

*Junction Creek
Stewardship Committee*



*Comité d'intendance
du ruisseau Junction*

ANNUAL REPORT 2021



“Creating hope through environmental restoration”

MESSAGE FROM THE 2021 OFFICERS

We have had another unique year of re-structuring and at-home activities to continue to promote Junction Creek and empower local action for environmental issues that are affecting it. The use and value of the Junction Creek Waterway Park grew during the pandemic. As COVID-19 and its related restrictions set in, residents looked for new places to explore in their neighbourhoods and physically distanced 'walking meetings' became more popular along the serene corridors of Junction Creek.

Although community events were still on hold, the stewardship committee was able to offer local knowledge and connect the community through collaborative programs and outreach. Several new programs were developed to adapt to social distancing and better connect with the community, including the Tiny Traces Along Junction Creek project in partnership with Early Childhood Creative Collaborations and our new Empowering Youth for Junction Creek program. Outdoor educational activities and videos replaced in-class programs and provided fun learning opportunities for children and families.

Restoration and stewardship activities allowed the community to connect, play and celebrate outside. With the help of community supporters and volunteers, we surpassed our planting target to align with local climate action goals. Research continued with our long-term stream monitoring programs and the addition of three new water sampling sites to build upon our growing scientific database. It was heartwarming to see the return of wildlife to the newly daylighted section of Junction Creek in Garson as efforts are made to re-naturalize the area.

In 2021, Water Walker Tasha Beeds directed a Ceremonial Nibi Nikwejiwong (Junction Creek) Water Walk, in which we were honored to be invited to facilitate. The authentic connections and shared teaching brought attention to the value of Nibi (water) and were deeply healing, meaningful, restorative and an instrumental step moving forward on the path of reconciliation. Chi-miigwech!

We would like to thank our supporters, partners, allies and the dedicated work from the staff and volunteers at Junction Creek over the past year. We look forward to in-person meetings, festivals, and continued community programs in the coming year.

Sincerely,

Rachelle Niemela, President

Paula Worton, Secretary

Erin Calder, Treasurer

Officers, Junction Creek Stewardship Committee



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2021 AT A GLANCE TOGETHER WE MAKE A DIFFERENCE



2,004

Brook Trout re-introduced



536

Kg of garbage removed



1,754

trees, shrubs and plants



3,619

participants



2,054

volunteer hours



Junction Creek Van, generously donated by Laking Toyota and Design de Plume in 2019

JUNCTION CREEK STEWARDSHIP COMMITTEE

RESEARCH • RESTORATION • EDUCATION • CONNECTING THE COMMUNITY



The Junction Creek Stewardship Committee is a not-for-profit organization focused on the restoration of a large urban waterway in Greater Sudbury, known as Junction Creek. The Committee was formed by a group of concerned citizens in 1999, incorporated in 2008, and became a Canadian registered charity in 2019.

Our Vision: "A healthy and revitalized Junction Creek ecosystem"

Our Mission

"To lead the way for improving and maintaining a healthy Junction Creek watershed by:

- conducting research and monitoring programs to create understanding and inform sound decisions
- organizing restoration activities to recover and protect the watershed
- providing educational opportunities to share knowledge and promote its ecological, economic, and health benefits
- connecting the community with Junction Creek to empower long-term stewardship"



Board of Directors 2021

A dedicated group who volunteer their time to oversee the activities of the JCSC. Their mentoring, guidance, and support are gratefully recognized by staff.

Rachelle Niemela – President
IT Manager, Cambrian College (retired)

Paula Worton – Secretary
Registered Nurse (retired)

Erin Calder – Treasurer
Environmental Consultant, Klohn Crippen Berger

Allison Merla – Director
Advisor, Environmental, Vale Canada Ltd.

Brigitte Angster-Beckett – Director
Technologist, Biology Department Laurentian University (retired)

Franco Mariotti – Director
Staff Scientist, Science North (retired)

Gerard Courtin – Director
Environmental Biologist and Forensic Botanist, Laurentian University (semi-retired)

Jorge Virchez – Director
Professor School of Northern Community Studies (Geography)

Kayla Stewart – Director
Admin Coordinator, Greater City Concrete Works

Margaret Hoar – Director
Professor of Michener/Laurentian Radiation Therapy (retired)

Peter Beckett – Director
Wetland Ecologist, Biology Department Laurentian University

Staff 2021

Miranda Virtanen
Executive Director

Brandon Holden
Project Coordinator

Lili Paradi
Environmental Outreach & Science Communication Intern (2020-2021)

Alexander Drake
Ecological Restoration Intern (2021-2022)

Lindsay Potts
Wildlife Naturalist & Outreach Assistant

Sydney Gilmour
*Environmental Biologist
Stream Research & Restoration Assistant*

Devin Kennis-Nadon
Environmental Biologist (Summer Position)

Anja Hansen
Wildlife Naturalist (Summer Position)

Elijah Jeffery
Environmental Biologist (Summer Position)

Shanelle Bisailon
Wildlife Naturalist (Summer Position)

Sidney Smith
Summer Position through Scales Nature Park

Volunteer Placements

Anja Hansen, Fatima Shirazi
Cambrian College Placement Students

Sarah Cooney
Fleming College Placement Students

Katia Quesnel
École secondaire du Sacré-Coeur Co-op Student

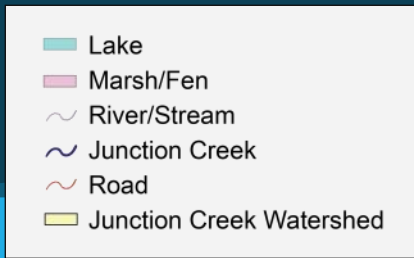


Junction Creek Watershed

The Urban Waterway of Greater Sudbury

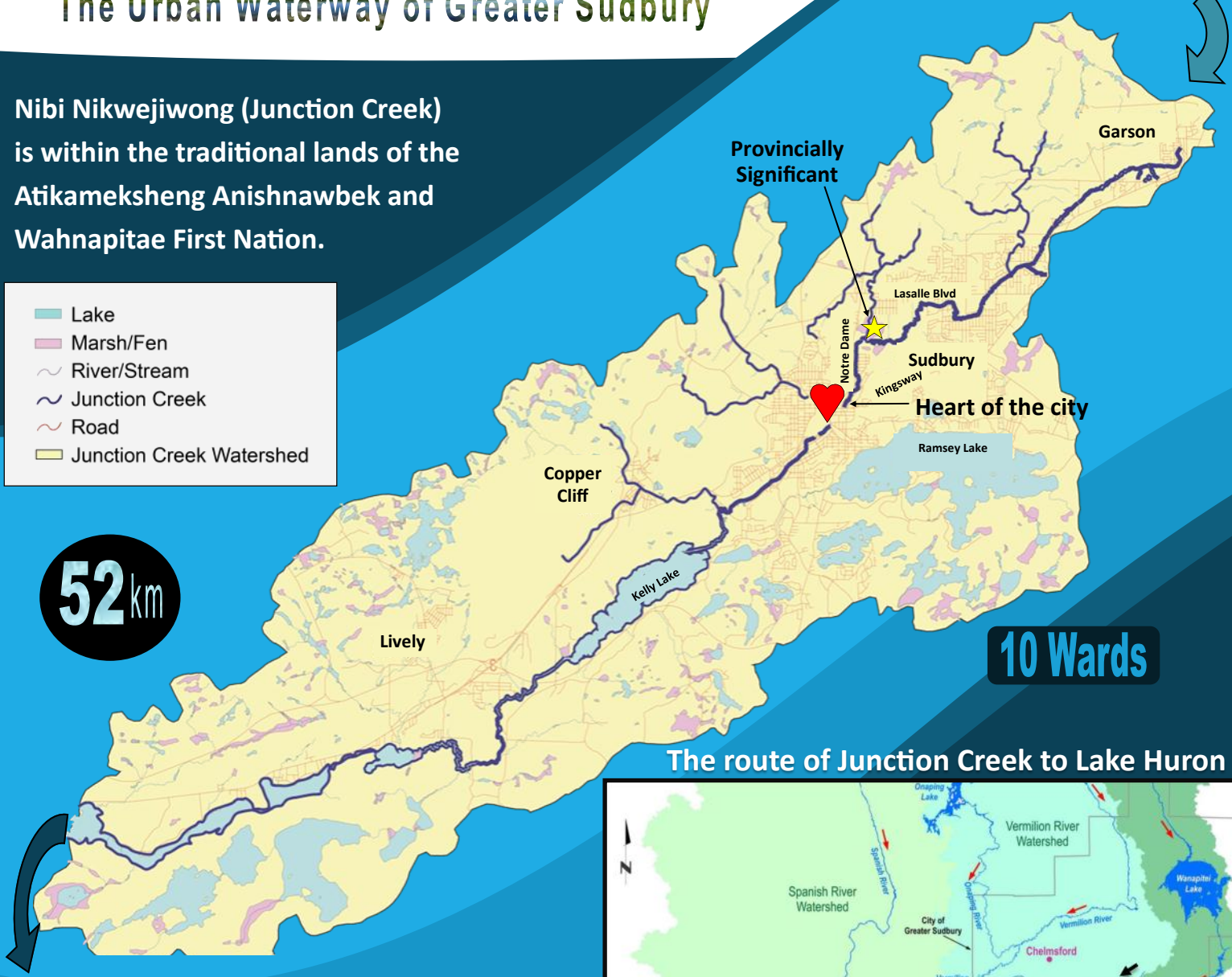
Nibi Nikwejiwong (Junction Creek) is within the traditional lands of the Atikameksheng Anishnawbek and Wahnapiatae First Nation.

