



City of Richmond

Report to Committee

To: Parks, Recreation and Cultural Services
Committee

Date: March 9, 2022

From: Todd Gross
Director, Parks Services

File: 03-1085-01/2022-Vol
01

Re: 2022 Environmental Enhancement Grant Program

Staff Recommendation

1. That the 2022 Environmental Enhancement Grants be awarded for the total recommended amount of \$27,600 as identified in Attachment 1 of the staff report titled "2022 Environmental Enhancement Grant Program" dated March 9, 2022, from the Director, Parks Services;
2. That the amendments to the City Grant Program Policy 3712 as identified in Attachment 5 of the staff report titled "2022 Environmental Enhancement Grant Program" dated March 9, 2022, from the Director, Parks Services be approved and that \$2,500 be awarded to the Sharing Farm Society; and
3. That the grant funds be disbursed accordingly.

Todd Gross
Director, Parks Services
(604-247-4942)

Att. 5

REPORT CONCURRENCE		
ROUTED TO:	CONCURRENCE	CONCURRENCE OF GENERAL MANAGER
Finance Department	<input checked="" type="checkbox"/>	
Sustainability & District Energy	<input checked="" type="checkbox"/>	
Law	<input checked="" type="checkbox"/>	
SENIOR STAFF REPORT REVIEW	INITIALS: 	APPROVED BY CAO

Staff Report

Origin

The Environmental Enhancement Grant Program was established to assist non-profit community organizations in the delivery of projects and programs that primarily benefit Richmond residents, and is built upon the City's existing plans and strategies, such as the Ecological Network Management Strategy, in order to promote community stewardship in Richmond.

This report outlines the inaugural 2022 Environmental Enhancement Grant Program process, and provides grant recommendations, as well as recommendations for the administration of the future of the Environmental Enhancement Grant Program.

This report supports Council's Strategic Plan 2018-2022 Strategy #2 A Sustainable and Environmentally Conscious City:

2.2 Policies and practices support Richmond's sustainability goals.

2.4 Increase opportunities that encourage daily access to nature and open spaces and that allow the community to make more sustainable choices.

This report supports Council's Strategic Plan 2018-2022 Strategy #4 An Active and Thriving Richmond:

4.1 Robust, affordable, and accessible sport, recreation, wellness and social programs for people of all ages and abilities.

This report supports Council's Strategic Plan 2018-2022 Strategy #8 An Engaged and Informed Community:

8.1 Increased opportunities for public engagement.

Background

Notice Given and Applications Received

In December 2021, announcements were posted on the City's website, social media channels, bus shelters, and in a press release, advising the public that applications were being accepted for the 2022 EEG Program until January 26, 2022. A link to the City's website was provided for further information and for access to the City's online application system. City Area Coordinators and community partners were also directly notified that the online application system was open for submissions. A total of 14 applications were received with an aggregate request of \$32,600.

A table outlining the 2022 grant requests and recommended grant allocations is provided in Attachment 1. Summary sheets of each grant application, are provided in Attachment 2, along with staff recommendations. As the contents of these summary sheets are taken verbatim from the applicants' submissions, they replicate any errors or omissions made by the applicants.

Analysis

Application Review Process

The Parks, Recreation and Community Events Grant Review Committee reviewed the applications against a 25 scoring criteria (Attachment 3) that were developed based on the existing 2022 EEG Guidelines (Attachment 4), as well as the existing 2022 City Grant Program. Each application was evaluated on dichotomous (yes/no) questions regarding grant eligibility, and 25 Likert scale statements (9-point range from Strongly Disagree to Strongly Agree) regarding the applicant, its grant proposal's impact on the environment, community impact and engagement, budget, and the quality of the application itself.

2022 Grant Recommendations

Twelve out of 14 applicants are recommended for the EEG full funding based on existing City Grant Program Policy.

One applicant, The Sharing Farm Society is recommended for the EEG funding should council approve the amendments to the City Grant Program Policy 3712. As the total amount requested does not exceed the 2022 EEG budget, providing full assistance to applicants is possible.

One applicant is not recommended for an EEG as outlined below:

1. Richmond Jewish Day School is not recommended for a grant as funds requested are for the improvement of private property, which is restricted to or primarily serves the membership of the organization, and therefore is not eligible for grant funding.

Recommended 2022 Grant Policy Amendments

1. The EEG Program was well received by the community. During the outreach process, staff received feedback from individuals not associated and unable to partner with non-profit organizations wanting to engage in smaller scale environmental enhancement projects such as litter clean-up's, pollinator planting, citizen science projects, and other forms of "grass roots" projects. As the EEG is restricted to non-profit organizations (as outlined in the City Grant Program Policy 3712), staff recommend amending the Policy (Attachment 5) to allow for individuals to access EEG funding which would not exceed \$500 in order to support neighbourhood based projects. Non-profit organizations will remain eligible for the full \$2,500 grant funding to develop and execute larger scale projects.

Moving forward it is recommended that \$5,000 of funding be allocated towards 10 individual recipients who would receive a maximum \$500 award.

2. Many non-profit organizations who have applied and received funding for other City Grants, have shown interest in also applying for the EEG, however are ineligible due to existing policy which stipulates that non-profit organizations can only access one City Grant per year. Due to the unique grant requirements (e.g., environmentally oriented projects) of the EEGs, staff recommend amending the City Grant Program Policy 3712 to allow non-profit

organizations who have applied, and received other City Grant funding to also receive funding from the EEG Program.

Allowing non-profits access to multiple grants is not without precedence. Historically, the City's Neighbourhood Celebration Grants have granted funding to non-profit organizations who have also received other City Grant funding. If the policy is not amended, one of the recommended grant recipients (The Sharing Farm) will be denied EEG funding for 2022.

Financial Impact

The 2022 EEG budget of \$35,000 was approved as part of the City's 2022 Operating Budget. A total of \$27,600 in allocations is being recommended to be approved for the 2022 EEG program. Should Council approve the amendments to the City Grant Program Policy 3712 to increase access to grant funding, then \$2,500 is recommended to be awarded to the Sharing Farm Society. Any remaining balance will be transferred to the Grant Provision account for future distribution.

Conclusion

The EEG Program will contribute significantly to the quality of life in Richmond by supporting community organizations who seek to enhance Richmond's environment. The projects proposed serve to improve Richmond's parks and open spaces and directly connect residents to the importance of creating and maintaining an environmentally healthy City.

Staff recommend that the City Grant Program Policy 3712 be amended to increase access to grant funding. Staff also recommend that the 2022 EEGs be allocated as indicated in Attachment 1 for the benefit of Richmond residents.



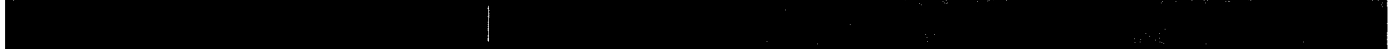
Magnus Sinclair
Coordinator - Leisure Services
(604-247-4453)

- Att. 1: 2022 Environmental Enhancement Grants – Outline of Requests and Recommended Allocations
- 2: Grant Application Summary for 2022 Environmental Enhancement Grant Program
- 3: 2022 Environmental Enhancement Grant – Application-Scoring Criteria
- 4: City of Richmond Environmental Enhancement Grant Guidelines
- 5: Proposed Amendment to City Grant Program Policy 3712 – redline version

2022 Environmental Enhancement Grants – Outline of Requests and Recommended Allocations				
Applicant Name	2022 Request	2022 Recom.	Application Summary	See Att. 2 Page No.
Richmond Garden Club	\$1,050	\$1,050	Removal of invasive species including English Ivy, Lamium, Himalayan blackberry and Laurel. Maintenance of the 30 garden beds in the surrounding areas and increase in native species planting to replace removed material. Creation of a pollinator habitat.	1-2
Ian Lai (in conjunction with Richmond Garden Club)	\$2,500	\$2,500	Reintroduction of four bee hives into Paulik Park in order to engage in scheduled public education programs which will include honey extraction, hive maintenance and food system education.	3-5
Richmond Society for Community Living	\$2,500	\$2,500	Pollinator planting in order to provide habitat for native pollinators and birds. Habitat creation including building birdhouses, mason bee houses and humming bird feeders which will be maintained on a regular basis. Ongoing public engagement through proximity to public space.	6-8
Richmond Jewish Day School	\$2,500	\$0	Educational program that links teaching about the environmental benefits of trees and the subsequent planting of trees on school property	9-11
Green Teams of Canada	\$2,500	\$2,500	Engage Richmond residents in hands-on environmental education activities, and improve Terra Nova Rural Park through the removal of Himalayan Blackberry in order to increase biodiversity and promote responsible usage of the area.	12-16
Garden City Conservation Society	\$2,500	\$2,500	Training volunteer citizen scientists to identify sphagnum moss and systematically map sphagnum moss on the Garden City Lands. Transplanting existing sphagnum moss from areas where soil will be spread to facilitate bog restoration and	17-19

			the establishment of a sphagnum propagation system.	
Terra Nova Nature School (in conjunction with Thompson Community Association)	\$2,500	\$2,500	Creation of edible landscape in the immediate area surrounding the Edwardian Cottage in Terra Nova Rural Park. This includes the removal of invasive species like English Ivy and Himalayan Blackberry and planting of indigenous plant species. Caring for existing plantings while introducing native species.	20-21
Richmond Secondary Green Team (in conjunction with Garden City Conservation Society)	\$2,500	\$2,500	Creation of an outdoor classroom which connects to existing on-site gardens in order to create a large Outdoor Learning Environment. Installation of a "Pocket Forest" to provide shade, education, mitigate climate events, and bring together the community	22-24
Birds Canada	\$2,300	\$2,300	Host a series of four or more workshops for community members, introducing them to the diversity of wild birds found in Richmond's natural areas. Provide tools to allow specific actions that people take home to monitor and steward birds.	28-30
Be The Change Earth Alliance	\$1,750	\$1,750	Creation of a community rain garden on a boulevard that provides tangible mental and physical health and environmental benefits and a habitat and shoreline clean-up to directly reduce threats to freshwater by diverting garbage and cigarette butts. The cleanup will provide students with a place based learning opportunity	31-36
Rabbitats Rescue Society	\$2,500	\$2,500	Advocacy and educational campaign focusing on the unwanted and abandoned domestic rabbits populating Richmond. The campaign will be anchored by the 2023 Chinese New Year and the Year of the Rabbit.	37-39
Coastal Partners in Conservation Society	\$2,500	\$2,500	Provide information on bat populations and offering opportunities for the public to engage in bat conservation. Installation of bat boxes by staff in areas identified as potential bat habitat	40-42

Green Seeds Music Society	\$2,500	\$2,500	Provide two community engagement events focused on wildlife education through pop-up outdoor events for the public which will involve teachers, artists who want to ensure a healthy environment for all.	43-45
Totals	\$30,100	\$27,600		
2022 EEG Grants Budget		\$35,000		
Remaining Funds		\$7,400		



The following recommendation is subject to Councils approval of amendments to the City Grant Program Policy 3712

The Sharing Farm Society	\$2,500	\$2,500	As a working farm, The Sharing Farm's harvests are intimately linked to the health of pollinator populations. The project would sow a quarter-acre of pollinator forage, build on existing volunteer-led flower growing program, host 2 native pollinator identification workshops to encourage Citizens Scientists.	25-27
Totals	\$32,600	\$30,100		
2022 EEG Grants Budget		\$35,000		
Remaining Funds		\$4,900		

Grant Application Summary for 2022 Environmental Enhancement Grant Program

Richmond Garden Club

Project Title: Environmental Enhancements Paulik Park

Applicant

Richmond Garden Club

Society Number

S-0015589

Grant Request: \$1,050

Description of Project (1000 words or less)

In 2008 Richmond Garden Club adopted the stewardship of the 30 plus garden beds in Paulik Park. Initially we removed invasive and aggressive weeds, restored proper drainage and soil quality. We continue to increase soil nutrients year round and have now introduced pollinator plants, native plantings, fruit trees and 18 bird houses provided by the City of Richmond. We also take care of a small canopy of conifers and deciduous trees planted originally by the Paulik family in the 1930s.

