



**INTRODUCING**  
Eramosa Corridor  
Property One

A photograph of a white-tailed deer buck with large, velvet-covered antlers. The buck is standing in a forest, looking directly at the camera. The background is filled with tree trunks and foliage, with some light filtering through the trees.

# REVIEW

**FALL/WINTER 2019**

White-tailed Deer Buck. Photo by M. Weissmann



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PLANET

IN THE

SQUARE

APRIL 22 2020 | CENTRE IN THE SQUARE  
101 QUEEN STREET NORTH, KITCHENER | 7:00PM - 10:00PM

Join **rare** and Musagetes for Planet in the Square — by **rare**. Canada's best-known photographer, Edward Burtynsky will share the stage with winner of the 2016 International Children's Peace Prize, environmental youth leader, and one of Canada's Top 25 Women of Influence, Kehkashan Basu.

Contact Chris Ainsworth, Events & Sponsorship Manager for Sponsorship:  
[Chris.Ainsworth@raresites.org](mailto:Chris.Ainsworth@raresites.org) | (226) 989-8838 | [raresites.org](http://raresites.org)



# Introducing Eramosa Property One

## Why We Protect Land Now

By *Tom Woodcock* **rare** Planning Ecologist

Overpopulation and the resulting habitat loss and assault on climate are key threats to biodiversity. Yet, biodiversity is what we need to sustain ourselves. Nearly three quarters of the world's land surface is used to support human beings in some way, in the production of food, fibre, or building materials. Simultaneously, estimates of world fisheries stock shows that most are fished unsustainably, with populations only a fraction of what they once were. Most of the world's vertebrate animals are now either human beings or the livestock kept to feed them. The ecological functions required to keep this system running, such as cleaning air and water and managing nutrients, are being squeezed into smaller and smaller natural areas.

Land conservation and stewardship, the primary mandate of land trusts such as **rare**, are locally-based solutions to these problems. Although empirical studies suggest that conserving 50 per cent of the planet is necessary, a global agreement known as the Aichi targets aim for 17 per cent of land surface and 10 per cent of marine habitats to be fully protected by 2020. Canada has agreed to pursue these minimal targets, which are merely a convention all parties could agree on, and not based on science. The countries who

subscribed to the targets identified them as a first step to reverse course and to take action on climate change in a manner that seemed achievable. Ideally, this will include the full range of habitats and biodiversity within the country. In heavily populated areas such as southern Ontario, conserving a sufficient land base is a particular challenge. Few intact habitats remain. Almost all land is expensive, privately owned, and divided into small parcels.

In Waterloo/Wellington, the **raresites** Land Securement team is working to secure land through donations — under the federal Ecological Gifts Program, or purchase, as well as conservation easements. Across southern Ontario, land trusts are working hard, seeking to create a network of connected and protected lands in Canada's most biodiverse region. The **raresites** Land Securement Strategy searched Waterloo/Wellington for desirable conservation areas with the goal to assemble the largest and highest-possible quality protected areas. Woodlands, wetlands, and floodplains were all evaluated and included in a model that ultimately identified target areas for **raresites** efforts. At **rare**, we are proud to announce that we have achieved the first step along this road with the recent purchase of Eramosa Corridor Property

One, located near Rockwood.

The Eramosa River Valley has many areas of intact habitat from the headwaters to Guelph, where it meets the Speed River — a priority for conservation. Eramosa Property One is a green corridor of highly sensitive landscapes, including mature forest, floodplain habitats, and Provincially Significant Wetlands. Protecting the river and its adjacent uplands and forests forever unleashes potential for youth programs and partnerships in conservation, ensuring the health of the lands that are so vital to the health of thousands of species, including our own, and that of future generations. We look forward to protecting many more properties in this area as part of **rare's** Eramosa River Conservation Corridor.

Stay tuned to learn about upcoming opportunities for stewardship, research and education based on **rare's** unique method of conservation in the near future!

