Per Capita Grant Application

1. Your Organization:	Name: UMEarth	
	Payee (if different than above):	
	Address:	
	Postal Code:	Phone No.
2. A Contact Person with whom the City can communicate:	Name: Bella Coreau	
	Address/Phone No.:	
3. Total Grant Requested:	$500	
4. Amount received in prior year:	NA	

5. Organization's purpose:

UM Earth (University of Manitoba) is a student-led engineering organization focused on sustainable water, sanitation, and community infrastructure solutions. We integrate technical design with hands-on fieldwork, producing projects that deliver tangible benefits to communities while equipping students with real-world engineering experience.

UM Earth's projects provide students with valuable skills and experiences that extend far beyond the classroom. Our initiatives give students opportunities to apply technical expertise, strengthen problem-solving abilities and practice communication skills in fast-paced, collaborative environments. For many students, brigades and research projects are their first chance to design and implement real engineering systems with immediate community impact. The last two brigades not only enriched participants' engineering skills but also reinforced their commitment to sustainable development. Outside of fieldwork, our members gain professional experience through fundraising, presenting to industry leaders, and building networks across Manitoba. These activities prepare our students to enter the workforce with strong community engagement, sustainability, and leadership skills. Sponsorship directly supports:

Community impact: Funding water system design, construction, and long-term sustainability.
Student training: Enabling accessible participation for all students regardless of financial background.
Local connections: Linking students, faculty, and industry through shared sustainability goals.

Your contribution acts as both a direct investment in partner communities and in the future engineering workforce of Manitoba.

6. List and describe programs/proposals for which funds are requested:

UM Earth leads three core initiatives: Global Engineering Brigades, Canadian National Water Treatment Competition (CNWTC), and the Trickle Filter Project. Together, these balance international development work with applied research and innovation, ensuring both immediate community impact and long-term technical growth.

Water Systems Engineering Brigade to Rural Guatemala:
For the past 2 years we have worked with Global Brigades to provide design services to communities in Honduras. The Global Engineering Brigades connects UM Earth students with rural partner communities to co-design and implement sustainable water systems. The next brigade is scheduled for 2026 in Guatemala, with an estimated budget of ~$60,000 and a team of 12–15 students. Past brigades have included detailed pipeline mapping (~14 km with 50 m data points) and on-site collaboration with residents

Canadian National Water Treatment Competition:
The CNWTC brings together student teams from across Canada to design and demonstrate innovative water treatment systems under realistic constraints. 2026 marks UM Earth's first year competing, making this an exciting milestone for our group as we bring our sustainability and design expertise into a national arena.
Through the competition, students: Develop engineering skills in water filtration and treatment design, gain experience working under pressure with strict time and resource limits, network with industry experts and connect with students from other universities. They also strengthen teamwork and communication skills in high-stakes settings.
Participation also provides valuable travel opportunities and exposure to cutting-edge water technologies. It complements UM Earth's local research by allowing students to test and benchmark their designs in a competitive environment, with lessons feeding directly back into projects like the Trickle Filter initiative.

Trickle Filter Research Project:
The Trickle Filter Project is a locally based applied research initiative exploring sustainable wastewater treatment through biological filter systems. Operating out of the Sustainability in Action Facility with guidance from Dr. Joe Ackerman, the project nitrifies ammonium-rich greywater to make it safe for environmental release.
Research activities include Testing water quality parameters to evaluate filter performance, determining the time required for full conversion of ammonium to nitrate, comparing different filtering media to identify the most effective designs and exploring nutrient recapture and low-energy filtration to create scalable sustainable solutions.
The Trickle Filter Project provides UM Earth members with hands-on research experience, bridging the gap between classroom learning and practical environmental engineering. It also contributes to the development of affordable, sustainable greywater treatment systems with potential for both local and international application.

7. Describe the nature and intent of volunteer involvement:	The nature and intent of our volunteer involvement is described in sections 5 and 6. Apart from our 3 main projects we have this year, we are looking for more outreach and volunteer ideas. We have been looking for c
8. Name other sources of funding:	1. FWS
	2. Crosier Kilgour
	3. Maple Leaf Construction
Date: December 8, 2025	*Name or Initials of Signing Authority:* BC

If applicable, attach the following information to the application:

Financial statements including statement of expenditures and revenue Operating budget Complete salary schedule

Please be advised that all materials submitted with the application will become part of the public record and may be published online.

Submit completed application to: East Kildonan-Transcona Community Committee City Clerks Department, Susan A. Thompson Building 510 Main Street, Winnipeg, MB R3B 1B9	**City Clerk's Department** **Email: CityClerks@winnipeg.ca**