We need help on removing invasive species (ivy, lamium, Himalayan blackberry, laurel) in the forest areas, and in the 30 plus garden beds and surrounding area. We would also like to add more native plantings to replace the invasive species removed. A final project would involve creating a pollinator habitat from natural materials found in the park.

Project Start

May 2022

Project Location

Paulik Park

Community engagement and outreach

Social media, website, posters in the park, Richmond News

Primary populations and specific environmental areas of Richmond the project will benefit

Open to all citizens of Richmond who are new to gardening, want to learn how to gardening and love gardening. We will also set up the event to attract children to encourage them to get into taking care of our environment

How will the effects of the project be measured (short term and long term)

We will record all invasive plants removed and will continue to maintain the areas to keep on top of invasive species returning. We will create a monthly chart of what is growing in the park for local schools to attract young people to learning about our environment.

Partnering with other organizations – If so, who?

No

Description of expenses

Japanese weeders, pruning shears, gloves, safety glasses, native and pollinator plants

List of supplies and materials and projected cost

6 folding quadrat frames for sphagnum survey; 3-100 gallon plastic stock tanks for sphagnum propagation, 12 floating seedling trays for s.p.; hoses and hardware for sphagnum propagation system

\$950

List of marketing expenses and projected cost

\$100

List of other expenses and projected cost

None

Any other sources of funding

no

Ian Lai

Project Title: The Homecoming – Honeybees return to Paulik Park

Applicant

Ian Lai (in conjunction with the Richmond Garden Club)

Society Number

S 0054738

Grant Request: \$2,500

Description of Project (1000 words or less)

Urban Bounty (UB) would like to reintroduce four beehives into Paulik park after they were vandalized and relocated last year. The bee yard at Paulik Park was a showcase for visitors and provided multiple opportunities to for public education. Park visitors, community gardeners, local school children, and Richmond Garden Club members all benefitted from having beehives at Paulik park.

UB will provide scheduled hive inspections and community members are able to visit, ask questions(socially distanced), and even participate in honey extractions and hive duties. UB will also provide a formal workshop series three times in the season. This will include one in the spring, one in the summer, and one in the fall. Public engagement only daylight the importance of bees and puts an end to the myths and misinformation around bees.

Bees are critical to our food system. Every third bite of food requires some form of pollinator and as bee populations continue to decline, we need to provide much-needed education and create diverse natural year-round forage and biodiverse spaces in Richmond parks spaces.

UB will be amplifying and adding value to extensive tiered natural and managed area which includes:

- a) Paulik Park Native Planting Extension,
- b) community gardens, and
- c) landscaped areas by the Richmond Garden Club.

UB will work in close collaboration with the Richmond Parks grounds crews, the Richmond Garden Club, and community gardeners to prepare a cohesive pollination plan that extends the availability of forage for late and early season food sources. This strategy is exactly what a model of sustainable urban agriculture looks like.

Bees are the front lines in the battle against climate change. “Evidence has shown that global warming is one of the key drivers of the decline of bees globally. Some wild bees and other pollinators have only a small temperature window where they can live. So when temperatures rise, they are forced to head to colder climates to seek refuge, reducing the overall territory they

can inhabit, and reducing population sizes. This can have ripple effects on the surrounding ecosystem.

For example, when specialized insect species go extinct, these populations are often replaced by generalist species, which can survive in a wide range of temperatures and conditions. But as generalist species take specialists' place, the whole system becomes far more susceptible to sudden changes because of their inability to perform specialized functions.

The result can be an ecological cascade that threatens the integrity of the whole ecosystem. As climate change accelerates, more ecosystems will be placed under this kind of pressure, and it's expected that populations will continue to decline."

(<https://www.globalcitizen.org/en/content/importance-of-bees-biodiversity/>)

UB feels that it is in a strong position to:

- 1: Manage and enhance Richmond's ecological assets,
- 2: Strengthen City infrastructure,
- 3: Create, connect and protect diverse and healthy spaces, and
- 4: Engage through stewardship and collaboration

Project Start

March 1, 2022 - February 28, 2023

Project Location

Paulik Park

Community engagement and outreach

Via newsletters, social media, and through the City of Richmond's "City Page" in the local newspaper.

Organizations capacity and experience in hosting similar events

UB has a strong history of event planning and a proven track record based on events such as Chefs to the Field, Farm Fest, Harvest Fest, Earth Day Celebrations, World Food Day events, multiple Neighbourhood Celebration events, and annual Seedy Saturday events. Ian Lai the Executive Director is an experienced beekeeper, educator and event planner.

Primary populations and specific environmental areas of Richmond the project will benefit

Our project covers all age groups across multiple demographic bands. There is no charge to any of our events and is intended to promote and invite diversity within the community. We will be collaborating with an Artist in Residence as well and programming will cover a general audience. We will also provide virtual access to those that are homebound.

How will the effects of the project be measured (short term and long term)

UB will provide feedback forms and ask participants, formal and informal to submit feedback. The numbers of visitors and touchpoints will be tracked. Meeting minutes will be recorded. Beehive tracking sheets will also be available for those interested.

Partnering with other organizations – If so, who?

Yes – Richmond Garden Club

What amount is requested from the EEG program

\$2,500

Description of expenses

Four bee hives

List of supplies and materials and projected cost

Equipment, hardware and live bee packages

\$5000

List of marketing expenses and projected cost

UB will provide our own marketing and cross-promotional material

List of other expenses and projected cost

Honoraria, honey jars, extraction supplies, staff time

Any other sources of funding

Yes – another approved funder.

Richmond Society for Community Living

Project Title: Youth Employment Pollinator Garden Project

Applicant

Richmond Society for Community Living – Annabel Melnyk

Society Number

S-17001

Grant Request: \$2,500

Description of Project (1000 words or less)

We are fortunate that we have access to some of the garden tools we will need through our HandyCrew program, as well as having an existing arrangement with the City of Richmond that has enabled us to borrow necessary tools when working on projects in City Parks.

We became aware of this grant close to the application deadline so are still in the process of completing a garden plan, and reaching out to collaborate with the City Park's staff, but our vision for the garden includes:

Planting Pollinator Attracting Flowers

Under the guidance of our Garden Designer, we will be planting annual and perennial bedding plants, such as Cardinal Flower, Bee Balm, Black eyed Susan, Purple Verbena, Native Asters, Native Goldenrods, Joe Pyes and Milkweeds along with flowering shrubs such as Buddlia, Potentilla, Hibiscus, Caryopteris in a central garden bed. Established plants will be planted at the beginning of the project in July. Along the margins of the pond we will do ground preparation to sow Organic Bee and Hummingbird Garden seed blends at the end of August, reserving some of the seeds for re-seeding in the spring as required.

Habitat Creation

We are planning to create both bee and bird habitats. We will be doing some ground prep in the garden and along the margins of the pond as many as 70% of native bee species nest below ground. In addition we will be installing mason bee houses that have viewing ports so people can observe bees in action, as well as providing bird houses.

The habitat will be enhanced by providing squirrel proof bird feeders, and humming bird feeders which will be maintained on a regular basis by participants in our Avenues Day Program adjoining the Park.

Flowering hedges in the garden will help to protect the garden from wind and create warm micro-climates.

Education

We will be conducting educational modules with Day Program participants, inviting them to participate in seed starting and hosting garden tours. We also plan to install interpretive signage in the garden to provide ongoing education for park users.

Project Start

July/August 2022

Project Location

Agriculture Park in Richmond BC

Community engagement and outreach

Our working group will be comprised of the participants of our summer IMPACT Youth Employment Program for youth with developmental disabilities, aged 15 to 19 years, program staff and volunteers.

In addition we will be using this as an opportunity to create educational opportunities in our Day programs and participants will be involved with starting seeds to be grown in our community gardens at Terra Nova in preparation for transplant to the Pollinator Garden in early July.

We will be promoting the project within RSCL in our newsletter and social media, as well as with our community partners and in the community adjoining the Park. As part of the project we plan to install interpretive signage to provide ongoing education about the importance of pollinators to our environment.

Organizations capacity and experience in hosting similar events

RSCL has been involved in community projects for much of our 40 year history. This past year, our Work Experience participants volunteered at the Richmond nature park and were involved with projects such as building their hummingbird garden, fencing, pruning and trail maintenance. During the fall they volunteered at the Sharing Garden helping with the harvest and preparing produce for shipping to food banks.

This particular project will be directly supported by our HandyCrew Landscaping team, IMPACT Youth Employment counsellors and the participants of IMPACT and the Avenues Day program. We will also benefit from the support of our Manager of Community Development who will assist with promotion of the project.

Primary populations and specific environmental areas of Richmond the project will benefit

We will be supporting students with developmental disabilities to develop work readiness skills as well as providing a horticulture related work experience. Individuals attending our Day Programs will also be invited to participate and contribute by getting involved with seed starting and growing along with providing ongoing support to the garden by tending and maintaining the bird feeders throughout the year. The project would add a welcome new dimension to the park and community both visually, and environmentally.

How will the effects of the project be measured (short term and long term)

We would deem the project a success if it educates our participants about environmental concerns, provides useful work experience, enhances the park environmentally and improves the experience of park users. In the long term we intend to provide continuing support to the park and actively use it to provide environmental education to individuals in RSCL programs and the community at large.

Partnering with other organizations – If so, who?

Yes – Handy Crew Co-Operative – City of Richmond

Description of expenses

Plants

- Bedding plants
- Pollinator seed blends
- Flowering Shrubs

Habitat

- Bee Viewing home
- Mason Bee Hotel
- Mason Bee Mud

Feeders

- Humming Bird Feeders
- Squirrel proof bird feeders

Supplies

- Interpretive signage
- Hardware for installing feeders and bee homes.

Honorarium

List of supplies and materials and projected cost

Plants • Bedding Plants – 8 varieties x 15 each • Seeds – Bee Pollinator, Hummingbird Mix, Butterfly blend • Flowering shrubs x 5 (Buddlia, Potentella, Hibiscus, Caryopteris) Habitat • Bee Viewing h

\$2,500

List of marketing expenses and projected cost

All marketing will be done at no cost through existing RSCL channels.

List of other expenses and projected cost

None, we will supply the required staffing, and liability insurance to support the project.

Any other sources of funding

No confirmed dedicated funding as yet, however we are wily, incredibly resourceful and may be able to access additional resources, support and funding!

Richmond Jewish Day School

Project Title: The Planting Promises Project

Applicant

Richmond Jewish Day School - Sabrina Bhojani – Michael Alan Sachs

Society Number

13335 4605 RR 0001

Grant Request: \$2,500

Description of Project (1000 words or less)

The mission of the “Planting Promises Project” will be to teach students about the importance of the conservation of trees in our natural environment. They will learn about native tree species and their positive impacts on our environment. Components that will be addressed will be tree growth and life cycles as well as the benefits of trees on our planet. Specifically, students will learn how trees shield the earth from wind and rain, act to prevent soil erosion, provide food and habitat for wildlife, clean our air through the process of photosynthesis and add to the natural beauty of our earth.