A special thank you to all the funders that made Eramosa Property One possible: The Ontario Trillium Foundation, Nature Guelph, The Neighbourhood Group, the MacLean Foundation, The Gosling Foundation, Waterloo Region Nature, the ECHO Foundation, as well as many generous donors.



Eramosa Corridor Property One. Photo by A. Zeberek





Indigenous Research Fellow shows plant to Executive Director at the Eramosa Community BioBlitz. Photo by A. Zeberek



**TD Friends of the  
Environment Foundation**

## A Search & Celebration: First Eramosa Community BioBlitz a Success

By **Jenna Quinn**, *rare* Program Scientist — *Research Priorities, Partnerships & Monitoring*

Bioblitzes are short-term field survey events that bring together researchers, naturalists and interested community members who want to learn more or test their field skills. Together, they record as many species as possible in a given area over a set time period. These events have helped grow the species list at *rare* to over 4,000 known plants, insects, birds, mammals, and more that live in the diverse habitats *rare* stewards. This summer, it was with great excitement that we celebrated the purchase of our first property in *rare's* newly created Eramosa River Conservation Corridor with a blitz! This event engaged a wide range of participants in community-based science and was the first opportunity to explore the newly acquired and protected lands. The Bioblitz also exponentially increased our scientific knowledge of the species found and informed our growing species inventory for the *rare* Eramosa River Conservation Corridor.

Over the course of the two-day event, more than 100 participants joined us in making 1,500 nature observations. They also hiked the 87 acre reserve, which includes Provincially Significant Wetland, mature cedar swamp, high-quality mixed forest, agricultural fields, open meadow, and riparian areas along the Eramosa River. Participants made nearly 450 unique species observations. More than 300 of those were new to our species list for the area.

Our community blitz kicked off Friday evening with a birding hike at dusk. After dark, we held an owl prowl and moth surveys. Led by Ross Dickson and Alan Macnaughton, two different types of live traps were used to explore the diversity of moths on the reserve — which was a tremendously successful effort. More than 20 per cent of the species list identified during the blitz were moths, including the Pink-shaded Fern Moth, believed to be the first observation of this species in Wellington County. Saturday was filled with expert-led guided explorations focused on habitats like wetlands and the river, or on species groups like birds, plants, and pollinators.

The information collected at this event will be invaluable for planning future long-term monitoring programs and developing a management plan for the area. Thank you to all who participated and helped us search, explore, and observe everything from maple trees to spittlebugs. This event would not have been possible without the generous support of TD Friends of the Environment. Please contact *rare's* Gosling Engagement Coordinator, Laura Klein at [Laura.Klein@raresites.org](mailto:Laura.Klein@raresites.org) if you would like to volunteer at future events or start a community monitoring and stewardship team.

## *rare* to Me: Land Aquisition

By **John Prescott**, *Nature Guelph*

Land acquisition for conservation purposes in Guelph/Wellington (GW) is important for so many reasons, but especially in the light of the continued loss of natural areas for urban sprawl in the GW area and globally. We need to protect conservation land in perpetuity. For Nature Guelph, it is important to secure lands locally, to show tangible commitment to conservation beyond just in its mission statement. I've enjoyed and learned a lot from being part of the *raresites* land securement team, which I've found to be very dedicated. The *raresites* team has considerable expertise and depth of understanding of conservation related issues, and their complexity. Being involved with *raresites* makes us part of a movement and leverages what we can do. Nature Guelph supported *rare's* recent land purchase along the Eramosa River with over \$30,000 of club and member donations. Our organization will be involved in developing the stewardship strategy. This will help us continue to learn, since member education is also one of our purposes. We'd like to continue to be involved in land securement, not as a one-off project, but as part of who we are.