Headwater:
Garson Mine



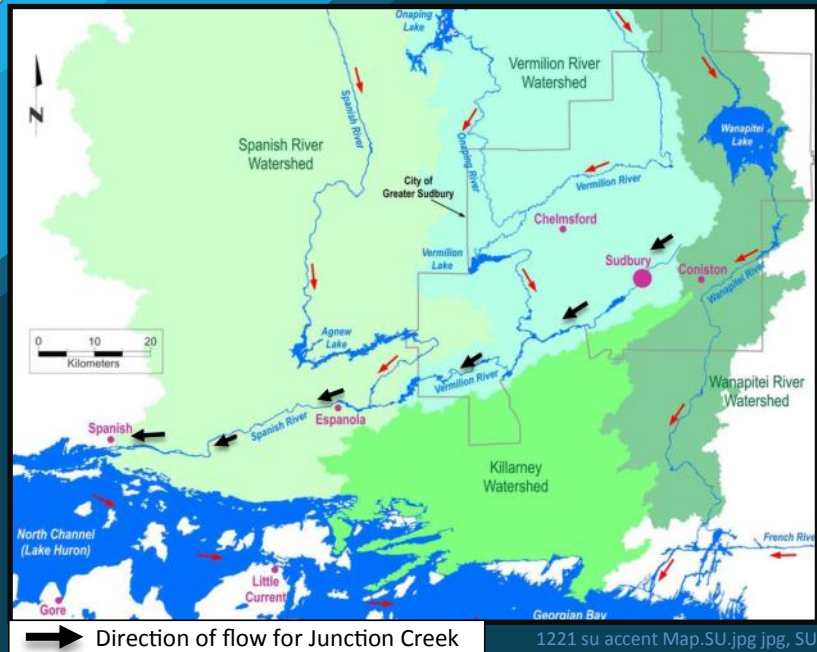
52 km

10 Wards



Drains into the Vermilion River, then Spanish River, into the North Channel and Lake Huron

The route of Junction Creek to Lake Huron



A Valued Natural Asset



The Junction Creek watershed is a valued natural asset in Greater Sudbury. It serves as a wildlife corridor and accessible green space in an urban centre where past development has compromised its health. The watershed plays an important role in flood management, carbon storage, offers recreational and research opportunities, has historical and cultural significance, and supports diverse natural heritage. Restoring the watershed to a thriving ecosystem results in mutual benefits towards the health and resilience of the community and economic growth.

Flood Management and Drinking Water

The Junction Creek watershed is over 32,900 hectares in size with five tributaries, connections to numerous lakes, rivers, and municipal drinking water sources. The watershed provides natural flood management through storage and filtration of excess water by wetlands and vegetation. The trees and shrubs along the creek stabilize the shorelines to prevent erosion and degradation of water quality. The creek is also utilized by storm water systems and sewage treatment facilities. Always remember to use creek friendly practices to help reduce pollutants from entering our waterways.

Recreation and Eco-tourism

The creek is central in the community and features the Junction Creek Waterway Park trail along most of its urban reaches. Over 60,000 Sudburians live within a 10-minute walking distance from this trail system. The Junction Creek parkway allows residents and visitors to explore the trails, connect with the ecosystems surrounding the creek, and enjoy the natural beauty of Greater Sudbury while attaining healthier lifestyles.



Habitat and Wildlife

The Junction Creek watershed is home to diverse vegetation communities and wetlands, creating habitat for a range of critters including 'at-risk' species. The Ponderosa Wetland is a natural gem in the centre of the city and due to its high value for both human utility and ecosystem function, has been classified in 2018 as a Provincially Significant Wetland following a stringent provincial evaluation we conducted in 2016-17.

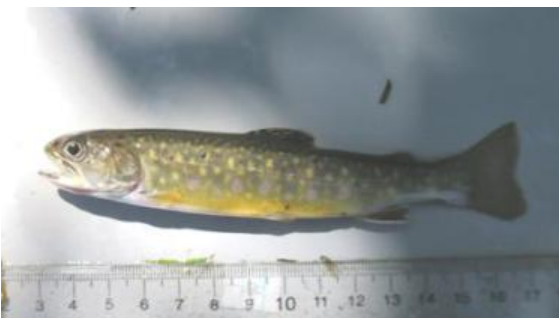


RESEARCH & MONITORING

HIGHLIGHTS 2021

- Brook trout angling and habitat surveys
- Addition of 3 more water sampling sites
- Surveyed 6 benthic macroinvertebrate sites
- Stream Health At-a-Glance Report
- Supported community science programs

We continue to maintain strong research programs and long-term monitoring initiatives to gain a better understanding of the Junction Creek watershed and for guidance in restoration and management. We collaborate with local experts and stakeholders to develop projects, collect data and produce reports on the current state of various ecological components of the upper reaches of Junction Creek.



RESEARCH IN JUNCTION CREEK

'Stream indicators' are features of the aquatic environment that reveal whether the stream is healthy and when it is changing. The JCSC strives to maintain monitoring programs to collect data on stream indicators and conditions, including:

- **WATER CHEMISTRY:** Conduct monthly water sampling at 10 sites in Junction Creek between Garson and Kelly Lake, and implement ongoing water monitoring via data loggers when able to.
- **AQUATIC LIFE (BENTHOS):** Collect annual benthic samples using Canadian Aquatic Biomonitoring Network protocols to determine the aquatic bugs (macroinvertebrates) present in the creek.
- **FISH COMMUNITIES:** Conduct fish community studies every 3 to 5 years to assess species presence and distribution in the upper reaches of Junction Creek.
- **AMPHIBIANS:** Conduct annual acoustic surveys of frog and toad calls during the spring to help track long-term trends in species diversity and climate.



RESEARCH IN JUNCTION CREEK 2021

In 2021, the Junction Creek field crew continued to collect scientific data to enhance long-term stream monitoring programs, gain a better understanding about brook trout distribution and habitat quality, and provided assistance to other research projects being carried out in the Junction Creek watershed.