There is a special relationship between Jewish thought, the trees, and caring for the environment. One of the interpretations of the Torah that teaches us: “When G-d created the first man He took him and showed him all of the trees of the Garden of Eden and said to him ‘See My works, how beautiful and praiseworthy they are. And everything that I created, I created for you. Be careful not to spoil or destroy My world – for if you do, there will be nobody after you to repair it.’” (Midrash Kohelet Rabbah 7:13).

By connecting environmental sciences and the ethical teachings in the holy scripture, these lessons will culminate in students engaging in invasive species pulls to prepare the land and subsequently planting trees on our school property. Students will be primarily planting fruit trees as growing fruit-bearing species offers a unique chance to teach children about the importance of healthy foods and nutrition. These trees will enhance the natural resources system in Richmond by delivering shade, soil conditioning, food and habitat for local wildlife.

When students are able to see the effort and care needed to grow plants, they develop a sense of ownership for these living organisms. Developing this awareness of how precious nature is, can help our children become better connected to their environment, learning to be strong community ambassadors and advocates in protecting our planet.

Judaism is not alone in advocating for environmental protection. From Buddhism to Christianity to Hinduism to Islam, various faiths acknowledge the need for environmental stewardship and their scriptures urge followers to be caretakers of the planet, looking after the natural Earth and the organisms that live in it.

Located on No. 5 Road in Richmond, we hope to spread the message of environmental conservation and stewardship throughout the community.

Project Start

We would like the Planting Promises Project to commence in late March with classroom instruction. Students will learn about the life cycle of trees and the environmental benefits of trees as part of their science curriculum. Students will subsequently plant trees with community partners on our school property in the first week of April. Our students often engage in activities with senior residents in Richmond, and this may be an opportunity for intergenerational relationship building.

Project Location

The Planting Promises Project will take place at Richmond Jewish Day School located at 8670 No. 5 Road, Richmond B.C. Trees will be planted on our extensive property on the ALR.

Community engagement and outreach

We will promote the Planting Promises Project through our parent newsletter, community flyers and through our school website and the Jewish National Foundation which has engagement in the thousands across Metro Vancouver.

Organizations capacity and experience in hosting similar events

Our school has organized large-scale community events and has initiated environmental programming and stewardship numerous times before. We house a community garden in which students harvest the produce for personal consumption as well as to share with local food banks. Our staff of over 15 members are eager to help in making the Planting Promises Project come to 'fruition.'

Primary populations and specific environmental areas of Richmond the project will benefit

The Planting Promises will serve many purposes; as a potential outdoor classroom, the section of planted trees will provide children with the opportunity to receive engaging, environmental education and hands-on learning experiences. When the trees start fruiting, children will gain nutritional values from the fruits to harvest and excess fruit could be donated to local food banks developing their core competencies of social and environmental responsibility. Children will be taught how to propagate seedlings and build awareness of environmental conservation and sustainability.

How will the effects of the project be measured (short term and long term)

We will be measuring impact through the following ways by surveying students and community participants prior to the project and after to determine their levels of concern about the environment and ways that they can "do their part."

Partnering with other organizations – If so, who?

Yes – Jewish National Foundation

Description of expenses

- '- Materials: plants, soil, natural fertilizers
- Supplies: equipment rentals, tools, safety equipment
- Marketing and Promotion Materials: flyers, ad in local paper
- Education: Resource material; educational expert in agriculture
- Honorarium for Community Volunteers

List of supplies and materials and projected cost

Plants, soil, natural fertilizers, equipment rental, garden tools, safety equipment

\$2000 - Plants - \$1200; Soil - \$150; Natural fertilizers - \$250; Equipment rental - \$250; Garden tools/safety equipment - \$150

List of marketing expenses and projected cost

\$150 - Flyers, Posters, Ad in local news

List of other expenses and projected cost

\$350 - Education - \$200; Honorarium - \$150

Any other sources of funding

Yes – School fundraising

Green Teams of Canada

Project Title: Terra Nova Environmental Education & Restoration

Society Number

XS-0063065

Grant Request: \$2,500

Description of Project (1000 words or less)

Green Teams of Canada (GTC) is seeking support from the Richmond Environmental Enhancement Grant for its Lower Mainland Green Team (LMGT) to run one hands-on environmental education activity removing invasive plants at Terra Nova Rural Park.

This project supports goals outlined in the City of Richmond's Official Community Plan and Ecological Network Management Strategy. Through this collaborative partnership between GTC and the City of Richmond, environmental education and stewardship relevant to a multicultural audience along the West Dike will be provided to enhance the Ecological Network and reduce the biodiversity loss and economic impact of invasive species expansion.

This project will provide direct benefits for Richmond including:

- More opportunities for Richmond residents, especially youth, to engage in hands-on environmental education activities, connect to nature, get exercise outdoors, and build skills
- Improvement of Terra Nova Rural Park through the removal of invasive plants to increase in biodiversity and promotion of responsible usage
- Increased public education on the threat of invasive plants and climate change through participation and media articles
- Additional capacity for park staff to conduct conservation work
- Positive media exposure for Richmond parks
- A cost effective way to increase environmental stewardship among residents

The community impacts of this project include:

- 20+ community members, mostly aged 12-40 and from Richmond (communities from neighbouring municipalities will also be welcomed) will be engaged and contribute 60+ volunteer hours. Of the participants engaged, it is expected:
 - 60% will be introduced to stewardship activities
 - 40% will be introduced to Terra Nova Rural Park

These community members will:

- Develop a sense of belonging to community and place, enabling them to take care of each other and the places they live. This is especially important during COVID-19 when physical distancing is leading to greater social isolation and loneliness;
- Connect to nature, which cultivates a deeper respect for nature and leads to responsible environmental behaviour;
- Learn about environmental issues such as climate change and how it impacts local ecosystems;
- Have improved mental and physical health;

- Have increased confidence, resilience, and perseverance (vital in the COVID-19 pandemic and climate crisis);
- Build life skills such as critical thinking, leadership, and teamwork;
- Realize the power they have to make a difference as a group of committed people working together towards a common goal;
- Gain practical ecological restoration skills (plant identification, how to remove invasive plants);
- Become aware of civic responsibility and the role they can play in improving the environment and strengthening their community;
- Increase biodiversity and restore habitats in Richmond, making them more resilient to climate change

Ecological impacts of this project:

- 3+ cubic metres of invasive plants removed
- 3+ trees and 10+ native shrubs freed from being smothered by invasive plants

Community activities that focus on environmental action are needed now more than ever. The COVID-19 pandemic has amplified the need for social connection, sense of community, and connection to nature. Activities are organized to ensure community members feel welcomed, supported and serve as a space to encourage social connection. This is vital, in particular for youth, newcomers and minorities who disproportionately experience social isolation, mental health challenges and lack of connection and belonging. GTC has found ways to engage these demographics often under-represented in stewardship and will support these communities through this project.

Recent extreme weather events in BC affected many Richmond residents and have brought climate change to the forefront of the conversation. The impacts of climate change are especially being felt by young people who are expected to solve the problem and deal with its consequences. This project will turn climate anxiety into climate action by creating opportunities for Richmond residents, particularly those aged 12-40, to take direct action to improve environmental health in their community while learning about the local impacts of climate change through hands-on education. This project will instil hope and empower individuals and communities in the COVID-19 pandemic and climate crisis.

The following will take place as part of this project:

- Site visits and planning the activity (determining exact location, invasive plants to target) with City of Richmond staff
- Creation of activity registration and marketing materials
- Extensive outreach through social media, emails, media and personalized invitations to participate extended to community groups, local businesses, schools and First Nations
- Securing in-kind environmentally conscious rewards
- Managing volunteer inquiries
- Purchasing tools, gloves, refreshments and COVID-19 supplies
- Environmental education for participants including park history (including Indigenous connection), climate change, health benefits of being out in nature, native and invasive plants, and a thorough demonstration on how to identify and remove invasive plants
- Safety instruction for participants including how to use tools safely and COVID-19 protocols

- Transportation, set up and take down of tent, supplies, tools, gloves, communication banners, etc. for activities
- Sanitizing tools and washing gloves
- Documentation of activities through 50+ photos and 2+ videos of community members in action, sharing the impact of their participation
- Recording, tracking, assessing and compiling participant and ecological impact in database management system
- Administering a survey asking participants for feedback and impact
- Writing volunteer letters
- Reporting through a detailed blog describing community and ecological impacts (including before and after photos). The blog is posted shortly after the activity and disseminated to participants, the public and media through social media and emails
- Contacting media before and after each activity

This project will run in-person outdoors and will have strict COVID-19 safety measures that follow local health guidelines.

Project Start

This project will take place between March 1 and November 30, 2022. The exact date of this project will be confirmed with Magnus Sinclair/City of Richmond. Possible dates include but are not limited to March 26, April 23, May 28, June 18, July 16 September 17 or October 1, 2022.

Project Location

This project will take place at Terra Nova Rural Park. This location was chosen as it is accessible, provides an environmental education opportunity, and builds on previous work of the LMGT.

Community engagement and outreach

GTC's unique community engagement model includes conducting extensive outreach to everyone in the community, especially those who may not normally participate in stewardship activities. This includes researching and contacting potential participants, schools, organizations and businesses, utilizing social media, media outlets (local newspapers) and tapping into the LMGT's volunteer base of over 5,000 people, including Richmond residents.

Organizations capacity and experience in hosting similar events

Since 2013, Green Teams of Canada (GTC) has connected, built and empowered diverse communities through hands-on educational activities that promote health, well-being and environmental stewardship. Activities include invasive plant removals, planting of native species and clean-ups. GTC has won 11 social innovation awards (national, provincial and local) because it has reached and engaged a previously untapped young demographic aged 12-40. GTC's Lower Mainland and Greater Victoria Green Team programs are among the largest environmental volunteer groups in their respective regions. So far, the two programs have:

- Run 750+ activities in 120 green spaces and 30 municipalities
- Engaged 12,000+ community members of all ages, backgrounds and abilities
- Removed 4,600 cubic metres of invasive plants (equivalent to 28,750 bathtubs)

- Planted 25,395 native trees, shrubs and herbaceous plants
- Removed 7,200+ pounds of garbage, mostly from shorelines
- Worked with 65 schools and 100+ government agencies, non-profit organizations, educational institutions, land trusts and stewardship groups
- Raised environmental awareness to 2 million people through media coverage (120 times, including Global News, CBC Radio, and local newspapers)

Environmental and human health depends on our connection to community and nature, and this has never been more clear than during the COVID-19 pandemic. GTC's community engagement model was first developed in 2011 in the Lower Mainland to address social isolation, sedentary lifestyles, and a lack of local opportunities for individuals, particularly youth, to make a positive tangible impact on the environment.

Using activities that enhance natural habitat, GTC focuses on people. In changing and impacting people, health and well-being is prioritized, lifelong environmental stewardship is promoted, and community members are enabled to take care of each other and the places they live.

The Lower Mainland Green Team (LMGT) has run activities in Richmond since its founding in 2011, and has recently run activities with the City of Richmond at Terra Nova Rural Park in 2020 and 2021. To read summaries of these activities, please click the following links:

- April 24, 2021: <https://greenteamsCanada.ca/2021/04/25/terra-nova-park-april-24-2021/>
- April 17, 2021: <https://greenteamsCanada.ca/2021/04/19/terra-nova-park-april-17-2021/>
- November 20, 2020: <https://greenteamsCanada.ca/2020/11/09/terra-nova-park-november-7th-2020/>

Primary populations and specific environmental areas of Richmond the project will benefit

Activities are inclusive and engage people of all ages, abilities and backgrounds, notably those aged 12-40. Participants include but are not limited to students, at-risk youth, new immigrants, religious groups and Indigenous communities. Those with varying abilities are welcome and provided with alternative tasks (e.g. supervising and taking photos) that suit their needs. 65% of GTC participants are engaging in stewardship activities for the first time.