Snapping Turtle crossing Blair Road. Photo by S. Marshall

# Towards Preventing Habitat Fragmentation

By **Tom Woodcock**, *rare* Planning Ecologist, **Sarah Marshall**, *rare* Conservation Technician & **Jenna Quinn**, *rare* Program Scientist — Research Priorities, Partnerships & Monitoring

Biodiversity, habitat size, and habitat isolation form a key relationship in ecology. Increasing a habitat's area ten-fold will double the number of species it can support. In large habitats, each species' population tends to be larger, and so is more likely to persist during difficult conditions. Isolated habitats tend to have fewer species because they are difficult to reach and cannot be populated as easily.

As habitats are broken into smaller and smaller pieces by development and roads, we can expect each area of habitat to support fewer and fewer species. Those species that require large areas to sustain their populations will be the first to disappear. This includes for example large predators such as wolves or badgers. However, many smaller species are poor at dispersing to new habitats. A small insect may find a road an insurmountable barrier. A rodent crossing a bare trail only a few feet wide may fatally expose itself to predators.

In urban and urbanizing areas like southern Ontario, the situation becomes more complicated. There is tremendous pressure to convert remaining lands to other uses. The technology exists to transform the most difficult terrain if property values rise high enough. Conservation lands or protected landscape features like forests and wetlands become more isolated and surrounded by other land uses. The quality of habitat at the edges becomes reduced. Human activity brings roadways, invasive plants, trash and other issues. If not planned well, paths and trails penetrate the features, fragmenting them even further.

Turtles are one of the groups of wildlife most vulnerable to road mortality. Juvenile

turtle survival rates are quite low even in a natural environment. Once a turtle reaches adulthood, its natural strategy is to live many years, with few natural predators, and reproduce more each year throughout the rest of its life. With the increase in roads, more turtles are being hit by cars than ever before. This has led to a dramatic decrease in turtle populations across southern Ontario.

The keys to coexisting with biodiversity are to prevent further habitat fragmentation and to increase connectivity among the fragments that do exist. To improve connectivity, we must minimize mortality associated with roads. We can add wildlife crossings, change driving behaviour, and acknowledge that roads should be kept out of sensitive habitats. Since 2016, **rare** has been monitoring the three-kilometre stretch of roadway that bisects our original Cambridge/North Dumfries reserve. With the help of dozens of community-based science volunteers, we collect data on what species are most often fatally impacted by the road and the locations where these impacts are most likely to occur. To date, more than 4,000 deceased individuals have been counted, with over 60 per cent being frogs and toads. Hotspot analysis is planned for this winter to better understand where along the three-kilometre stretch most animals are crossing.

This information influences restoration plans for the roadside habitat and potentially assists future mitigation planning. To help with future mitigation planning in upcoming seasons, sign up to be a road impact survey volunteer by checking the events calendar on [raresites.org](http://raresites.org) or contact **rare's** Gosling Engagement Coordinator Laura Klein at [Laura.Klein@raresites.org](mailto:Laura.Klein@raresites.org).

## FEATURED SPECIES: THE RUSTY CRAYFISH

By **Kristi Neufeld**, *rare* Ecological Monitoring Assistant



Rusty crayfish. Photo by L. Smith

While driving down Blair Road, you may notice a sign that reads, "Alien Invasions, good for movies, not for native species." This sign refers to invasive species, which are species not originally from Ontario. Invasive species compete with native species and have adverse effects on the existing ecosystems.

The Rusty Crayfish is an invasive species that is plaguing bodies of water across the province. Originally from the Ohio River in the United States, it is twice as large as native crayfish and more aggressive. Rusty Crayfish can be identified by their black tipped claws with oval gaps and rusty patches on their sides. Due to their size and behavior, they out-compete native species for food, eating macroinvertebrates, aquatic vegetation, fish eggs, and even small fish. This also removes food and cover required by native fish species, thereby negatively impacting a whole network of animals and plants within their habitat.