FISH STUDY IN MINNOW LAKE

Staff assisted the Minnow Lake Restoration Group with a 10 day passive fish community assessment in Minnow Lake. The study had two components: 1) compare present day to 1998 fish communities to assess changes in the lake's overall health, and 2) collect fish samples of sportfish for laboratory analysis of trace contaminant levels. The study results revealed a reduction in fish species and health, suggesting a degradation in the lake water quality. The scientific data collected can be used for fact-based lake management and restoration efforts.

BROOK TROUT HABITAT ASSESSMENTS & SURVEYS

The Junction Creek field crew conducted further research on brook trout in-stream habitat assessments to fill knowledge gaps and guide future restoration and conservation efforts. Assessments were completed to quantify habitat quality and allow site comparisons for stream reaches in Junction Creek. Water depth, temperature and velocity were recorded in the field at various sites to derive a single standardized suitability value based on literature defined methods for computing a habitat suitability index (HSI) value. Maps were created of the HSI values to quantify usable in-stream habitat for Brook Trout and understand potentially limiting factors to habitat use in different areas. See page 10 for a map of the preliminary results.



BROOK TROUT SURVEYS

The Junction Creek field crew conducted angling surveys to gain a better understanding about brook trout distribution and re-introduction efforts in Junction Creek. Stock fish can be identified by fin clippings which are unique to the year of release. Based on the fin clippings (or absence of) and size of the trout captured, the surveys can indicate Brook Trout survival and recruitment.

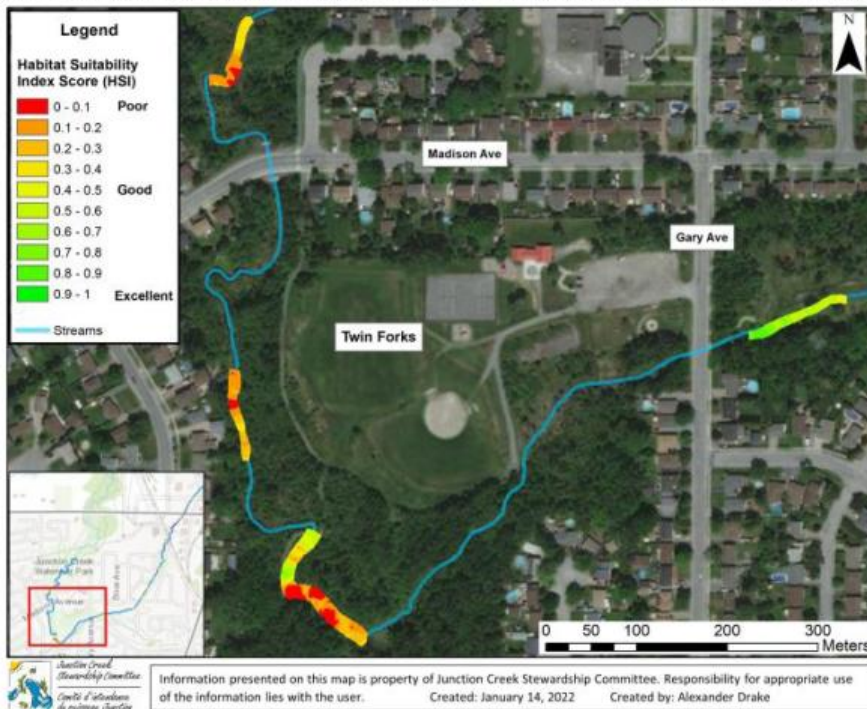
BROOK TROUT IN JUNCTION CREEK

The Junction Creek field crew conducts stream habitat and angling surveys to gain a better understanding about Brook Trout distribution and re-introduction efforts in Junction Creek. Stock fish can be identified to the year of release by a fin clipping identification system, this helping to identify age and are used as an indicator of survival. In 2021, the Brook Trout research efforts received support from Pioneer Construction Ltd/ Fisher Wavy and Freshwater Futures.

Habitat assessment and angling surveys reveal the need for stream restoration and conservation of Junction Creek's cold-water fish habitat and natural heritage features.



Brook Trout Multivariable Habitat Suitability Index Analysis for Areas Around Twin Forks, Greater Sudbury ON



An Indicator of Stream Health

Brook Trout were historically present in Junction Creek before the deterioration of habitat caused by Sudbury's logging and mining practices.

In 2000, after decades of environmental restoration, sections of Junction Creek became healthy enough to support the re-introduction of Brook Trout.

Good water quality and suitable water temperatures are essential for Brook Trout survival. Areas of **cold water refuge** created by fresh, cool ground water are **critical habitat features** that need to be identified and protected.

BROOK TROUT TRENDS



INCREASE IN SIGHTINGS

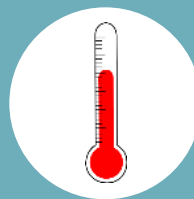


RANGE OF AGE CLASSES



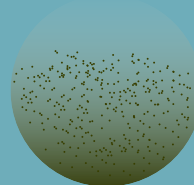
INCREASE IN DISTRIBUTION

CONSERVATION THREATS PROTECTION OF CRITICAL HABITAT



STREAM TEMPERATURE

Warm water temperatures from runoff and stormwater, lack of vegetative shade along the shoreline, and impairment of cold ground water entering the stream.



SUSPENDED SEDIMENT

Suspended sediment in the water from stormwater and runoff, erosion, and the removal of natural in-stream infrastructures.

STREAM HEALTH AT-A-GLANCE REPORT

OVERALL STREAM HEALTH SCORE

Current Status **Fair** Trend **Improving**

FISH COMMUNITY

Current Status **Fair**

Trend **Improving**

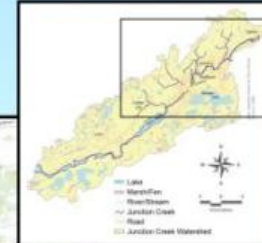
Fish Species Present

Pollution Intolerant

- Blacknose shiner
- Brook trout
- Logperch
- Brassy minnow
- Common shiner
- Finescale dace
- Iowa darter
- Northern redbelly dace
- Pearl dace
- Pumpkinseed
- Yellow perch

Pollution Tolerant

- Brook stickleback
- Brown bullhead
- Central mudminnow
- Creek chub
- Fathead minnow
- Golden shiner
- White sucker



MAP LEGEND

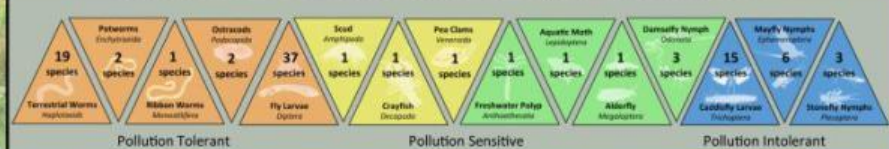
- Ward Boundary
- Watershed Boundary
- Benthic sampling site
- Water sampling site