It is easy to sign up and attend a GTC activity as no experience is necessary. At no cost to participants, an educational talk and detailed training is provided in addition to tools, gloves, refreshments and rewards. GTC acknowledges the Indigenous territory where each activity takes place and ways GTC is contributing to reconciliation.

This project will take place at Terra Nova Rural Park, which is part of the West Dike Ecological Network Strategy Area. GTC will enhance this natural area by educating participants on and removing invasive plants that are overtaking native vegetation and trees.

How will the effects of the project be measured (short term and long term)

- Take 50+ photos of participants in action for the activity and post them online
- Take videos of participants in action and sharing their experience

- Conduct a post-activity survey to receive feedback on the activity and benefits experienced by participants
- Measure the volume of invasive plants removed in cubic metres using a measuring tape
- Measure the area of habitat revitalized in square metres using a GPS
- Count the number of trees and shrubs freed from invasive plants

All data is inputted into a database management system to track and report on outcomes. A blog will be published on GTC's website within 36 hours of the completion of the activity reporting the outcomes and showcasing photos. A PDF report summarizing the activity will be provided.

Partnering with other organizations – If so, who?

Yes – in-kind products from sustainable businesses to give to participants

Description of expenses

- Materials
- Supplies
- Community engagement work (plan and run activities, conduct outreach, provide education, manage volunteers, measure and report on impact)
- Insurance

List of supplies and materials and projected cost

Shovels, loppers, pruners, rakes, gloves, refreshments, tarps, COVID-19 safety supplies (masks, hand sanitizer, disinfectant spray)

\$205

List of marketing expenses and projected cost

Conducting outreach, providing volunteers with hands-on education, managing volunteers

\$1,972

List of other expenses and projected cost

Transportation of tools and supplies to and from activities, and activity administration including insurance and database management system for evaluation

\$323

Any other sources of funding

The full cost of a GTC activity is \$2,500 and this project will be fully funded by this grant. GTC provides \$2,016 of in-kind including media coverage, photos, volunteer time and volunteer rewards.

Garden City Conservation Society

Project Title: Sphagnum Moss Restoration on the Garden City Lands

Applicant

Garden City Conservation Society – Sharon MacGougan and Mike Bomford

Society Number

S-0053257

Grant Request: \$2,500

Description of Project (1000 words or less)

There would be five aspects to this project:

1. Training local volunteer 'citizen scientists' to identify sphagnum and understand key aspects of its biology and ecology in order to engage in the other aspects of this project;
2. Systematic sphagnum mapping for the bog side of the GCL;
3. High resolution evaluation/mapping of sphagnum growth in the 'mowed vs. unmowed' experimental site on the east side;
4. Transplanting any existing sphagnum from areas where soil will be spread to the bog restoration area on the east side;
5. Establishment of a sphagnum propagation system to allow ongoing transplanting to the bog restoration area.

Project Location

Spring 2022 - mapping and assessment of sphagnum

Summer 2022 - setting up propagation system

Fall 2022 - Transplanting of sphagnum

Project Location

Garden City Lands

Community engagement and outreach

Reaching out to GCCS membership and "Friends of the GCL" through newsletter/emails and the wider community through local and social media. KPU 's sustainable agricultural students will be involved in the project and students interested in ecology such as as Richmond's Green Team. The GCCS is already engaging students at the elementary and high school levels and would continue to build on this.

Organizations capacity and experience in hosting similar events

We have a history of engaging with a wider community:

1. Nature bog walks with Michael Wolfe have introduced many people to native plants of the bog.

2. Our participation at Harvestfest and Farmfest have been focussed on conservation education. The last Farmfest we highlighted birds and their habitat and signed people up for a bird walk with a Birds Canada representative. It was held at Garden City Community Park.
3. We hosted a first ever Earth Day event on the GCL in 2019, that included ceremonial tree planting.
4. Currently we're preparing to create a Miyawaki Pocket Forest at Richmond High School and are launching a monthly video podcast that will follow the project's progression. A wider community has already been created through this project through a regular email update.
5. KPU has a teaching garden on the GCL for school children and will be including sphagnum propagation at that site.

Primary populations and specific environmental areas of Richmond the project will benefit

Primary area of benefit in the GCL. Anything that strengthens the bog, benefits us all (wildlife and human populations). Bogs are considered the lungs of the earth.

How will the effects of the project be measured (short term and long term)

The ultimate goal would see increased areas of 'keystone species' sphagnum moss on the GCL. We will be tracking our work from the beginning.

Partnering with other organizations – If so, who?

Yes - KPU

Description of expenses

1. Materials needed for transplanting sphagnum;
2. Materials for propagation of sphagnum;
3. Expert advice
4. Video equipment rental and production costs to facilitate following the sphagnum moss story on the GCL;
5. Costs related to public outreach

List of supplies and materials and projected cost

6 folding quadrat frames for sphagnum survey; 3-100 gallon plastic stock tanks for sphagnum propagation, 12 floating seedling trays for s.p.; hoses and hardware for sphagnum propagation system

\$1000

List of marketing expenses and projected cost

Equipment rental, production on social media costs, graphics, audio, production and editing and post-production.

\$1150

List of other expenses and projected cost

Honorarium for ecology experts

\$350

Any other sources of funding

no

Terra Nova Nature School

Project Title: Natural Food Gardens

Applicant

Terra Nova Nature School with Thompson Community Association

Grant Request: \$2,500

Contact

P: 604-238-8437

Email: natureschool@richmond.ca

Description of Project (1000 words or less)

We propose a two pronged approach to maintaining an edible landscape in the gardens and immediate area surrounding the Edwardian Cottage in Terra Nova Rural Park: the removal of invasive species such as English Ivy and Himalayan Blackberry; AND, the planting and maintenance of indigenous plant species (such as huckleberry, thimbleberry, salal, oregon grape) and existing historical orchards of pear, cherry, apple, and hazelnut trees. Caring for existing plantings, while re-introducing native species, honours both the settler and Indigenous contexts of Terra Nova Rural Park.

Project Start

March- June, 2022, with both one time and regular times for community participation

Project Location

lands around Edwardian Cottage, bordered by pollinator meadow to south, parking lot to east, ditch and River Road to north, property line to east

Community engagement and outreach

TNNS has a large community of families connected through both year long and seasonal programs, and all will be invited to participate in the removal, planting, and maintenance of plants. In partnership with Thompson Community Association, TNNS has extensive social media resources such as Facebook, Twitter, blog, and websites. In addition, connections with Early Childhood Educators and local school and teacher groups are possible.

Organizations capacity and experience in hosting similar events

TNNS has hosted numerous seasonal and one-time educational opportunities for children, families, and educators. As TNNS coordinators, we have designed and led many workshops addressing place-based educational practices. In addition, we have a staff of 16, many of whom have significant training in environmental and food sustainability programming. We are very familiar with operating outdoor programs that meet COVID safety guidelines.

Primary populations and specific environmental areas of Richmond the project will benefit

Children and their families; interested community individuals and partners; lands around Edwardian Cottage as described above.

How will the effects of the project be measured (short term and long term)

Participant feedback will be gathered. Photo documentation and written reports will be created to share and showcase the work. Previous projects undertaken by TNNS (ie school gardens, caring for bird nesting boxes) have been maintained and developed over the years.

Partnering with other organizations – If so, who?

No

Description of expenses

plants

tools

honorarium for project lead

List of supplies and materials and projected cost

plants, shrubs & trees indigenous to local landscape; sturdy leather gloves for blackberry removal; orchard tools (ladders, pruners); printing costs of photo documentation booklet, field guide and map

\$1900

List of marketing expenses and projected cost

\$100

List of other expenses and projected cost

honorarium; refreshments for work party participants

Any other sources of funding

No

Richmond Secondary Green Teams

Project Title: Miyawaki Pocket Forest

Applicant

Richmond Secondary Green Team – Devika Soumya Prakash & Bruno Vernier

Society Number

S-0053257

Grant Request: \$2,500

Description of Project (1000 words or less)

We are creating an Outdoor Classroom, which connects to our existing gardens (community and school gardens plus berry patch) to create a large Outdoor Learning Environment. We already have a grant to create the outdoor classroom, but we are planning to install a “Pocket Forest” right beside it, to provide shade, education, mitigate climate events, and bring together the community.

The Pocket Forest idea comes from the Miyawaki Method of creating urban forests that grow quickly, densely and attract biodiversity, while mitigating the effects of climate change such as extreme weather, floods and drought. This is also a participatory project in that different community partners will be involved in the planning, planting and maintenance of the area. Furthermore, it will help to educate our local community and youth on native species, the importance of biodiversity and strategies to protect from climate events. (<http://urban-forests.com/miyawaki-method/>) All of the plants that will be implemented in this unique project are complimentary or native to Richmond. Employing these plants will not only densen the biodiversity in Richmond flora, but also conserve the land from floods, droughts, and other weather extremes as mentioned previously.

Project Date

October/ November 2022- Ongoing

Project Location

Richmond Secondary School Grounds

Community Engagement and Outreach

This project is an extreme community based one. To promote it, the Richmond Secondary Green team has already held a workshop in which Board member- Garden City Conservation Society Bruno Vernier explained the significance and impact Miyawaki Pocket forests can make. In the future, the RSGT plans to continue these workshops and promote this project to the extent of the school. We also will be inviting Urban Bounty and the Richmond Garden Club. Social media posts will be made by the RSGT, RHS and RSS_OLE (Richmond Secondary School Outdoor Learning Environment) on Instagram. Lastly, our project will also be written up by the Richmond News.

Organizations capacity and experience in hosting similar events

The Richmond Secondary Green Team is a coalition of individuals who are passionate about the upkeep of the environment. We are a group of around 10 people along with a teacher sponsor, but our outreach goes far to the entire school, as well as other organizations. We have experience in hosting multiple workshops, building outdoor learning environments and even advocating for and installing solar panels on our own school. To sum up, we have had many good examples of hosting a plethora of events of all sizes.

Primary populations and specific environmental areas of Richmond the project will benefit

This project will mostly be benefitting the environmental area of the Richmond Secondary Outdoor Learning Environment, and adjacent areas. This environment is mostly city-like, so building a “pocket-forest” inside of it will be advantageous in many aspects. This will be for students of the school, locals, and community members. It will proceed to provide shade, and nutrition for not only the people of the community but also the neighboring fauna.

How will the effects of the project be measured (short term and long term)

Short term:

- Community building through the planting and maintenance process.
- Education and workshops around the project.
- Due to the rapid growth in the beginning, opportunities to attract attention for science related activities such as experiments and observations will sprout.
- Within the first year, will already provide habitat for multiple species.
- Due to the rapid growth in the beginning,
- Excitement and awareness about this technique will be spread rapidly, in the short term.

Long Term:

- Environmental impact such as: Added greenery, improved air quality of the surroundings, surface stormwater runoff mitigation, countering to head island effect, Habitat, reduction of noise pollution, studies have shown that forests and greenery are beneficial to mental health, increase in biodiversity in soil.
- Forest will basically be maintenance free due to the nature of this method.
- This forest will be statistically 30x the density, 100x the biodiversity, and 16x the absorption of carbon than of normal forests.
- Balance of biodiversity, complex connections between organisms form.
- Density of this forest makes Richmond Secondary more resilient to flooding, making it a more reliable evacuation center.