Unfortunately, we do find Rusty Crayfish in the Grand River at **rare**. They were also recently identified at our first Bioblitz in the Eramosa River Conservation Corridor. Our benthic monitoring team keeps a close eye on population numbers. Currently, there is no effective method to remove the species once it has settled in a habitat.

Like most invasive species, Rusty Crayfish spread easily due to humans moving them around, often as accidental stowaways. You can help stop the spread of this and other aquatic invasive species by draining water from boat motors, live wells and bilges, cleaning all aquatic equipment, and never transporting bait buckets from one body of water to another.



# Grazing the Way for Native Species

By Sarah Marshall, **rare** Conservation Technician

The Conservation & Land Management team at **rare** works hard to preserve and protect the **rare** lands through various conservation strategies. Invasive species management is one of our major strategies. Invasive species like Phragmites and Buckthorn have a negative effect on ecosystems quality, pushing out native species and reducing biodiversity. This year, through a grant from the Region of Waterloo Community Environmental Fund, **rare** has tested multiple invasive species removal methods — manual removal, grazing, tarping, herbicides, and more. We intend to find out the most efficient methods to remove invasive plants from the reserve that at the same time are as gentle and sustainable as possible. This included innovative approaches such as the recruitment of a unique team of volunteers: A herd of hungry goats.

As you may have seen from media outlets or **rare's** social media platforms, ten goats, rented from Growing Hope Farm, were a major attraction at the Springbank Farm this August. They chewed away the Common Reed (*Phragmites*) patch by our greenhouses. Surprisingly, the flowers were their favourite part, and they were always happy to greet **rare** staff with their loud bleats! Many volunteers have assisted other manual removal efforts, with nearly 400 volunteer hours dedicated to invasive species removal over the summer and fall.

Volunteers can get outside and enjoy the reserve while helping us tackle a number of invasive species. Sometimes this involves simple hand pulling of Garlic Mustard, Greater Celandine, and Himalayan Balsam. Other plants, like Buckthorn and Phragmites,