STREAM HEALTH INDEX

- Excellent
- Good
- Fair
- Poor
- Insufficient Data

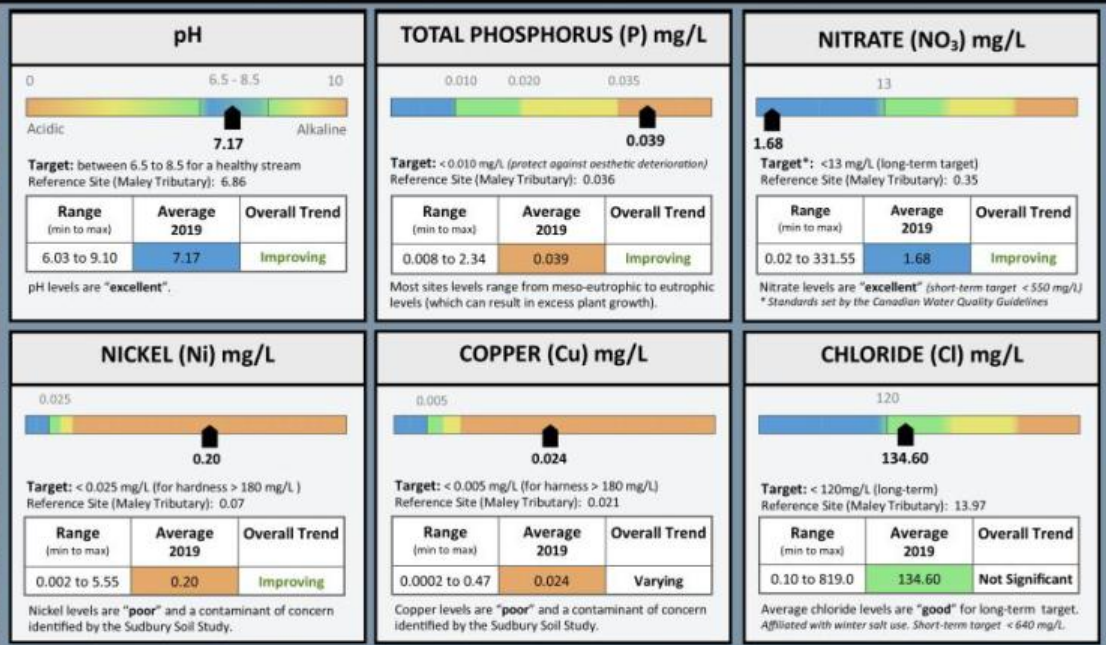
Map of the upper reaches of Junction Creek depicting results from the 2019 fish community assessment, water sampling and benthic macroinvertebrate sampling studies conducted by the Junction Creek Stewardship Committee.

"AQUATIC BUGS" BENTHIC MACROINVERTEBRATES - INDICATOR SPECIES



WATER QUALITY ANALYSIS 2004-2019 (10 Sampling Sites)

The water quality targets used are the provincial standards set out by the Provincial Water Quality Objectives (PWQO).



MAJOR IMPAIRMENTS & FOCUS FOR RESTORATION EFFORTS



Data collected by Junction Creek Stewardship Committee research projects with the assistance from multiple funding agencies, and collaborative partners, including but not limited to: City of Greater Sudbury, Conservation Sudbury, Vale Canada Ltd., Laurentian University, Cambrian College, Cooperative Freshwater Ecology Unit & Vale Living with Lakes Centre, WWF-Canada, and the STREAM Project.

Junction Creek Stewardship Committee
 info@junctioncreek.com
 (705) 525-8736
 junctioncreek.com

ENVIRONMENTAL RESTORATION

HIGHLIGHTS 2021

- 536 kg of garbage removed from the creek and surrounding green spaces
- 450 native trees & shrubs planted
- 904 seedlings planted
- 400 pollinator plants planted

We develop data-based restoration and conservation programs, identifying areas that require improvement and prioritizing efforts to recover and protect the shoreline habitat and biodiversity of Junction Creek. We use ecological approaches to restore impaired habitat and invite citizens to participate in creek projects.

RESTORING LIFE ALONG THE SHORE

The land surrounding waterways is known as the **'riparian zone'** and plays an important role in water quality, flood management, carbon storage and overall stream health. Past logging, mining and ongoing development have impaired much of Junction Creek's riparian zone, resulting in stream bank erosion, lost plant communities, and contaminated runoff.

The following restoration activities are conducted and monitored in the upper reaches of Junction Creek to restore riparian habitat, build climate resilience and increase biodiversity:

- **NATIVE VEGETATION:** Plant a variety of native trees, shrubs, wildflowers and other plants.
- **SHORELINE STABILIZATION:** Use bio-engineering techniques, such as live stakes and fascines, to strengthen eroding stream banks.
- **INVASIVE SPECIES:** Survey for invasive species and remove targeted invasive plants.
- **BROOK TROUT RE-INTRODUCTION:** Release stock Brook Trout to re-establish a stable population.
- **GARBAGE CLEAN-UPS:** Coordinate and empower community creek clean-ups.



RIPARIAN PLANTING ALONG JUNCTION CREEK 2021

NATIVE TREES AND SHRUBS

In 2021, the Junction Creek Stewardship Committee aimed to increase planting efforts by 4-fold to align with carbon sequestration goals in the City of Greater Sudbury's *Community Energy and Emissions Plan* for reaching Net-Zero by 2050. With support from the community and project grants, we were able to exceed this goal and increase planting efforts by 10-fold!

During the fall, the stewardship committee coordinated multiple tree planting activities to restore targeted riparian habitat along Junction Creek. Local ecologist and Board Member Dr. Peter Beckett provided expert guidance and training to the **165** community volunteers that came out to help. A total of **450 trees and shrubs** (1- to 3-gal in size) were planted; 300 in Garson during a public tree planting project funded by TD Friends of the Environment Foundation, and 150 along the Fisher Wavy Trail with the financial and volunteer support of Pioneer Construction/ Fisher Wavy. In addition, **900 seedlings** were planted courtesy of Health Tweaks and 4 seedlings were grown and planted by our placement student, Katia Quesnel.



Photo Credit: Carly Jussila

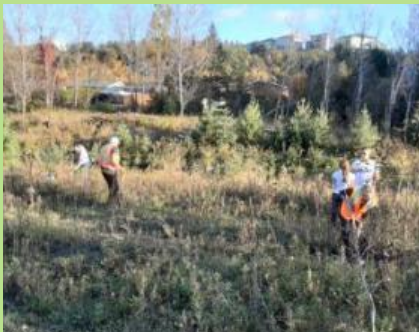
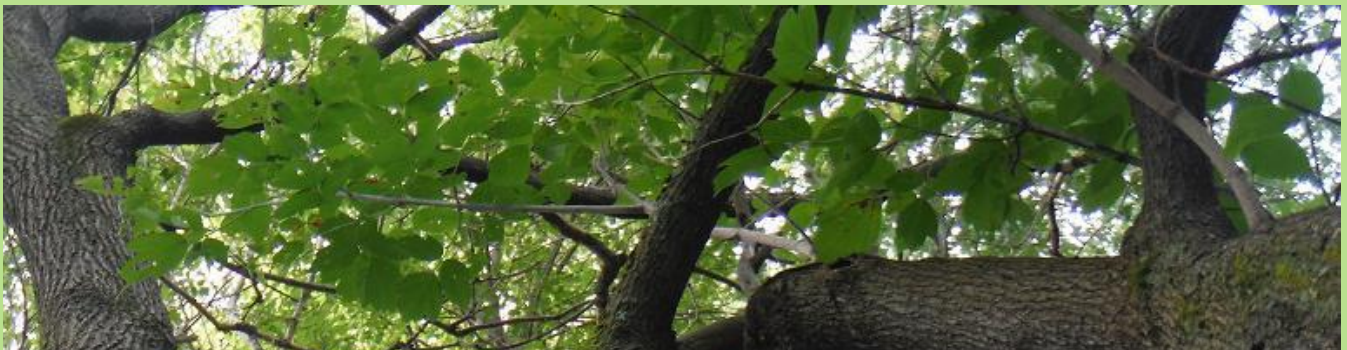


Photo Credit: Carly Jussila

A special thank you to all the amazing volunteers and supporters that contributed towards the environmental restoration efforts and to Southview Greenhouse Growers for their ongoing in-kind support. Together we are making a positive impact on the local watershed and community!



RESTORING JUNCTION CREEK 2021 Cont'd

POLLINATOR PLANTS

Pollinator plants, such as milkweeds, provide an important food source for various pollinator species including Monarch butterflies. The Junction Creek team helped to plant over 400 pollinator plants in 2021 to build a pollinator garden at Rotary Park and to enhance the daylighted section of Junction Creek.



The Lougheed Foundation generously funded the creation of the pollinator garden in Rotary Park. The JCSC and Rotary Club volunteers planted 170 swamp milkweed, common milkweed, and butterfly bush. The project was complemented with an eye-catching Monarch mural painted by Monique Legault to beautify the area and raise awareness.



