson, Sr Fish and Wildlife Technician
Date: May 25, 2021
Subject: Update: Funding Submissions

RECOMMENDATION:

The Fish and Wildlife Committee receive and file the grant submission update.

DISCUSSION:

The following is a summary of funding submissions from January 2021 to date:

Grant Name	Project Name	Status	Amount Requested
Grasslands Ontario: Grassland Stewardship Initiative	Grassland Habitat Enhancement and Hay Field Rejuvenation	Submitted: January 22, 2021 Status: Approved	\$17,782
Ontario Power Generation	Biodiversity Conservation in Partnership with Indigenous Communities	Submitted: February 11, 2021 Status: Approved	\$5,000 (2021) \$5,000 (2022) \$50,000 (2023)
Habitat Stewardship Program	Forest Bird Monitoring	Application Due: March 2, 2021 Status: Pending	\$6,000
National Disaster Mitigation Program	Bear Brook and Tributaries Hazard Mapping	Submitted: December 1, 2020 Status: 3 Approved <ul style="list-style-type: none">• Bear Brook and Tributaries Hazard Mapping• Ottawa River Flood Hazard Mapping• Flood Risk Assessment Partnership	\$265,747
	Ottawa River Flood Hazard Mapping		\$170,056
	Flood Forecasting and Warning Improvements in the South Nation River Watershed		\$85,028
	Flood Risk Assessment Partnership		\$168,881
	Data Acquisition to Support Eastern		\$899,546



Grant Name	Project Name	Status	Amount Requested
	Ontario Flood Risk Assessments, Floodplain Mapping, and Flood Forecasting and Warning (LiDAR)		
EcoAction Community Funding Program	Oak Valley Restoration	Application Due: March 3, 2021 Status: Denied	\$50,000 (2-year)
Smart Great Lakes Mini-grants Program	Development and installation of the St. Lawrence River Hydrometric Laboratory	Application Due: March 12, 2021 Status: Denied	\$82,956
Canada Nature Fund	Implementation of South Nation Conservation Land Securement Strategy	Application Due: March 19, 2021 Status: Denied	\$125,000
2 Billion Tree Program	SNC Forests – tree planting on SNC 7	Application Due: March 25, 2021 Status: Approved	\$16,890
Laflèche Wetland Trust Fund	Land Acquisition	Application Due: Open Status: Pending	\$250,000
Stormont Dundas Glengarry Regional Tourism Grant	Bridge Replacement	Application Due: March 30, 2021 Status: Denied	\$5,000
Fisheries and Oceans Canada	Classifying Unrated Municipal Drains	Application Due: May 14, 2021 Status: Pending	\$10,000
Rural Economic Development Program	Shoreline Restoration and Washroom Replacement	Application Due: March 30, 2021 Status: Pending	\$35,550
UCPR Waterfront Tourism Development Fund	St. Albert Park and Dock Improvement	Application Due: March 30, 2021 Status: Approved	\$4,000
Ontario Community Environment Fund	East York Creek Shoreline Stabilization	Application Due: June 23, 2021 Status: In Progress	\$40,000



Grant Name	Project Name	Status	Amount Requested
Climate Action Awareness Fund	SNC Forest Inventory and Carbon Models	Expression of Interest Due: June 3, 2021 Status: In Progress	\$425,000

Summary of Submissions:

- In Progress: 2 submissions, \$465,000
- Pending: 4 submissions, \$301,550
- Approved: 7 submissions, \$703,356
- Denied: 6 submissions, \$1,247,530

FINANCIAL IMPLICATIONS/ADHERENCE TO SNC POLICY:

Compliance with Budget:

The 2021 SNC Budget includes external grants under Resource Management, Projects, Federal and Provincial Grant Programs, p. 26-27.

SNC Policy Adherence:

All expenditures and activities will adhere to SNC's Purchasing Policy and SNC's Health and Safety Policies and Procedures.

Naomi Langlois-Anderson

Naomi Langlois-Anderson,
Sr Fish and Wildlife Technician.



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Michael Rankin Distinguished Canadian Herpetologist Award Recipients

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Year ▼	Recipient	Comments
2020	Dr. Frederick W. Schueler	<p>The Michael Rankin Distinguished Canadian Herpetologist award is presented to an individual in recognition of lifetime achievement in the study of amphibians and/or reptiles in Canada, and this year, CHS recognizes Dr. Frederick W. Schueler's extensive and ongoing contributions. Dr. Schueler has authored and co-authored over 30 peer-reviewed publications of scientific research and natural history notes on reptiles and amphibians, as well as a multitude of government reports, magazine articles, newsletter articles, and local newspaper articles, contributing to the conservation and collective knowledge of reptiles and amphibians in Canada across broad and diverse audiences. Dr. Schueler is legendary for introducing local citizens, curious naturalists, and budding herpetologists to the Mudpuppy, <i>Necturus maculosus</i>, by hosting over 25 years of Mudpuppy Night in Oxford Mills (for which he received the Silver Salamander Award in 2005). In the early 1990's, Dr. Schueler and his wife, Aleta Karstad, completed a Herpetofaunal Inventory of Outer Bruce Peninsula for the Canadian Museum of Nature/Canadian Parks Service. Over the years they've founded The Biological Checklist of the Kemptville Creek Drainage Basin, an all-taxa biodiversity database, marking the beginning of long-term monitoring of native and introduced species in the area; the Eastern Ontario Biodiversity Museum; the Thirty Years Later Expedition, revisiting previously observed sites to document ecological change; and Fragile Inheritance, launched in 2010 to encourage traditional and quantitative field observations, archive original field notes, and facilitate electronic storage, retrieval, and analysis of natural history data. Since 2015, Fred and Aleta have travelled to CPAWS' Dumoine River art camps and bioblitzes, participated in the New Brunswick Museums' BiotaNB, and continued local fieldwork, along with providing counsel to communities and individuals in eastern Ontario who find their surroundings threatened by ecological disruption.</p>