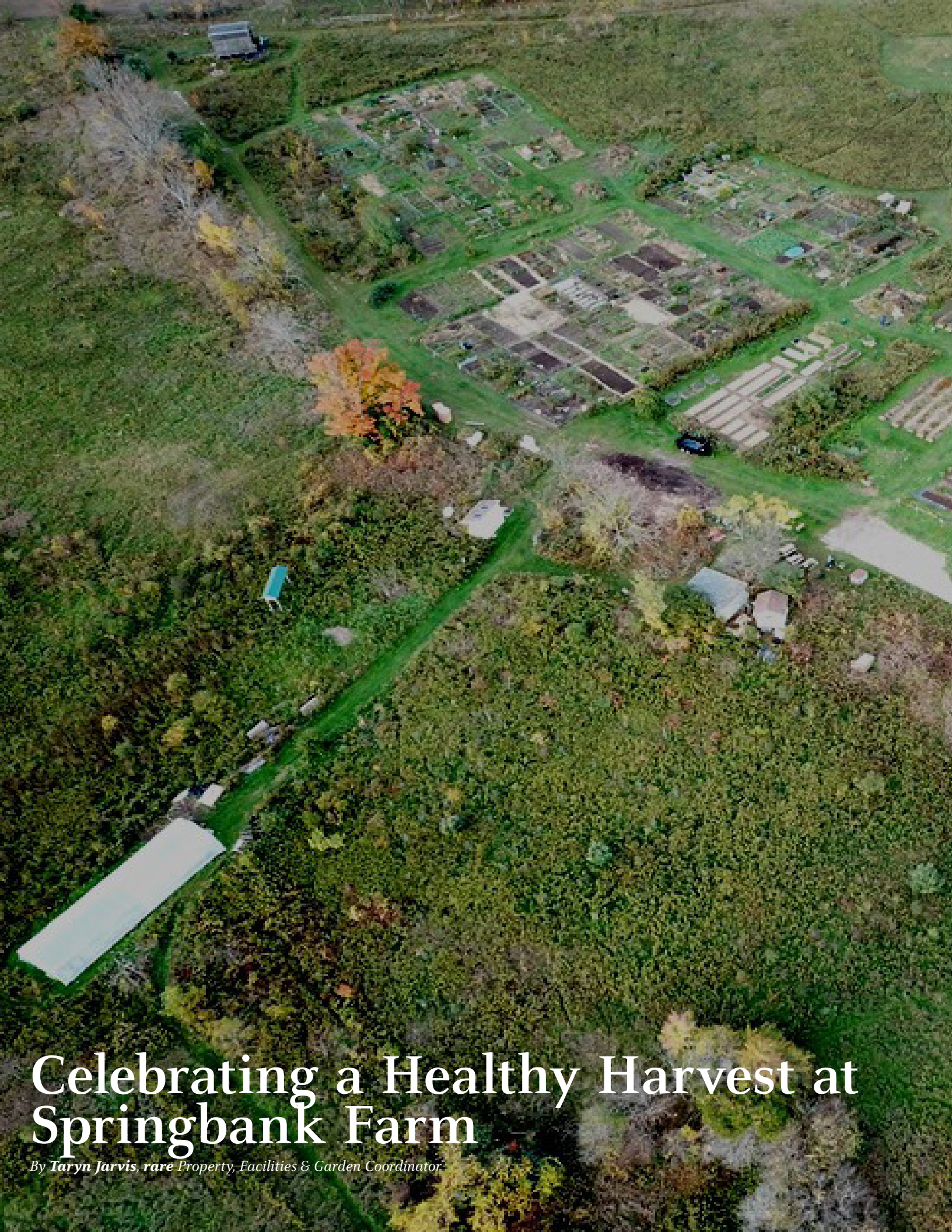
require special tools. We have successfully removed Phragmites by spading. We cut the grass below the ground with a sharp spade and swiftly remove the plant with little disturbance to the soil. For small Buckthorn saplings, we use a weed wrench. This tool, also called a “Puller Bear” grabs tightly onto the main stem and uses leverage to wrench the invasive shrub out of the ground, roots and all.

To discover options for volunteering with **rare** next year, please stop by and pick up our Passport to Nature. The booklet provides schedules and event descriptions, plus information about our organization, including trail maps. Volunteer days provide excellent skills for those interested in pursuing an environmental career, volunteer hours for high school credit, or opportunities to meet other community members interested in conservation. They also are a chance to burn some calories outdoors in a unique and helpful way. We recommend volunteers bring sturdy walking shoes, long pants, a water bottle, sunscreen and a camera to capture a challenging, but fun, day!



A hungry goat (left) eating *Phragmites*. Logan (right) provides the scale of *Phragmites* at **rare**. Photos by S. Marshall





# Celebrating a Healthy Harvest at Springbank Farm

By **Taryn Jarvis**, *rare* Property, Facilities & Garden Coordinator





Drone image of Springbank Farm. Photo by S. Bennett

## Food Bank Gardens

Challenging spring weather and a healthy and hungry deer and groundhog population created some gardening hurdles this season. Our vibrant volunteer base and seasonal staff nonetheless continued to grow high-quality organic vegetables, herbs and fruits for donation to the Cambridge Self Help Food Bank and the Food Bank of Waterloo Region with a total of 4,400 pounds harvested this year. Thank you to everyone who helped making the season a success despite the challenges!

## Minjimendan

*Minjimendan* (In a state of remembering) is an Indigenous food and medicine garden located at Springbank Farm. This garden restores native plant habitat based on traditional Indigenous Ecological Knowledge. Led by Mkomosé (Dr. Andrew Judge), many people have gathered to support planting, design, maintaining, harvesting, and preparing regional native foods this past season. Indigenous community members, local organizations and students continue to help bring Mkomosé's vision to life. In September, Minjimendan started the process of expanding for the next year! Learn more about Andrew's work at [mkomose.com](http://mkomose.com) and [minjimendan.com](http://minjimendan.com).