Sources-

Schibli, H. S. (2021, February 8). Crafting tiny, fast-growing forests with the Miyawaki method. CanPlant. Retrieved January 18, 2022, from <https://can-plant.ca/blog/crafting-tiny-fast-growing-forests-with-the-miyawaki-method.htm>
<https://www.sugiproject.com/about>

Partnering with other organizations – If so, who?

Yes – Garden City Conservation Society

Description of expenses

Materials (e.g. plants, soil, amender);

800\$ (Plants and planting workshop supplies)

Soil (500\$)

Compost (200\$)

Supplies (e.g. equipment rentals, tools, safety equipment);

Bobcat rental (500\$)

Truck rental (200\$)

Marketing and promotion;

Food for volunteers (200\$)

Videography (100\$)

NOTE- Cost of the project exceeds the limitations of this grant, our team has applied to other grants to fulfill these needs.

List of supplies and materials and projected cost

Listed above

List of marketing expenses and projected cost

Listed above

List of other expenses and projected cost

Education (Materials and workshops), Honorarium (up to \$350), and Insurance (TBD).

Any other sources of funding

Yes - \$8000

'- Applied to Trees Canada grant. - Applied to Farm To School grant, unsuccessful. - Donations, and volunteer hours.

The Sharing Farm Society

Project Title: Enhancing Pollinator Habitat – Terra Nova Park

Applicant

The Sharing Farm Society – Sarah Drewery

Society Number

86323 8515 RR0001

Grant Request: \$2,500

Description of Project (1000 words or less)

Pollinator populations continue to decline dramatically, which also seriously threatens our own food security, for native pollinators and honey bees pollinate upwards of 75% of human food crops.

As a working community farm, The Sharing Farm's harvests are intimately linked to the health of these pollinator populations. Our project will do the following: 1) sow a quarter-acre of pollinator forage, timed to flower during the mid-late summer dearth period; 2) build on the existing volunteer-led flower growing program, to increase plantings of perennial forage plants and annual flowers in the healing garden and the north path and 3) host 2 native pollinator identification workshops to give Citizen Scientist training to volunteers and community members using the iNaturalist app. Workshop attendees will then be able to monitor our pollinator populations using the app. (<https://www.inaturalist.org> is an app for community members to contribute to biodiversity science, allowing the farm to gather data about current pollinator populations.) Expert pollinator activist Lori Weidenhammer (author of the book "Victory Gardens For Bees," Douglas & McIntyre, 2016) will conduct these workshops, in coordination with the Farm's Director of Operations & Beekeeper, who will support volunteers in using the iNaturalist app, identifying pollinators, and caring for the additional plantings.

The project would increase both pollinator habitat and the public's interaction with, and knowledge of, pollinators. The pollinator habitat would be increased both in the long-term and the short-term, via annual as well as perennial plantings.

Project Start

May-Oct 2022

Project Location

At the Sharing Farm, in Terra Noval Rural Park. 2771 Westminster Highway.

Community engagement and outreach

We will recruit volunteers for the flower growing program through Richmond Cares, Richmond Gives, I Can Help Richmond, Volunteer Connector, Charity Village and through our own social media (5000+ followers) and that of the Native Bee Society of BC. We will also look to partner

with other non-profits in Richmond to bring to the Farm groups of people who might not otherwise join our program, including Minoru Seniors Centre and Richmond Centre for Community Living. The workshop will be advertised to our volunteers, but also to the general public through our social media; a paid Facebook/Instagram ad; press releases to the local newspapers and, if permitted, advertising through the City of Richmond's social media and community centres.

Organizations capacity and experience in hosting similar events

We have been hosting a successful volunteer program for many years. With this grant we are looking to support and expand a new volunteer-led initiative to grow more flowers on the farm, which started in 2020, during the pandemic. We have hosted many workshops at the farm in the past and have worked with Lori Weidenhammer on several occasions. Our Director of Operations, Leslie Williams, is a master beekeeper and will also undertake the training on the iNaturalist app. Leslie and Lori both serve on the Board of Directors of the Native Bee Society of BC. Leslie will be able to provide on-site support for citizen scientists using the app.

Primary populations and specific environmental areas of Richmond the project will benefit

Our volunteers and workshop attendees come from a wide range of backgrounds and ages and The Sharing Farm takes positive steps to encourage underrepresented groups to come to the farm.

The environmental area will be Terra Nova Rural Park.

How will the effects of the project be measured (short term and long term)

- * Number of volunteers working on the flower growing program
- * Number of attendees to the citizen scientist workshops
- * Number of pollinator contributions to the iNaturalist app from the Terra Nova area
- * Square footage of pollinator forage planted

Partnering with other organizations – If so, who?

Yes – Native Bee Society of BC

Description of expenses

Seeds, perennial plant starts, organic amendments, tools (snips, floral scissors, pruners, gardening gloves, kneelers), irrigation equipment

List of supplies and materials and projected cost

Seeds, perennial plant starts, organic amendments, tools (snips, floral scissors, pruners, gardening gloves, kneelers), irrigation equipment
\$2,100

List of marketing expenses and projected cost

Facebook/Instagram marketing for the workshops

\$50

List of other expenses and projected cost

Honorarium for Lori Weidenhammer (workshop leader)

\$350

Any other sources of funding

Funding pending for New Horizons for Seniors for our general volunteering program of which the flower growing will form a part. We don't have other sources of funding for workshop/forage planting

Birds Canada

Project Title: Engaging Richmond Community for the Birds

Applicant

Birds Canada – David Bradley

Society Number

119024313 RR 0001

Grant Request: \$2,300

Description of Project (1000 words or less)

As identified within the City of Richmond’s Ecological Network Management Strategy the city, as part of the Fraser River Estuary supports globally significant populations of birds. Although not mentioned within the strategy significant portions of Richmond have been identified as part of the Fraser River Estuary Important Bird and Biodiversity Area. The abundance and diversity of birds provides a remarkable opportunity to educate and engage people of all walks of life with Richmond’s natural environment. In addition, there are tangible steps community residents can take to make their homes and neighbourhoods safer for birds. The two largest human-caused sources of direct mortality to birds are window collisions and cat predation. Individuals can take positive conservation steps to reduce these stressors by treating their windows and keeping cats indoors. People can also contribute to Richmond’s efforts to monitor the impacts of the Ecological Network Management Strategy by participating in established, long-running citizen science programs. Birds Canada is asking for the City of Richmond’s support through the Environmental Enhancement Grant to increase community engagement with birds for positive environmental outcomes.

With the support of the City of Richmond, Birds Canada will host a series of four or more workshops for community members, introducing them to the remarkable diversity of wild birds found in Richmond’s natural areas. We will also provide tools to allow specific actions that people take home to monitor and steward birds. The workshops will begin with an introduction to birding, during which Birds Canada will provide binoculars and birding identification guides for up to 10 people per trip.

The introduction to birding workshops (Birding 101) will be followed by a Planning a Bird Friendly Backyards module based on content in <https://birdgardens.ca>. Understanding that not everyone will have access to a backyard, we will include other individual actions people can take such as reducing window collisions and buying bird-friendly coffee. Funds from the Environmental Enhancement Grants will be used to purchase either a bird-friendly native plant for each workshop participant or a roll of bird friendly glass treatment. In this way, every workshop participant can implement a stewardship action immediately after participating in the workshop.

The final set of workshops will be focused on bird monitoring and citizen science. Birds Canada runs a number of bird monitoring programs across Canada. Birds Canada staff will offer a course in Project Feederwatch, an introductory bird monitoring program, eBird Canada, a mid skill-level citizen science program, or the more advanced BC Coastal Waterbird Survey. If there

is enough interest, we will also include an element of the Bird Window Collision Monitoring Survey. Other monitoring programs can be incorporated into the workshops depending on the level of interest. Each workshop offered will include a real time example to ensure the data on the birds of Richmond starts growing right from the first workshop.

Project Start

The initial Birding 101 workshops will be scheduled to occur the last week of March and first two weeks of April. The Planning a Bird Friendly Backyard workshops will be planned to coincide with the Greater Vancouver Bird Celebration in the second and third weeks of May. The final set of workshops will take place in the first weeks of November as the overwintering birds that are so abundant in Richmond begin to arrive.

Project Location

The most Birding 101 walks taking place within Terra Nova Rural Park. The bird stewardship workshops would occur at the feeders at Richmond Nature Park or the Bird House project

Community engagement and outreach

Birds Canada has an extensive network of naturalist and bird tourism partners we engage with across the Fraser Delta that we will leverage to reach out to the community. For instance, Birds Canada has supported the Richmond Library in establishing their birding kit lending program, so we will work with Richmond Library to let them know about the program. Birds Canada also supports Tourism Richmond in establishing the BC Bird Trail, so we will work with Tourism Richmond to have the events posted on the www.BCBirdTrail.com website. Birds Canada is one of the organizers of the Greater Vancouver Bird Celebration, so we will post the workshops on the Greater Vancouver Bird Celebration website. Birds Canada is also a partner in the Important Bird and Biodiversity Area Caretaker Network run by BC Nature, so we will distribute notice of the workshops to BC Nature and local naturalist clubs through that network. Finally, Birds Canada has a local social media presence and an email newsletter that we will use to promote the workshops.

Organizations capacity and experience in hosting similar events

Originally registered in 1967 Birds Canada is Canada's largest and most established bird conservation organizations. Birds Canada had a number of local staff with extensive personal experience as professional bird guides. Birds Canada staff also have decades of experience offering workshops and otherwise engaging Canadians in stewardship activities. Birds Canada has coordinated the BC Coastal Waterbird Survey and Project Feederwatch and is the Canadian host of eBird-Canada the world's largest citizen science bird monitoring project. Collectively, staff at Birds Canada have contributed to over 250 peer-reviewed publications and have in house expertise on a number of the bird species found in and around the City of Richmond.

Primary populations and specific environmental areas of Richmond the project will benefit

The stewardship workshops would focus on the birds found in proximity to homes in Richmond. Fraser Delta. Species such as the Rufous Hummingbird, Chestnut-backed Chickadee, Pine Siskin and Golden-crowned Kinglet are species identified by the Canadian Wildlife Service as conservation concern that would benefit from bird friendly backyards in the Richmond area. In

addition to the immediate environmental benefits, the birds counted within the BC Coastal Waterbird Survey such as Western Grebe, gulls and loons benefit as the BC Coastal Waterbird Survey is a primary data source to informing marine planning initiatives.

How will the effects of the project be measured (short term and long term)

In the short term, the effects of the project will be measured by number of participant and number of either native plants or window treatments distributed. Over the medium term, the success of the project will be measured as the number of people participating in bird monitoring projects. Over the long term, success of the projects will be measured in the status of bird populations found on the Fraser Delta.

Partnering with other organizations – If so, who?

Yes - We would be partnering with the Garden City Conservation Society to host events at the Bird House and spread word amongst its members. We would also work with the IBA Caretaker Network, Tourism Richmond and the Greater Vancouver Bird Celebration to spread word of the workshops.