INVASIVE SPECIES MONITORING & MANAGEMENT

We continue to monitor and work with community groups to manage and increase awareness about invasive species in the Junction Creek watershed. In 2021, selected sections along Junction Creek were surveyed for invasive terrestrial plants in which four species were observed: Himalayan Balsam, Japanese Knotweed, Goutweed, and Virginia Creeper.

Despite the inability to have public stewardship activities in the summer, the stewardship committee was able to **remove 1,800 m² of a patch of invasive Himalayan Balsam** in Garson.



Himalayan Balsam

BROOK TROUT RELEASE

Although we had to cancel the Annual Junction Creek Festival, efforts to re-introduce Brook Trout continued. In mid-April, the Ministry of Natural Resources and Forestry released **2,004 juvenile Brook Trout** into Junction Creek. The stock fish were transferred from the holding tank on the truck into the creek using a large hose, with the exception of a photo-op. Thank you to Jennifer Smith for managing to capture a photo while releasing a bucket of trout into the creek.



EDUCATION & OUTREACH

HIGHLIGHTS 2021

- **3,004** reached
- **23** school programs
- **3** outreach displays
- Guest speaker for **7** presentations
- **3 NEW educational videos**
- Addition of Water Rangers kits

We continue to develop and deliver interactive bilingual educational programs, displays, presentations, and resources to schools and the community at large. Our programs provide opportunities to share knowledge and promote the ecological, economic, and health benefits of the Junction Creek watershed.



In 2021, due to social distancing and COVID-19 restrictions, we adapted our programs to provide virtual presentations and educational videos that could be enjoyed from the comfort and safety of viewers' homes. As restrictions began to lift, we provided outdoor programs to local schools.

We delivered **10 presentations** and outreach displays, **23 educational programs**, **3 educational videos**, and **1 outreach video**. Our outreach and educational programs reached over **3,004 participants and viewers**.



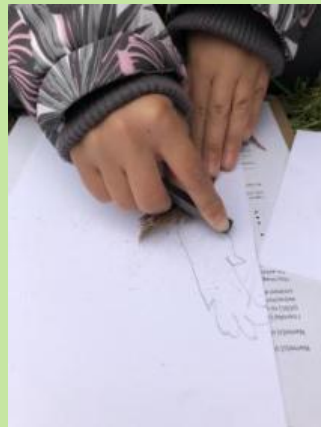
TINY TRACES ALONG JUNCTION CREEK 2021-2022

The *Tiny Traces Along Junction Creek* project is in partnership with Early Childhood Creative Collaborations (ECCCo) and funded by the Community Foundations of Canada. The project was designed to respond to challenges facing families, communities, childcares and schools during the pandemic, such as increased isolation and mental health challenges. The aim of the project is to support ecological educational opportunities offered through encounters with nature. These experiences with nature bring us closer to understanding the world we live in and the complexity of our interconnectedness.

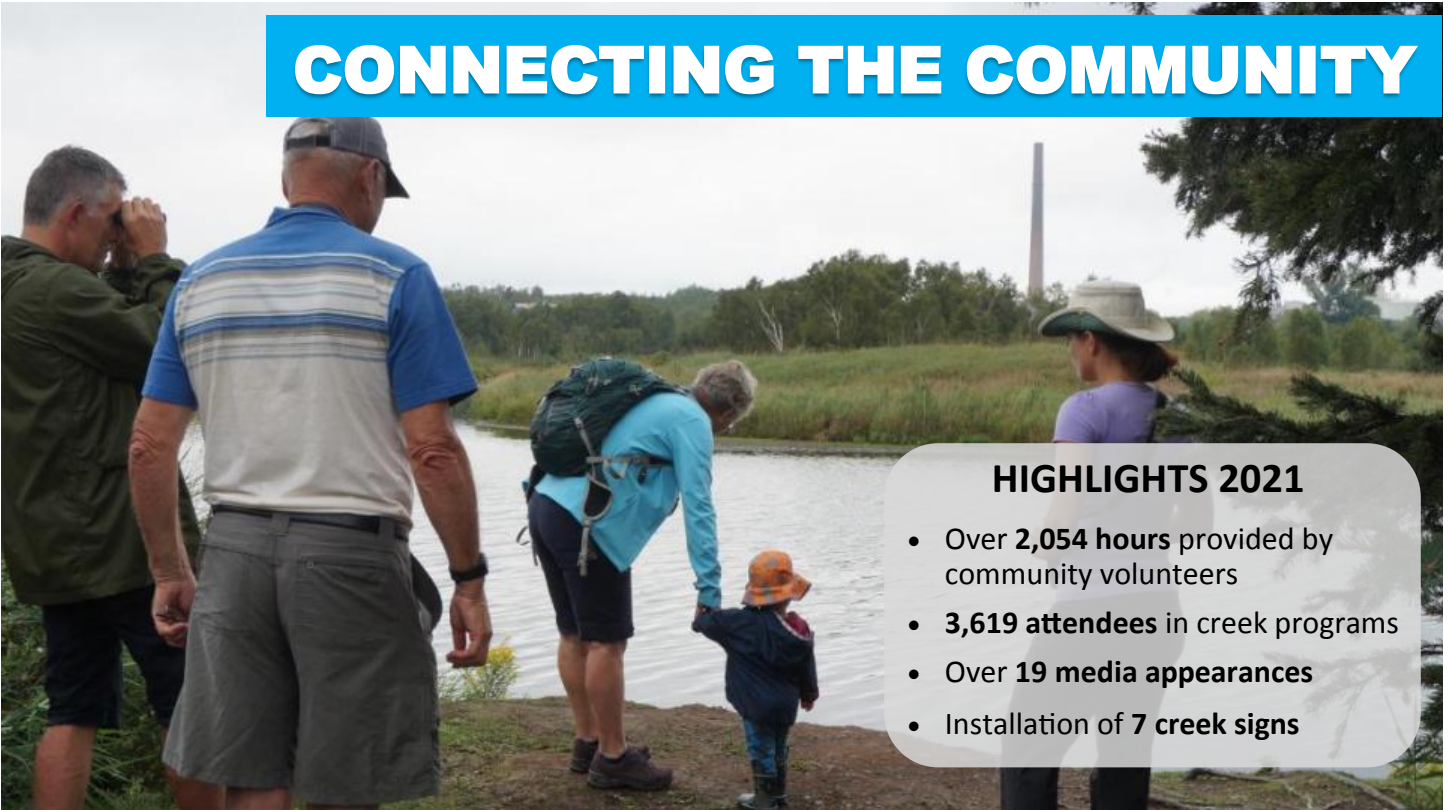
Project activities are being led by ECCCo and environmental artist Sophie Anne Edwards, the lead author of *The Art of Land-Based Early Learning* books. As part of the project, Creativity Boxes filled with art materials and inquiry guides will be installed along the creek near participating childcare centres and schools. A variety of seasonal activities are offered to keep participants engaged and learning from the ecosystems of Junction Creek and surrounding green spaces.



This is an opportunity for children and families to follow their curiosities about the creek ecosystem, to learn about and care for the ecology and to engage with art materials to document what they are learning and thinking.



CONNECTING THE COMMUNITY



HIGHLIGHTS 2021

- Over **2,054 hours** provided by community volunteers
- **3,619 attendees** in creek programs
- Over **19 media appearances**
- Installation of **7 creek signs**

We connect the community with Junction Creek to develop an increased appreciation for the value of Junction Creek, and promote long-term stewardship. Our programs enhance the Junction Creek Waterway Park trail, encourage public participation in activities and events promoting the creek, and foster relationships within the community. Community stewardship is a great way to collectively contribute towards the long-term restoration of the watershed while participating in fun outdoor activities.



In 2021, we facilitated community stewardship activities, partnered with local organizations, and offer resources and guidance for empowering positive change in the community and to promote watershed stewardship.