## United Way Moms in Biz — Kids in the Garden Series

A generous donation from a group of local female entrepreneurs allowed us to develop new garden workshops for children over the course of the summer. A local music teacher, a bee guardian, seed specialists brought their knowledge and entertainment and almost 150 kids enjoyed afternoons filled with nature, art and laughter in the garden. The Moms in Biz also volunteer their time teaching workshops in the Cambridge Self Help Food Bank kitchen and growing produce for the Food Bank of Waterloo Region using their own garden plot at **rare's** Springbank Farm.

## Yoga in the Garden

Every Wednesday in July we welcomed Moda Yoga to host Yoga in the Garden, a free open air yoga class offered in exchange for a donation to the Cambridge Self Help Food Bank. Mindfulness among sunflowers attracted many community members to enjoy the view and fresh air while finding some much needed relief from daily stressors.

## Education / Demonstration Gardens

As part of ECO Summer Camp, over 100 children spent a morning every week in the gardens, learning about compost, pollinators and organic gardening. They also picked and ate with great enthusiasm a wide variety of fresh produce from blueberries to zucchini, to kale to tomatoes and onions.

## Community Gardens

With 110 garden plots that are rented by local community members, the community gardens are a colourful and friendly place to spend your summer. If you are interested in joining our Community Garden in 2020, please contact Taryn Jarvis, Property, Facility & Garden Coordinator at [Taryn.Jarvis@raresites.org](mailto:Taryn.Jarvis@raresites.org) to be placed on the waiting list for a garden plot. The fee is \$60 from April 15 to November 15.

## Save the Date

Saturday, May 9 2020 will be **rare's** third annual Spring Plant Sale Fundraiser — we hope to see you there for organic seedlings, baked goods and so much more!



# Supporting Student Research at *rare*

By **Jenna Quinn**, *rare* Program Scientist — Research Priorities, Partnerships & Monitoring



Nathanael Harper



Heather Townsend



Kevin MacColl



Shannon French

Throughout the last decade, *rare* has implemented its research mission by offering a scholarship program to graduate students conducting environmental research in the broadest sense, supporting work that tackles important issues impacting our environment. We are pleased to announce this year's four recipients of the Ages Foundation Research Fellowship and Bursaries program, supported by the Cambridge & North Dumfries Community Foundation, Ages Fund.

Nathanael Harper, an MSc Candidate at the University of Waterloo, is studying an emerging technique to survey amphibians — frogs, toads, salamanders and newts. Amphibians live and breed in water environments. Over the course of their lifetimes, they shed cells into the water. These cells contain genetic material called environmental DNA or eDNA. Nathanael is testing the ability to detect that eDNA in water samples and use it to identify what species of amphibian are present in the waterbody. If successful, this method could enable monitoring of amphibian communities without resource-intensive surveys. It would be an essential tool in conservation efforts, particularly with species at risk. Nathaniel completed part of his training that led to his career path in ecology as a summer student at *rare*. Stay tuned to learn about Nathaniel's work!

Working with the Ecohydrology Research Group in the Department of Earth and Environmental Sciences at the University of Waterloo, MSc Candidate Heather Townsend is looking at the effects of ice

formation and winter on farmland soils. For two years, Heather has collected soil at *rare* to conduct a series of unique laboratory experiments to better understand how a changing climate may alter our soil.

Kevin MacColl, a PhD Candidate with the University of Guelph, is also asking questions related to the earth beneath our feet. For the past two field seasons, he has been studying *rare's* Blair Flats tallgrass prairie. He uses Blair Flats as an undisturbed grassland site to compare with other, more impacted sites across southern Ontario. Kevin is interested in better understanding the impacts of pollution from excessive fertilizer use on plant communities and the soil microorganisms they interact with.