Description of expenses

- Birds Canada Staff time - \$250 per workshop x 4 workshops \$1000
- Operational cost for Birds Canada - \$300
- 1 native plant per workshop participant - \$10 per plant x 20 = \$200
- 1 roll of Feather Friendly Window Markers per participant - \$15 per role x 20 = \$300
- Marketing cost - \$250
- Venue Rental - \$250

List of supplies and materials and projected cost

20 Native plants species to be determined in discussion with City of Richmond staff
20 rolls of Feather Friendly Window Markers

\$500

List of marketing expenses and projected cost

online promotion through Facebook and Instagram

\$250

List of other expenses and projected cost

\$250 for venue cost and potential Personal Protection supplies such as masks and hand sanitizer

Any other sources of funding

Operational cost to support Birds Canada staff / Staff time to host workshop

Be the Change Earth Alliance

Project Title: Clean Water Champions

Applicant

George Radner

Society Number

S-49829

Grant Request: \$1,750

Description of Project (1000 words or less)

Clean Water Champions (CWC) aims to empower youth aged 12 - 18 to take individual and collective action to address threats facing Canadian freshwater. The youth participants will experience hands-on learning to understand local issues surrounding freshwater, climate change, and waste management and gain valuable skills to take action. Taking action is an important antidote to 'eco-anxiety' or stress and anxiety caused by ecological destruction and climate change (Ojala, 2012).

CWC has two project activities:

Activity 1: Rain Garden

BTCEA, along with our project partners Cougar Creek Streamkeepers (CCS) and Richmond Presbyterian Church (RPC), will support and mentor youth to design and create a community rain garden that provides tangible mental and physical health and environmental benefits. A rain garden is a garden designed to absorb rainwater runoff that flows from streets, driveways, roofs, or lawns. They are critical in urban environments as they prevent pollutants and toxins from entering local bodies of water and increase the groundwater supply (CSS, n.d.). In Metro Vancouver, for example, flash flooding carries tailpipe toxins, brake and tire dust, road salt, excess fertilizers and pesticides, cigarette butts, plastic, and paper litter into the Fraser River, harming fish health (CSS, n.d.).

In addition to its environmental benefits, a community rain garden provides a vibrant urban green space for people of all racial, cultural, economic, and social backgrounds to enjoy. Especially during the COVID-19 pandemic, green spaces provide a critical mental and physical health refuge for community members. Urban green spaces have been shown to reduce temperatures and sequester air pollutants, such as car exhaust (Kruize et al., 2019).

Activity 2: Habitat/ shoreline cleanup

BTCEA will organize and facilitate youth at Richmond Secondary to conduct a local habitat or shoreline cleanup. The cleanup will directly reduce threats to freshwater by diverting garbage and (notably toxic and damaging to wildlife) cigarette butts. The cleanup will also provide

students with an experiential, place-based learning opportunity which will help youth engage with the issues surrounding freshwater. BTCEA experienced facilitators will be present on-site to educate the students and execute the logistics of the shoreline and habitat cleanups. For long-lasting personal change, it is valuable for youth to directly experience the impact of pollution on the environment and to work collectively as a school or class team to tackle a freshwater problem. BTCEA anticipates the experience will increase participants' sense of agency and galvanize them to take further individual and collective action.

To ensure the safety of our participants, staff and the communities, BTCEA will follow all relevant COVID-19 guidelines including, staying home when sick, wearing a mask, and social distancing. BTCEA will keep up to date on COVID-19 restrictions and make the necessary adjustments to the project activities.

Project Start

The rain garden will start on February 19th 2022 and will be completed by July 2022. The two-month-long project will be broken down into three phases:

Installation (February 19th - March 2022): BTCEA and CCS will provide education and training for the youth teams and help youth conduct site modification, install new hardscape elements, and plant indigenous and non-invasive species.

Enhancements (March – April 2022): BTCEA and CCS will support the youth teams in installing educational signage and accessible seating to encourage community visitation to the rain gardens.

Promotion and outreach (April – June 2022): BTCEA and RPC will engage in word of mouth and social media promotion to educate and encourage community members to visit and learn about the rain gardens.

BTCEA will lead at least one habitat cleanup on May 31st with 15-30 youth from Richmond Secondary. However, we are open to organizing and running more cleanups in Richmond if there is demand.

BTCEA staff will organize the logistics with Richmond Secondary school in advance including, equipment, transportation (if necessary), time, and meeting location.

Project Location

Rain garden: Public-facing property at Richmond Presbyterian Church, 7111 No. 2 Road

Habitat cleanup: Richmond shoreline or urban park, exact location to be determined by BTCEA & Richmond Secondary.

Community engagement and outreach

CWC's two activities will be promoted through BTCEA's website, social media, emails, newsletters and new and existing contacts.

To include and engage people in the community, we will conduct outreach in 3 ways.

Word-of-mouth. Youth participants and involved community members will seek to explain both project activities directly to neighbourhood residents as well as their friends and families. Announcements and updates about the community rain garden will be highlighted at church services and events, and congregants will be encouraged to spread the word about the new space. Community residents will also be invited to the official opening of the rain garden.

Social media. BTCEA, CCS, and RPC will post updates on social media throughout the planning and implementation of the community rain garden, encouraging reposting by youth participants, members of the congregation, and local organizations. BTCEA will promote the habitat cleanup on social media, our newsletters, and through new and existing relationships.

Signage. Community rain garden signage will be designed to attract, educate, and entice passersby to visit and enjoy the community rain garden.

Organizations capacity and experience in hosting similar events

Be the Change Earth Alliance (BTCEA) has been committed to fostering interconnected environmental and social (eco-social) change in communities and schools across BC, especially in the Lower Mainland, for the past 15 years. Our mission is to inspire, educate, and empower youth ages 11-18 to take personal and collective action for a just, sustainable, resilient, and fulfilling world.

BTCEA's flagship program, Student Leadership for Change (SLC), aims to empower teachers to deliver action-oriented, hope-inspiring environmental education to their students. The program consists of workshops delivered to both students and teachers and a free online library of learning resources that teachers can use in their classrooms. To date, SLC has reached over 1,500 teachers and 36,000 students, who have collectively taken over 150,000 actions and reduced over 628 tonnes of CO₂ equivalent emissions. We are continuously improving and adding to the online library of learning resources based on teacher and student feedback, and environmental and social justice needs.

Besides SLC, BTCEA also supports youth with meaningful opportunities for learning and sustainability action through current and past projects such as Water is Life, Waste Watchers, Climate Action Champions, and Citizens of the Future. BTCEA, along with CCS and local youth groups, has successfully designed and created a rain garden and organized five habitat cleanups with over 180 youth.

Primary populations and specific environmental areas of Richmond the project will benefit

The youth participants are the primary population that will benefit from both activities. The community will also benefit from an increased understanding of freshwater ecosystems, decreased waste in local habitats, and increased green space. Richmond scores poorly (relative to surrounding cities) on the amount of tree canopy cover and non-impervious (water absorbing) surfaces, two measures of healthy urban green spaces (Metro Vancouver, 2019). Therefore, the rain garden, although primarily benefiting those living in the Grandville neighbourhood and those who attend or visit the Richmond Presbyterian Church, will benefit all of Richmond by

increasing the available accessible green space. The habitat cleanup will also primarily benefit those living or visiting the neighbourhood in which the cleanup takes place, although the benefits will extend through Richmond as a whole by having decreased waste present in local parks, shorelines or urban areas.

Both the habitat cleanup and the rain garden will also benefit local bodies of water by reducing the amount of waste and pollution that enters them.

How will the effects of the project be measured (short term and long term)

Activity 1:

Youth participants will fill out surveys before beginning the project and after the project is complete, which will be compared to measure growth, increased understanding, and skills development. We will also conduct interviews with 2-4 youth participants once the project is complete for a more in-depth analysis on development and growth. These surveys and interviews will ensure we evaluate the following qualitative outcomes:

75% of youth participants demonstrate an in-depth understanding of how rain gardens work and their benefits for their community

75% of youth participants report an increased understanding of local issues and solutions related to freshwater

75% of youth participants report an improvement in teamwork and project management skills

75% of youth participants report an increased sense of connection and appreciation for nature

75% of youth participants report decreased eco-anxiety and improved physical and mental health

75% of youth participants report an increased sense of agency, confidence, and motivation for future environmental action projects

Youth along with BTCEA staff will directly monitor and evaluate:

10-20 youth participants

Over 100 community members reached and engaged

25 native plants and 25 non-native (non-invasive, pollinator-friendly, locally suitable) plants planted with an 80% survival rate after 1 year

At least 10,000 litres of stormwater reduced from entering the local freshwater ecosystem per year

Activity 2:

The habitat cleanup will be measured through the number of participants, the area of habitat cleaned and the kg of waste collected.

15-30 youth participants

1 ha of habitat cleaned

10 kg of waste removed

Partnering with other organizations – If so, who?

Yes – Cougar Creek Steamkeepers (CCS): Delivery partner Richmond Presbyterian Church (RPC): Delivery partner

Description of expenses

Staff and consultant time (youth supervision, facilitation, administration, planning, financial management):

CCS rain garden consultant & lead educator: \$1,350

BTCEA overall project management \$900

BTCEA rain garden planning, supervision, facilitation: \$1,800

BTCEA habitat cleanup supervision, planning, facilitation: \$1,300

Rain garden supplies + materials (already covered by existing grants):

Plants, boulders, soil, signage, planting equipment: \$2,500

Total expenses: \$7,850

List of supplies and materials and projected cost

N/A

List of marketing expenses and projected cost

N/A

List of other expenses and projected cost

Honoraria: BTCEA Overall Project Management(\$350) BTCEA Habitat Cleanup Facilitator 1(\$350) BTCEA Habitat Cleanup Facilitator 2(\$350) CCS Rain Garden Lead Educator(\$350) BTCEA Rain Garden Support(\$350)

Any other sources of funding

Environment Climate Change Canada-\$600 for BTCEA staff time,TD Friends of the Environment-\$2000 for BTCEA staff time, Pacific Salmon Foundation-\$2500 for rain garden supplies,CCS-\$1000 in-kind support

Rabbitats Rescue Society

Project Title: The Year of the Rabbit

Applicant

Rabbitats Rescue Society

Society Number

S0067441

Grant Request: \$2,500

Description of Project (1000 words or less)

Rabbitats is planning a far-reaching advocacy and educational campaign focusing on the unwanted and abandoned domestic rabbits and their invasive feral offspring populating Richmond. The campaign will be anchored by the 2023 Chinese New Year, the Year of the Rabbit. Rabbit-themed information will enjoy much added value with widespread media and citizen interest.

The campaign will be planned in 2022, kicking off in early 2023.

Richmond's large population of feral domestic rabbits is an animal welfare issue, a nuisance issue and a threat to the environment. The issue is polarizing: they are both loved and hated. The educational aspects of the project will include environmental information like nuisance advice, control options, gardening tips, contact information for unwanted pets, directions on dealing with injured rabbits, the dangers of feeding the rabbits and more.

The advocacy components will include anti-abandonment campaigns, etc, and the outreach will also feature citizen science monitoring and mapping the rabbits.

The campaign is in-part an extension of an awareness proposal made to the Richmond Community Foundation for 2020 that has been sidetracked by Covid. The proposal had focused on community meetings and direct contact with residents and businesses. The plans were stopped and restarted several times as Covid infections waxed and waned and Rabbitats re-thought the manner of outreach. The community meetings are by far preferred. From experience half or more of our target demographics are not typical social media users, nor will they attend online meetings. However, yet again stymied by the Omicron variant, it is time to move on and spend the remaining funds on alternative information distribution methods.