YELLOW FISH ROAD

Stormwater runoff carries pollutants from paved surfaces into local waterways. The stewardship committee offers resources and guidance to support local groups in carrying out Trout Unlimited Canada's Yellow Fish Road project to raise awareness about the impacts of stormwater pollutants on local water quality.

In 2021, the JCSC assisted the Nepahwin Lake Watershed Stewardship Group and Lo-Ellen Park Secondary School to deliver the Yellow Fish Road program in the Lo-Ellen neighbourhood. In total, **18 student volunteers** distributed **250 informative flyers** to local homes and painted yellow fish and "RAIN ONLY" stencils above **73 stormwater drains**.

JUNCTION CREEK COMMUNITY PROGRAMS 2021



Junction Creek
Stewardship Committee

Comité d'intendance
du ruisseau Junction

EMPOWERING YOUTH FOR JUNCTION CREEK 2021 PROGRAM AT-A-GLANCE

The Junction Creek Stewardship Committee coordinated a free, month-long program in July 2021 to provide accessible nature-based programming to youth aged 13-18 in N'Swakamok/ Greater Sudbury.



25 youth participants



90 species
reported
in BioBlitz



23 kg of garbage removed



Free Conservation Kits for each youth,
thanks to local supporters!



33 sessions with 19 experts & Knowledge Holders

Field Journal Creation

Virtual Book Talk with the Greater Sudbury Library

Hope in a changing landscape with Franco Mariotti

Virtual Lattes & Learning Tea Time with Bonn

Inside, outside: who am I in nature? Reflection Workshop

Creek Clean-Up

Virtual Plastic-Free & Zero-Waste Trivia Night

Turtle Talk with Miranda from JCSC

Mini BioBlitz

Virtual Youth Invasive vs. Native Species Conference
with Derissa from Invasive Species Centre, Jenny from
Northern Wildflowers

Book Borrowing at the Greater Sudbury Library

Sustainable Craft with the Greater Sudbury Library

"Story of Plastic" Documentary Screening

Wildflower and Native Species Hike with Jenny from
Northern Wildflowers

Learning with the Water Rangers Water Testing Kits

Research and Monitoring: What Makes a Healthy
Aquatic Ecosystem with Brandon from JCSC and Adam
from Microplastics Project

Studying Bats in Ontario with Kaleigh from Willis Bat Lab

Water Sampling and Bug Search Program with Brandon
from JCSC

Backyard Case Study

Lake Laurentian Hike with Maggie and Jane from
Fridays for Future Sudbury

Gotta catch 'em all: Insect hike with Sydney from JCSC

Art for Junction Creek with Will Morin

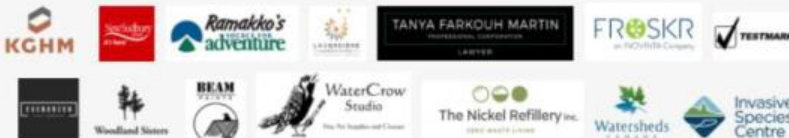
Can I eat this forest? with Carrie from Sudbury Shared
Harvest

Alien invasion! Invasive species hike with Alex from
JCSC

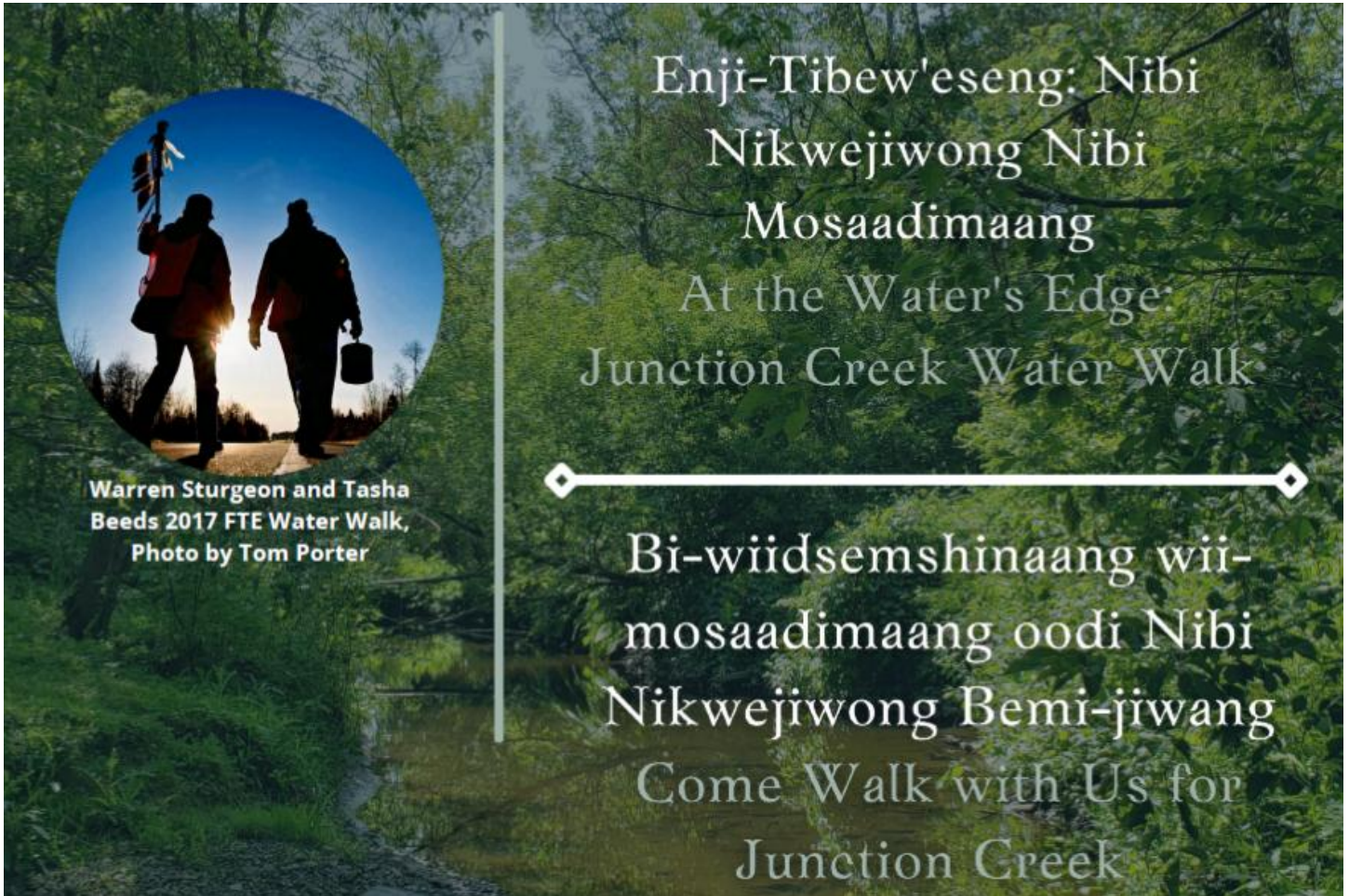
Mushroom Palooza with Brittany from Ugly Barn Farms

Photography and Journaling

Art and Connection to Water (Nibi) with Page



WORKING TOGETHER 2021



Warren Sturgeon and Tasha Beeds 2017 FTE Water Walk,
Photo by Tom Porter

Nêhiyaw (Plains Cree) Mide-Kwe Water Walker Tasha Beeds led an Anishinaabe Ceremonial Water Walk, Enji-Tibew'eseng Nibi Nikwejiwong, on June 16th to 20th from the headwaters in Garson to where the waterway joins into Lake Huron in Spanish. The 135km long Water Walk helped to raise consciousness of Nibi (water) as a living entity that carries Life, not only in the form of animals, birds, insects, and fish but for us as humans.