Also recently completing two years of work at *rare*, Shannon French is a PhD Candidate with the Ontario Veterinary College at the University of Guelph. Shannon uses wildlife cameras to monitor raccoon latrines — communal “bathroom” sites for raccoons, often at the base of a tree or on fallen logs and stumps. Raccoons are carriers of a parasitic roundworm and shed the roundworm eggs in their feces. Their latrines are a potential infection point for other animals. Shannon observes what other species visit these sites to learn which animals are at the greatest risk of exposure to the raccoon roundworm.

Congratulations to all the fellowship and bursary recipients this year! Visit [raresites.org](http://raresites.org) to learn more about their projects and for the upcoming call for applications for the 2020 season.

## 2019 EASTERN COMMA ARTIST-IN-RESIDENCE: BONNIE DEVINE



Bonnie Devine —  
Flowers and Berries, Grand River (detail).  
Alum transfer on watercolour paper (2019)



# A New ECO Experience

By *Istafa Sufi, rare Educator* & *Matthew McGuire, rare Gill Ratcliffe Educator*

While schools were closed during the summer, plenty of learning happened at the annual **rare** Every Child Outdoors (ECO) Summer Camp. Over 100 students, between ages five to twelve, spent their camp days immersed in the local environment under the guidance of the new **rare** education team: Istafa Sufi, Matthew McGuire and summer student Gemma Romano. The three facilitators spearheaded an exciting camp experience, bringing with them activities from their backgrounds in environmental education, natural art and science.

ECO campers had the opportunity to work with researchers at **rare**, exploring and interacting with topics ranging from native pollinators to reptiles and amphibians. The campers were also joined by the Student

Arts and Innovation Lab (SAIL) from the University of Waterloo. Every Tuesday in the month of July, SAIL facilitated fun and engaging nature-based arts activities. An Indigenous Knowledge Keeper visited the camp regularly to share cultural teachings and related traditional crafts with the budding environmental stewards.

For many students, long hikes were the highlight of the week. Opportunities for discovery on a hike can be limitless. Swooping osprey mid-hunt, salamanders galore, and the hind leg of a deer were just the start of the list of exciting finds by the young explorers.

While the campers are back in school now, we hope their time at **rare** will stick with them for years to come. Their experience

here can inspire them on their individual paths of scientific inquiry and land stewardship.

*“The most important thing I learned from ECO Camp is to respect nature. If we don't take care of the plants and animals and take over their habitat, they'll die.”*

— Ben, age 8

If you are interested in registering your child in an upcoming ECO Camp, registration for March Break will be opening this January! Subsidies will be available upon request.



Summer ECO Camp. Photo by I. Sufi

We are pleased to host Bonnie Devine as **rare's** 2019 Eastern Comma Artist-in-Residence. Throughout September and October, Bonnie lived at North House, immersed in the natural landscape. During her time at **rare**, she also worked with local high school students exploring issues of land and environment using image-making traditions. The students created prints using natural dyes, wildflowers and plants found on the **rare** reserve. Bonnie is an installation artist, sculptor, painter, video maker, curator and writer. A descendant of the Anishinaabek of Genaabaajing (Serpent River First Nation), on the north shore of Lake Huron, Bonnie develops work that emerges from the storytelling and image-making traditions that are central to the culture of the

Anishinaabek peoples. Using cross-disciplinary approaches and iterations of written, visual and performative practice, Bonnie explores issues of land, environment, treaty, history and narrative. Though formally educated in sculpture and installation art at the Ontario College of Art and Design (OCAD U) and York University, her most enduring learning came from her grandparents, who were trappers on the Canadian Shield in northern Ontario.

Devine's installation, video, and curatorial projects have been shown in solo and group exhibitions and film festivals across Canada and in the USA, South America, Russia, Europe and China. Her work has been featured in venues including the Art Gallery of Ontario, the Berlin Film Festival, the National Museum of

the American Indian and Today Art Museum in Beijing China. The Founding Chair of the Indigenous Visual Culture program and an Associate Professor Emerita at OCAD University, Bonnie now lives and works in Toronto.