To that end, Rabbitats, in conjunction with the Pet Valu pet supplies chain, is developing the Rabbitats Mobile Shelter and Education Centre, a converted tour bus that can stage formal and informal interaction in parks, at festival events and outside businesses in parking lots. The bus (currently painted bright yellow with a pending major artwork project) will act as a large and bright signboard attracting citizen attention. Tables will be set up outside the bus to distribute information and engage with the community.

The bus is expected to make six to eight event visits over the course of the year. It will also act as a headquarters for citizen science rabbit mapping and tracking projects like a feral rabbit count. And it will be equipped with cages and trapping supplies to act as a mobile headquarters for major rabbit control projects (eg: the Rabbitats Dover Neighbourhood Project). It will double as a rabbit quarantine and treatment area, even when parked at the shelter.

The bus will be ready in late 2022 with a Year of the Rabbit kick-off campaign in advance of the mid-January 2023 new year date.

Rabbitats has partnership funding to convert the bus and has a working agreement to feature the work of a well-known artist, Carson Ting of Chairman Ting Industries, which is also raising the profile of the project.

We hope to form additional partnerships in particular with Chinese cultural and community societies.

Rabbitats was conceived as a feral rabbit rescue and control plan in 2011 – the Year of the Rabbit – with a strategic plan that stretched to the next Year of the Rabbit – 2023.

Project Start

Planning for the Year of the Rabbit in 2023 can begin as soon as funding is available in 2022.

The planning will culminate in an early 2023 project kick-off coinciding with the Chinese New Year.

Project Location

Richmond (multiple venues)

Community engagement and outreach

Our outreach is designed to initially target the Chinese community and others celebrating the Year of the Rabbit via direct contact with various societies and community groups to further plan a campaign for rabbit and environmental awareness. Once plans are in place with approved cooperative messaging, we will target all communities through both ethnic and regular mainstream and social media channels.

Organizations capacity and experience in hosting similar events

Rabbitats has staged community meetings and attended numerous festivals including The Salmon Festival, the Garlic Festival, London Heritage Farm's Farm Day and other celebrations. We have worked with the City of Richmond and a number of corporate sponsors including the Richmond Auto Mall. We also plan on bringing in marketing assistance to help with our outreach.

Primary populations and specific environmental areas of Richmond the project will benefit

While the Year of the Rabbit is primarily a Chinese celebration, we hope to use the celebration to raise awareness of the unwanted and abandoned rabbits and their environmental impact while working on both prevention and control involving all members of the community. Unwanted and feral rabbits populate most areas of Richmond. Areas with denser rabbit populations like Minoru Park and fast-growing populations like Steveston and Terra Nova may see increased coverage.

How will the effects of the project be measured (short term and long term)

Short term outreach goals will be realized by bringing in a number of additional partners and supporters (we're hoping for at least two) with the longer term goal of raising awareness identified by the promotional partnerships and the media coverage generated.

Partnering with other organizations – If so, who?

Yes – Pet Valu (pet supplies), Richmond Community Fund

What amount is requested from the EEG program

\$2,500

Description of expenses

Marketing Assistance

Marketing Materials

List of supplies and materials and projected cost

\$2000 assistance, \$500 Year of the Rabbit materials and advertising

List of marketing expenses and projected cost

Marketing assistance, promotional handout, some advertising

List of other expenses and projected cost

N/A

Any other sources of funding

Pet Valu - fully funding our Mobile Shelter and Education Centre; RCF - previously granted rabbit education funds for Richmond citizens covering presentation some costs

Coastal Partners in Conservation Society

Project Title: City of Richmond Bat Monitoring Project

Applicant

Coastal Partners in Conservation Society

Society Number

S0068891

Grant Request: \$2,500

Description of Project (1000 words or less)

This project will complement a Bat Research and Monitoring proposal submitted by a partner of Coastal Partners in Conservation Society (CPCS), the Wildlife Conservation Society Canada (WCSC). That project will conduct some baseline inventory in order to address four main knowledge gaps; which bat species are present within the City of Richmond, which habitats bats are using, where the critical habitat features (e.g., maternity roosts) are located and the relative size of local bat populations. Answering these questions regarding the basic population ecology of local bat species is critically important to facilitate conservation for bat species and habitats within the City of Richmond.

The City of Richmond was also the first municipality in the Lower Mainland to be certified as Bat Friendly. Because of that, the City has committed to protecting and creating bat habitat as well as educate the public and engage them in recognizing and ensuring a healthy ecological network that is available includes bats. This project will build on the City's commitment by providing further information on bat populations and offering opportunities for the public to engage in bat conservation. These efforts will foster a stewardship ethic in the community and support resident activation in environmental enhancement and monitoring of those enhancements for viability.

This project is directly applicable to two main components of the Council Strategic Plan 2018-2022: A sustainable and Environmentally Conscious City by providing information on how the utilization and naturalization of open spaces can support bat populations and by educating the public about nature and wildlife.

In addition, this project will meet all the goals of the Ecological Network Management Strategy: Goal 1: Manage and Enhance our Ecological Assets AND Goal 3: Create, Connect and Protect Diverse and Healthy Spaces – Existing bat habitat (natural and created) will be assessed to confirm occupancy and suitability for maximizing benefits to bats. Monitoring of existing bat boxes will be conducted in cooperation with the BC Community Bat Program (BCCBP) and volunteers and recommendations will be made about how to add to or modify existing habitats.

This will involve checking any existing bat boxes for occupancy via the presence of guano. If occupancy is detected, further monitoring would be conducted via the BC Bat Count:

<https://bcbats.ca/get-involved/counting-bats/>, in order to assess the size and productivity (how many pups are produced) of the colony. This can be determined by first counting bats in the maternity colony prior to having pups (how many females are present) and then counting bats after pups are born. In theory, the count should double post-pupping as most female bats only have one young per year.

Goal 2: Strengthen City Infrastructure – As part of recommendations for improving bat habitat, advice can be provided on how to make City Infrastructure Bat Friendly. Spaces identified in the WCSC Project that are City property could have habitat management and enhancement recommendations developed. If many bats are detected to occur in a particular area of land to be developed, this project can advise on how to maximize suitability for bats both in the buildings and other areas of the property (i.e., provide bat friendly spaces in the building or build a bat condo).

Goal 4: Engage through Stewardship and Collaboration – This project will work closely with the BCCBP, Naturalist Groups and other organizations or individuals who are keen to be involved in bat conservation efforts. Information booths could be set up (min. 2) in City parks to educate and engage the public. Any known or discovered colonies report through these efforts will be monitored, with a strong emphasis on Citizen Science to collect the data.

However, in order to make any of this work possible this project will need to work closely with WCSCs Project to first locate hot spots of bat activity. Currently, there are no known bat maternity colonies in the City of Richmond and bat boxes that have been installed are not yet occupied. Locating hot spots will be accomplished by first conducting acoustic monitoring, including establishing a transect through the City and setting up four static acoustic monitoring locations in accordance with the NABat Program protocols (<https://www.nabatmonitoring.org/>). Once hot spots are identified, colonies could possibly be located by assessing nearby habitats and noting signs of bat occupation (i.e., guano, emergence surveys – targeting areas bats are highly likely to be inhabiting such as older buildings or buildings with particular roof structures attractive to bats). In addition, bats may be radio-transmitted and tracked via the WCSC Project in order to significantly increase the chances of locating roosts.

Project Start

April to December including summarizing findings and providing recommendations

Project Location

Throughout City of Richmond, focusing on areas of high bat activity and highly suitable habitat that is identified.

Community engagement and outreach

Set up a minimum of two stewardship booths at City Parks; one is Spring to elicit reports of bats, and in particular colonies, and one is Summer when people often notice bats more as pups are beginning to fly.

Organizations capacity and experience in hosting similar events

CPCS has given talks or participated in stewardship events with booths on over 100 occasions for a variety of species of conservation concern, including bats.

Primary populations and specific environmental areas of Richmond the project will benefit

Areas with hot spots of bat activity would be the primary focus and beneficiary of work undertaken in this project.

How will the effects of the project be measured (short term and long term)

In the short term, the effects of the project will be measured by number of participant and number of either native plants or window treatments distributed. Over the medium term, the success of the project will be measured as the number of people participating in bird monitoring projects. Over the long term, success of the projects will be measured in the status of bird populations found on the Fraser Delta.

Partnering with other organizations – If so, who?

No

Description of expenses

- Materials - Bat boxes* ($\$100/\text{ea} * 10 = \1000). These funds could also contribute to a condo installation or other bat habitat enhancements
- Equipment rentals - Acoustic devices ($\$12/\text{night}/\text{unit} * 7 \text{ nights} * 4 \text{ units} = \336
- Mileage - For transects and deploying/managing acoustic devices ($1000 \text{ km} * 59 \text{ cents}/\text{km} = \590
- Honorarium - Training volunteers and expert opinion of investigating potential bat colonies/habitat enhancements and outreach = \$350
- Marketing and promotion- Citizen Science materials, booth/tent and materials rental for outreach events = \$224

List of supplies and materials and projected cost

See above

List of marketing expenses and projected cost

See above

List of other expenses and projected cost

See above

Any other sources of funding

This project will compliment WCSCs Research and Monitoring Project and work in collaboration with BCCBP Regional Coordinators and Volunteers

Green Seeds Music Society

Project Title: Richmond Nature Wonderland Fest

Applicant

Green Seeds Music Society

Society Number

S-0063613

Grant Request: \$2,500

Description of Project (1000 words or less)

This application for a City of Richmond Environmental Enhancement Grant is to provide funding for 2 community engagement events focused on wildlife education. A summary of the headlining Fest and subsequent Jam pop up events is below:

Richmond Nature Wonderland Fest (WIP title*)

- Richmond Nature Wonderland Fest (Date TBA in April 2022, celebrating Earth Month) is a family friendly, intergenerational pop up outdoor event for the public consisting of mostly Richmond, B.C., residents; organized to bring together doers, artists, teachers and those with a love of nature and their community who want to ensure a healthy environment for all. Throughout the day, the public would be able to learn about local wildlife (with a focus on content about pollinators) and invasive plant species; and be treated to a lineup of local artists, puppetry, music, stories and dance. This Richmond Climate Hub initiative by GreenSeeds Music Society, aims to enhance the City of Richmond's Ecological Assets by engaging the public through Stewardship and Collaboration.

Richmond Nature Wonderland Jam (WIP title*)

- Richmond Nature Wonderland Jam (Date TBA in June 2022), is a family friendly, intergenerational pop up event for the public consisting of mostly Richmond, B.C., residents; organized to bring together doers, artists, teachers and those with a love of nature and their community who want to ensure a healthy environment for all. Throughout the collaborative day, the public would be able to network with their community to learn about the City of Richmond's local wildlife vs invasive species up close in a workshop style event, and be treated to a lineup of local artists, puppetry, music, stories and dance. This Richmond Climate Hub initiative by GreenSeeds Music Society, aims to enhance the City of Richmond's Ecological Assets by engaging the public through Stewardship and Collaboration.

Project Start

As a Richmond Climate Hub initiative by GreenSeeds Music Society, we would like to do 2 pop up community engagement events in 2022. This application, requests funding for 2 events. Our

main hope is to host the Richmond Nature Wonderland Fest in Saturday April 23, 2022, followed by a smaller indoor (or tent covered) event in June 2022 (Date TBA) Covid permitting.

Project Location

We have been invited by Urban Bounty to host these events in Paulik Park, but would also welcome hosting either event at Garry Point Park or the Garden City Lands.

Community engagement and outreach

- We will distribute posters to coffee shops and local community centers and condo buildings, as well as, share the invite via paid social media advertisements and reach out to the Richmond News calendar team and paper regarding an announcement.