As the Water Walkers carry Nibi Nikwejiwong, the movement recognizes ancestral Anishinaabe uses of the creek as a water highway, the significance of the waterway for the Greater Sudbury area, and the inherent connection to the Great Lakes. The Water is a unifying force that brings people together because what happens to the Water happens to us all. The movement also generates the opportunity for active truth and reconciliation not just from non-Indigenous people to Indigenous people, but for all people to reconcile our negligence and improve our relationships with the Waters, Lands, and all of Creation.

The Junction Creek Stewardship Committee is truly thankful to be invited by Tasha Beeds to work as allies for the Water Walk. The connections and experiences have helped us grow as an organization and individually, gaining a better understanding as we move forward on a path of truth and reconciliation. Miigwetch!



SUPPORTING COMMUNITY PROGRAMS 2021

The Junction Creek Stewardship Committee welcomes the opportunity to offer local knowledge and collaborate with community partners. We strive to foster relationships, share resources and offer support for projects that align with our initiatives. In addition to ongoing community partnerships and memberships, in 2021 we provided insight, local knowledge, scientific data, resources and/or opportunities for the following groups and projects:

Assisted with tree planting events: Place Hurtubise Tenants Association, Ward 8 CAN, and Coalition for a Liveable Sudbury; and the Sudbury Finnish Language School

Cambrian College Ecological Restoration Program - Student Placements

City of Greater Sudbury - Community Energy and Emissions Plan (CEEP)

City of Greater Sudbury – Regreening daylighted section of Junction Creek in Garson

City of Greater Sudbury - Junction Creek Subwatershed Study and Stormwater Master Plan

Conservation Sudbury - community rain gauge data collection

Early Childhood Creative Collaborations - Tiny Traces Along Junction Creek project

Enji-Tibew'eseng Nibi Nikwejiwong, ceremonial Water Walk led by nêhiyaw (Plains Cree) Mide-Kwe Water Walker Tasha Beeds

Fleming College - Student Placement

Fight Climate Change - CCIP Research Project

Great Lakes Marsh Monitoring Program

Greater Sudbury Public Library - Waste Reduction Week, explorer kit

Green Gathering Meetings

iNaturalist Citizen Science, Greater Sudbury Biodiversity Project

Minnow Lake Restoration Group - Minnow Lake fish study

Natural Heritage Information Centre

Ontario Nature - Protected Places StoryMap

Rotary Club - beaver guards on trees, pollinator garden

St. Charles Lake Watershed Stewardship Association - handouts for Float-a-thon invasive species removal

Sudbury Rainbow Crime Stoppers - Litter Dumping Campaign

The Land Between - Turtle Road Researchers

Trout's Unlimited - Yellow Fish Road Program

Water Rangers

Watersheds Canada programs

WWF-Canada - Watershed Reports

We also provided expert advice and recommendations to support a green recovery and the conservation and protection of watersheds, critical habitat features, and species at risk.

JUNCTION CREEK FUNDRAISERS 2021 & ONGOING

SPONSOR-A-YOUTH

Empowering Youth for Junction Creek



Raised \$2,600!

Thank you to our community sponsors!

KGHM

Morguard (New Sudbury Centre)

Ramakko's Source for Adventure

Tanya Farkouh Martin Professional Corporation

FROSKR/ Boudreau-Espley-Pitre Corporation

Laverdiere Associates Psychological Services

Testmark Laboratories

M'tig miinwaa Jibik : Tree and Roots 2021-2022

The JCSC is pleased to be working with the community to install an engaging educational piece along Junction Creek in Garson. The piece will feature an art installation by local Indigenous artist Will Morin and will include trilingual interpretive signage. The aim of the project is to encourage environmental stewardship and share Indigenous teachings in the community. To date, \$3,100 have been raised!



A special thank you to the generous sponsors!

Garson Lions Club

Sudbury Credit Union

The Federation of the Sisters of St. Joseph of Canada

Sisters of St. Joseph of Sault Ste. Marie

Raised \$1,203 to help support the JCSC's environmental stewardship programs and empower community action to restore Junction Creek!

GIVING TUESDAY
#GivingTuesdayCA



JUNCTION CREEK REUSABLE BAGS FUNDRAISER

For a healthier waterway and community! Get yours today at:

- The Nickel Refillery (227 Regent St.)
- Junction Creek Stewardship Committee (B4-30 Ste Anne Rd.)

100% natural cotton



Processed AZO-free with no hazardous chemicals



THANK YOU!

\$10 each
or
5 for \$40



Bag Sponsors:



Peter Beckett Ph.D
Associate Professor
Department of
Biology
Laurentian University

Jorge Virchez Ph.D
Full Professor
School of Northern
Community Studies
(Geography)

Robert Jussila
1124997 Ontario Inc.
Dr. Austin Andrews
Dentist

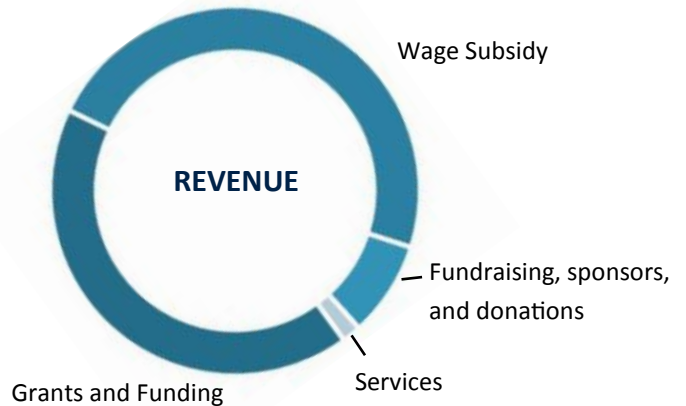
wood.

JCSC 2021 Financial Highlights

We are able to minimize our expenses by sharing resources and receiving in-kind support generously provided by local organizations and academic institutions.