*The Eastern Comma Artists-in-Residence is a collaboration of the Musagetes Foundation and rare. Named after a butterfly found near water sources in the eastern half of North America, and sporting comma-like markings on the underside of its wings, this collaborative program showcases the connection between environment, sciences, Indigenous ways of knowing and being and the arts.*





# From Local to Global: *rare* to Me with Yann & Adriano

By **Laura Klein**, *rare* Gosling Engagement Coordinator



Adriano Pacciarelli (left) and Yann Valour (right). Photo by L. Klein

Volunteers are a special part of *rare*, and welcoming volunteers from other countries to immerse themselves on *rare's* land is just one way how the work of *rare* crosses borders and builds bridges, connecting youth in their joint care and concern for the environment. In August and September, *rare* welcomed two international youth volunteers to spend their time in Canada helping on the reserve.

Yann Valour traveled to Canada from the north of France through the Red Leaf program. Visiting Canada for the first time, he soon found himself alongside others removing invasive species and tending to the Springbank Food Bank Gardens. He also assisted the research department with Road Impact Surveys. Yann said he expected his outdoor work mainly to be simple menial tasks such as cutting grass and other related unskilled work. He was pleasantly surprised that the experience at *rare* exceeded his expectations by far, giving him a full range of relevant and meaningful skilled work experience together with other youth, ranging from trail monitoring to butterfly catching. "The land-based work really gave me a clear picture of what makes *rare* so special a place. I look forward to share with my friends at home how *rare* protects the environment through engaging people to care about nature", Yann shared when asked how he would describe his experience at *rare*.

Adriano Pacciarelli arrived from Rome, excited to have a new experience and to learn new skills at *rare*. Immediately upon arrival, Adriano began assisting in the Food Bank Gardens. He spent most of his time growing pesticide-free produce for the Cambridge Self-Help Food Bank over

the next four weeks, enjoying the harvest as much as the ongoing need to weed and tend to the growing crops. Adriano instantly became a part of the *rare* team by tending to ten goats that were part of an experimental invasive species management technique at Springbank Farm.

"When I get home, I plan to eat more vegetables, now that I have seen how they grow and the labour of love that goes into making them thrive. There are many people in our communities who don't have the privilege to have access to fresh foods we often take for granted", Adriano said inspired by his time spent harvesting produce for those in need. Adriano greatly enjoyed all the positivity he experienced from the staff and other volunteers while helping in the Springbank Gardens. Originally, Adriano meant to only spend three days a week at *rare*, but he soon started coming in on additional days, even on the weekends. On his last day at *rare*, Adriano shared that he thinks "it is a duty to protect nature" and the reason it is important to protect land is because "habitats must be protected and respected." What an experience that will stick with our guests for a lifetime, and lead to many stories to be shared upon their return to their home countries.



To send in a donation, fill in form and cut here.



**Yes! I want to support conservation, research & education at *rare*!**

I've enclosed my donation in the amount of:

- ☐ \$200
- ☐ \$100
- ☐ \$50
- ☐ \$25
- ☐ Other \$ \_\_\_\_\_.

- ☐ I'll help *rare* plan ahead by joining the **Bedrock Club** with a monthly donation of: \$ \_\_\_\_\_ to be automatically withdrawn on the 15th of every month. (void cheque attached)



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## Payment Information

Please send cheques payable to: ***rare* Charitable Research Reserve**  
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Please charge my credit card: ☐ VISA ☐ M/C ☐ A/E

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**Christine Lefebvre (Karonhya Katste)**, Haudenosaunee Knowledge Guardian  
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**John Straube**, Associate Professor, Civil & Environmental Engineering, University of Waterloo  
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**Chris Gosselin**, retired  
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**Peter Krause**, *rare* Board of Directors  
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