Organizations capacity and experience in hosting similar events

GreenSeeds Music Society was the organizer of the 2019, 100debates on the Environment event for the City of Richmond during the elections. We've also collaborated on multiple events with Climate Reality as hosts of Vancouver and Richmond Climate Hub initiatives and panel talk events. In 2021, we joined Pancakes and Puppetry in 3 pop up community arts based events and have access a great network of local artists and educators.

Primary populations and specific environmental areas of Richmond the project will benefit

We would engage the populations of Steveston and Richmond Center areas frequented the most by Richmond's residents and visitors.

How will the effects of the project be measured (short term and long term)

We will create event pages to gather RSVPs where possible to gather headcount and also have a #RichmondWonderland social media campaign asking attendees to share their favourite moments.

Partnering with other organizations – If so, who?

No

Description of expenses

Partner Org / Artist honorarium x 6	\$1,968.00
Indigenous Honorarium x1	\$150.00
Insurance	\$310.00
Marketing costs	72
Total	2,500

List of supplies and materials and projected cost

See above

List of marketing expenses and projected cost

\$72 for social media communications

List of other expenses and projected cost

Insurance, indigenous and artist honorariums (based on CARFAC's 2022 fee of \$328 for a half day)

Any other sources of funding

Not at present

2022 Environmental Enhancement Grant – Application-Scoring Criteria

Scoring									
□	←-----→								
0	1	2	3	4	5	6	7	8	9
<i>No Answer</i>	<i>Strongly Disagree</i>		<i>Somewhat Disagree</i>		<i>Neutral</i>		<i>Somewhat Agree</i>		<i>Strongly Agree</i>
Grant Guidelines									
1	The application includes activities that will lead to positive environment results within the timeframe of the project								
2	The application includes opportunities for community members to be involved								
3	The application clarifies the specifics of the positive environmental impact the initiative will yield								
4	<p>The application is consistent with and supportive of the City’s environmental goals as presented in Chapter 9.0 Island Natural Environment of the OCP as follows</p> <ul style="list-style-type: none"> - Protect, enhance and expand a diverse, connected and functioning Ecological Network - Promote green infrastructure and the Green Infrastructure Network and their underlying ecosystem services - Proactively implement practices to protect and improve water, air and soil quality - Develop Partnerships for “Ecological Gain” - Fostering Environmental Stewardship - Achieve long-term protection for ESAs through the implementation of the 2012 ESA Management Strategy <p>Note: during evaluation, applicants only have to address one of these goals, however, they should receive a higher score relative to the number of goals that they address.</p>								
5	<p>The application includes innovative projects that will contribute to a connected and functioning Ecological Network as presented in the City’s ENMS and PTMS as follows:</p> <ul style="list-style-type: none"> - Manage and enhance ecological assets - Strengthen city infrastructure - Create, connect and protect diverse and healthy spaces - Engage through stewardship and collaboration - Preserve and protect the public urban forest - Manage and maintain a healthy and safe public urban forest - Enhance and expand the extent and health of the public urban forest - Educate and engage with the community on the benefits of the public urban forest and provide opportunities for community stewardship <p>Note: during evaluation, applicants only have to address one of these goals, however, they should receive a higher score relative to the number of goals that they address.</p>								
6	The application contributes to healthy, diverse and functioning ecosystems								
7	The application supports the development of a stewardship ethic in the community								



City of
Richmond

Environmental Enhancement Grant Guidelines

Community Services Division
Parks Programs

Program Overview

The Community Environmental Enhancement Grant Program provides financial support to registered non-profit organizations for action-based projects that have measurable, positive outcomes on the environment in Richmond. Projects must be inclusive and focus on initiatives that contribute to the enhancement, restoration or conservation of Richmond's unique island natural environment.

Program Requirements

All projects must demonstrate that initiatives are measurable and will result in positive environmental impacts. All applications will be reviewed and prioritized according to the following criteria:

- Activities that will lead to positive environment results within the timeframe of the project;
- Opportunities for community members to be involved;
- A clarification on the specifics of the positive environmental impact that the initiative will yield;
- Consistent with and supportive of the City's environmental goals as presented in chapter [9.0 Island Natural Environment of the Official Community Plan](#);
- Innovative projects that contribute to a connected and functioning Ecological Network as presented in the City's [Ecological Network Management Strategy and Public Tree Management Strategy](#);
- Contributes to healthy, diverse and functioning ecosystems;
- Supports the development of a stewardship ethic in the community;
- Supports resident activation in environmental enhancement; and
- Supports the City's [circular economy principles](#)

Core Considerations

A successful project should address Council Strategic Plan 2018-2022: *A sustainable and Environmentally Conscious City* by aligning with the following items:

1. Addressing local climate change;
2. Local urban agriculture;
3. Utilization and naturalization of open spaces, and;
4. Nature and wildlife education.

The [Ecological Network Management Strategy](#) is the long-term ecological blueprint for the collaborative management and enhancement of the natural and built environments throughout the city, within neighbourhoods, and across land uses and development types in order to achieve ecologically connected, livable and healthy places in which residents thrive. The Ecological Network is built upon the following four primary goals:

- Goal 1: Manage and Enhance our Ecological Assets;
 - Goal 2: Strengthen City Infrastructure;
 - Goal 3: Create, Connect and Protect Diverse and Healthy Spaces; and
 - Goal 4: Engage through Stewardship and Collaboration.
-

Eligibility

Only registered non-profit societies (society incorporation number must be provided) are eligible for the Environmental Enhancement Grant. These groups include:

- Environmental groups;
- Community groups;
- Youth and seniors groups;
- Community-led associations; and
- Service clubs.

Note: Non-profit organizations operating outside of Richmond are eligible to apply for grant funding for projects occurring in Richmond, however these projects will receive lower prioritization than Richmond based organizations.

Purposes eligible for funding

Grants may be used for the following purposes:

- Materials (e.g. plants, soil, amender);
- Supplies (e.g. equipment rentals, tools, safety equipment);
- Marketing and promotion;

- Education;
 - Honorarium (up to \$350); and
 - Insurance.
-

What type of projects will be considered for grant funding?

The following are examples of eligible projects under the Community Environmental Enhancement Grants Program. These projects may be part of a larger initiative, or be carried out as one-day events:

- Invasive species pulls;
- Native tree and shrub planting;
- Create or enhance bird habitat;
- Create or enhance pollinator and beneficial insect habitat;
- Watercourse enhancement;
- Shoreline and street clean-up's;
- Wildlife education;
- Fruit tree gleaning;
- Projects that expand programs such as [Richmond's Bat Friendly City certification, Barn Owl Box Program, Pollinator programs](#);
- Reduce light pollution in natural areas;
- Citizen science engagement and outreach initiatives;
- Water quality monitoring; and
- Green infrastructure projects (e.g. rain gardens, bioswales).

Projects are not limited to the above examples, if you have questions on whether or not your project is eligible for grant funding please contact the grant administrator.

What type of projects are not eligible for grant funding?

The following are examples of projects that are not eligible under the Community Environmental Enhancement Grants Program:

- Projects that have received funding from other City Grant Programs;
- Projects designed only to beautify an area for cosmetic purposes;
- Projects primarily focused on and/or expenses associated with the construction of infrastructure with the exception of projects related to natural infrastructure;
- Purchase of a vehicle or other non-grant related items;
- Lobbying, advocacy or fundraising activities;

- Further disbursement of funds to a third party recipient;
 - Projects that take place outside of Richmond;
 - Projects only designed for recreation; and
 - Administrative purposes.
-

What makes for a strong application?

- Enhances, restores, conserves and/or protects the environment;
 - Includes objectives that are realistic, achievable and measurable;
 - Demonstrates direct and measurable environmental benefit;
 - Provides an opportunity for community members to become actively engaged in the project activities and educates them on environmental issues;
 - Clearly demonstrates the ability to carry out the project successfully;
 - Clear project goals and objectives;
 - Clear action plan, which is realistic and attainable in terms of timing and resources;
 - Evidence of community support and inclusiveness;
 - Evidence of an evaluation plan to measure project effectiveness;
 - Evidence of financial need and fiscal responsibility; and
 - Willingness to work in collaboration with other City-related sustainability initiatives.
-

Awarding of Grants – Spring 2022

- i) Council decision**
 - City Council reviews recommendations forwarded by the General Purposes Committee and makes the final decisions.
 - Generally, City Council will decide on grant allocations in the first quarter of the year. Please contact staff to confirm the date.
- ii) Grant Disbursement**
 - Applicants may receive full, partial, or be denied funding for their application.
 - Applicants who receive partial funding will have the opportunity to confirm if their project can still be implemented.
 - Grants are distributed with a cover letter indicating the amount and purpose of the Grant, a brief explanation of increase, decrease or denial if applicable, and to contact staff if further information is required.

iii) Reporting and Acknowledgement of Grant Benefits

- Those receiving a grant must provide evaluation results either at year-end.
- Successful applicants must complete and submit the Environmental Enhancement Grant Final Report which will be disseminated upon application approval.
- City support is to be acknowledged in all information and publicity materials pertaining to the funded activities. To receive an electronic copy of the City's logo, please contact staff.

iv) Recuperation of Grant

If the grant will not be used for the stated purpose, the full amount must be returned to the City.

v) No Appeal

There is no appeal to Council's decision.

How to Apply

To apply, visit <https://bit.ly/rmdenvirogrant> (case sensitive URL)

Contact Information

For any information regarding the Environmental Enhancement Grant Program, contact Parks Programs at parksprograms@richmond.ca or call 604-247-4453.



POLICY 3712:

Please note that there is a separate Sport Hosting Incentive Grant Policy (3710) and Child Care Development Policy, including Child Care Grants (4017).

It is Council Policy that:

1. The following City Grant Programs be established, to be designed, administered and reported by the respective departments:
 - Health, Social and Safety (Community Social Services)
 - Arts and Culture (Arts, Culture and Heritage)
 - Parks, Recreation and Community Events (Parks and Recreation)
 - Community Environmental Enhancement Grants Program (Parks and Recreation).
2. Casino funding may be used to create four separate line items for these City Grant Programs in the annual City operating budget.
3. Each of the-four City Grant Programs may receive an annual Cost of Living increase.
4. A City Grant Steering Committee consisting of a representative of Community Social Services, Arts and Culture, Parks and Recreation, and Environment will meet at key points in the grant cycle to ensure a City-wide perspective.
5. Applications will be assessed based on program-specific criteria that reflect the City's Corporate Vision, Council Term Goals and adopted Strategies. Information regarding assessment criteria and the review process will be provided in Program Guidelines.
6. City Grant Programs will consist of ~~two~~ **three** streams of grant requests:
 - (i) \$5,000 or less;
 - (ii) ~~over \$5,000, whereby application requirements may be streamlined for requests of \$5,000 or less; and~~
 - (iii) no more than \$500 for individuals applying for the Environmental Enhancement Grant.**
7. ~~Only registered non-profit societies governed by a volunteer Board of Directors requesting funding to serve primarily Richmond residents, are eligible, except for individuals accessing the Environmental Enhancement Grant.~~
8. Applicants may receive only one grant per year **unless applying for Environmental Enhancement Grant funding for projects not utilizing other City Grant funding.**
9. Community Partner documents submitted to fulfill annual funding agreements with the City will be considered as part of grant application requirements.



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Adopted by Council: July 25, 2011 Amended by Council: July 9 ,2012		

10. Due to the high number of applications for limited funding, and as applicants may apply the following year, no late applications are accepted and there is no appeal process to Council's decision.