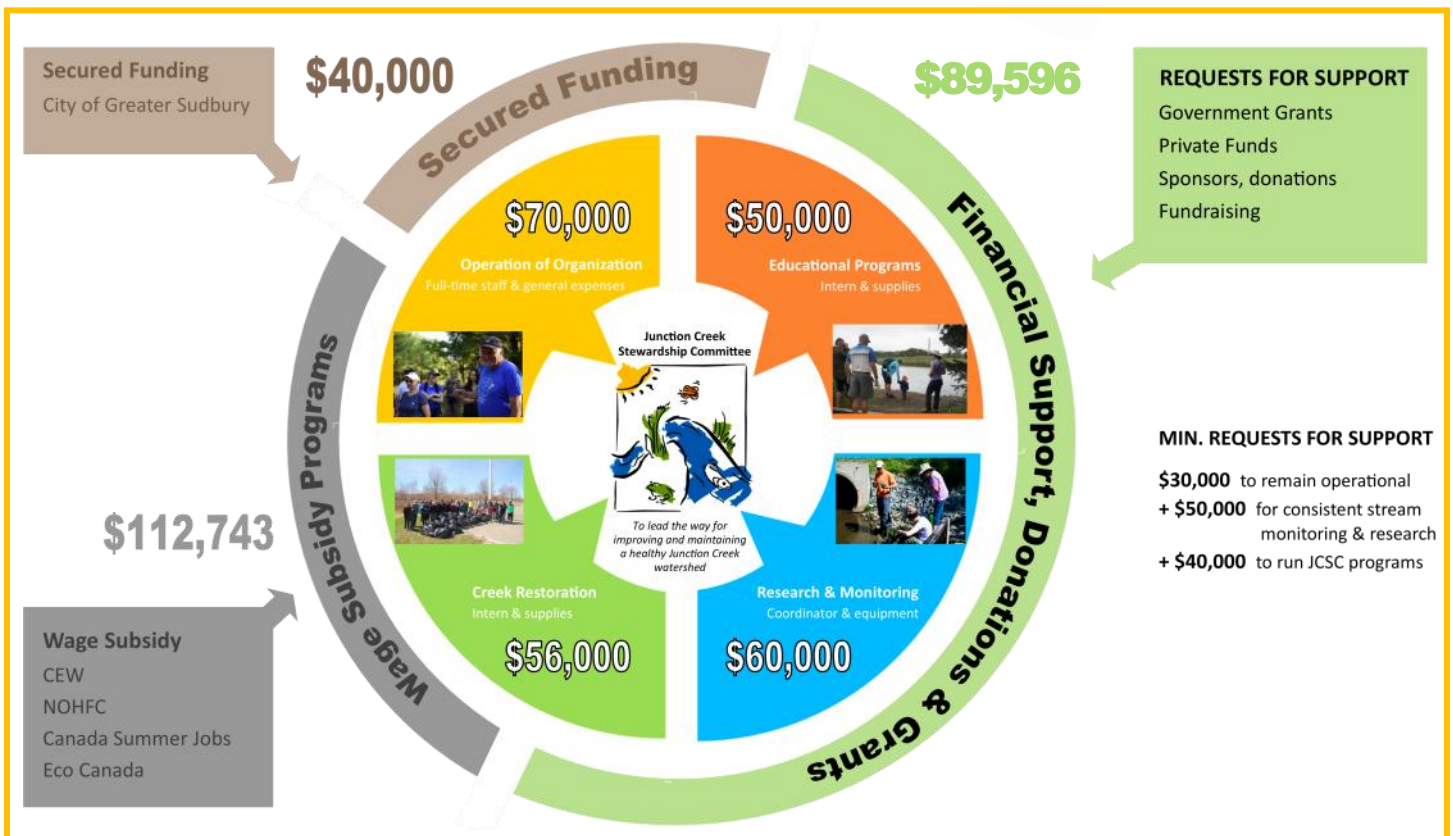
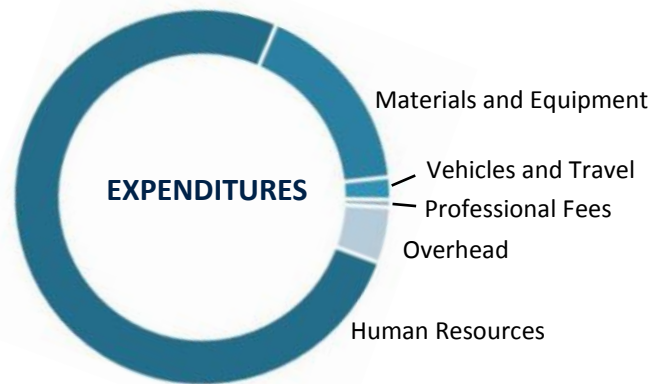
Total Revenue

Category	Revenue
Grants and Funding	\$195,965
Wage Subsidy	\$112,743
Fundraising, sponsors and donations	\$19,729
Services and other	\$3,902
Total Project Value	\$242,339



Expense Breakdown

Category	Expenses
Human Resources	\$199,750
Materials and Equipment	\$48,084
Vehicles and Travel	\$5,109
Professional Fees	\$3,224
Overhead	\$10,544
Total Project Expenditures	\$266,711



THANK YOU FOR THE SUPPORT!

\$25,000 +

Government of Canada Government of Ontario EcoCanada City of Greater Sudbury
Community Foundations of Canada

\$10,000

Vale Canada Ltd.

\$5,000 +

TD Friends of the Environment Foundation
Lougheed Foundation

\$1,000 +

Pioneer Construction
KGHM
The Federation of the Sisters of St. Joseph of Canada
Garson Lions Club
Sudbury Credit Union

\$500 +

Freshwater Future
Golder Associates
Luminato Festival
(on behalf of Design de Plume)
New Sudbury Centre

\$200 +

Conseil Scolaire Catholique Nouvelon
Ramakko's Source for Adventure
Tanya Farkouh Martin Professional Corporation

We welcome donations of all sizes from across the community!

JUNCTION CREEK 2021 PROJECT PARTNERS & SUPPORTERS

Beam Paints	KGHM International Ltd.	Southview Greenhouse Growers
Bike Sudbury	Laking Toyota	Spacecraft Brewery
Canadian Wildlife Federation	Laurentian University	St. Francis Catholic Elementary School
Cambrian College	Laverdiere Associates Psychological Services	St. Peter's United Church
City of Greater Sudbury	Lo-Ellen Park Secondary School	STREAM Project
City of Lakes Family Health Team	Lougheeds Foundation	Sudbury Christian Academy
CISV Sudbury	Luminato Festival	Sudbury Credit Union
Coalition for a Liveable Sudbury	Mariotti Visuals	Sudbury Horticultural Society
Collège Boréal	Minnow Lake Restoration Group	Sudbury Shared Harvest
Conseil Scolaire Catholique Nouvelon	N.A.R. Environmental Consultants	Sudbury Naturalist Club
Conservation Sudbury	Nepahwin Lake Watershed Stewardship Group	Sudbury Rainbow Crime Stoppers
Cooperative Freshwater Ecology Unit	New Sudbury Centre (Morguard)	Tanya Farkouh Martin Professional Corp.
Design de Plume	Nickel District Conservation Foundation	Tasha Beeds
Duplicators	Northern Wildflowers	Testmark Laboratories Ltd.
Early Childhood Creative Collaborations	Ontario's Invading Species	TD Friends of the Environment Foundation
Earth Care Sudbury	OMNRF	The Land Between
EverGreen Soap Co.	Ontario Nature	The Nickel Refillery
Federation of Sisters of St. Joseph of Canada	Pinehill Lumber	Ugly Barn Farms
Fisher Wavy/ Pioneer Construction	Plastic-Free Greater Sudbury	Vale Canada Ltd.
Freshwater Futures	Rainbow Routes Association	Vale Living with Lakes Centre
Fridays for Future Sudbury	Ramakko's Source for Adventure	VETAC
Friends of Roxborough Greenbelt	RBC Bank on Lasalle Blvd.	Ward 8 Community Action Network
FROSKR/ Boudreau-Espley-Pitre Corporation	Real Canadian Superstore	Water Crow Studio
Garson Lions Club	reThink Green	Watersheds Canada
Greater Sudbury Watershed Alliance	Rotary Club	Wildlife Preservation Canada
Greater Sudbury Public Library	Scales Nature Park	Will Morin
Golder Associates	Science North	Willis Bat Lab
Indigenize.ca	SER Laurentian	Woodland Sisters
Junction Creek Members	Sisters of St. Joseph of Sault Ste. Marie	<i>And countless community volunteers!</i>

HOW TO BE CREEK-FRIENDLY

Everyone lives in a watershed and has an impact on local water quality. By preventing pollutants from entering Junction Creek, you are helping to create a healthier waterway, ecosystem and community.

Please consider these creek-friendly practices

- Prevent pollutants from entering storm drains
- Avoid using pesticides and chemical fertilizers
- Choose non-toxic household products
- Pick up after your pets
- Fix leaks that drip from your vehicle
- Reduce your single-use plastic and waste
- Do not litter and secure loose garbage from blowing away
- When safe to do so, pick up litter as you are walking, jogging and/or bicycling


BE PART OF JUNCTION CREEK'S RESTORATION STORY

- Like and follow us on social media @JunctionCreek
- Join the Junction Creek mailing list to receive quarterly newsletters (*you can unsubscribe at any time*)
- Become a Junction Creek Member and stay informed about upcoming events, opportunities and announcements
- Attend Junction Creek events
- Volunteer 2hrs at a clean-up, tree planting or other stewardship activity
- Donate or become a sponsor
Charitable Number: 801685611RR0001
- Share skills and knowledge as an expert or advisor
- Join the JCSC's Board of Directors




*Junction Creek
Stewardship Committee*

*Comité d'intendance
du ruisseau Junction*

 (705) 525-8736

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Sudbury, ON P3C 5E1

<https://junctioncreek.com>

@JunctionCreek 