

Report to: Environmental Issue Committee Meeting Date: Aug 2, 2017

SUBJECT: Markham Environmental Sustainability Fund (MESF),

**Funding Applications** 

**PREPARED BY:** Claudia Marsales, Senior Manager, Waste and Environmental

Management, Environmental Services

#### **RECOMMENDATION:**

1. THAT the report entitled "Markham Environmental Sustainability Fund (MESF), Funding Applications' be received;

- AND THAT funding application by James Robinson Public School for an Interactive Virtual Tour of the universally accessible schoolyard, for \$5,000.00, be approved;
- 3. AND THAT funding application by The Toronto and Region Conservation Authority, in partnership with the Markham Museum, for a pollinator awareness and planting project, for \$8,200.00, be approved;
- 4. AND THAT funding application by Ontario Streams for a Stream Rehabilitation Project, for \$5,190.50, be approved;
- 5. AND THAT funding application by St. Michael Academy School for two outdoor classrooms (Site # 1 and Site # 2), for a total of \$7,300.00, be approved pending approval from the York District School Board for Site # 1;
- 6. AND THAT the funds totalling \$25,690.50 be provided from the Markham Environmental Sustainability Fund (MESF), account #87 2800168;
- 7. AND THAT further, that Staff be authorized and directed to do all things necessary to give effect to this resolution.

#### **PURPOSE:**

The purpose of this report is to recommend that funding from the Markham Environmental Sustainability Fund be provided for four community environmental projects for a total of \$25,690.50.

#### **BACKGROUND:**

The City of Markham Council created the MESF to provide financial resources for City of Markham-based projects and initiatives that promote environmental responsibility and enhance the protection of the City's natural resources.



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#### **OPTIONS/ DISCUSSION:**

A total of 2 funding applications were received and accepted as part of the 2017 spring funding cycle.

The Toronto and Region Conservation Authority and James Robinson Public School funding applications received in the 2016 fall intake are being processed as part of the 2017 spring funding cycle.

The 4 funding applications are:

Markham's Pollinators: Bees, Butterflies and Beyond
 The Living City Foundation – Toronto and Region Conservation Authority

This project supports Markham's declaration in 2016 to become a Monarch-Friendly City. The project will create habitat for local pollinators and educate residents about pollinators and their environmental importance. Activities include creation of a pollinator garden at the Markham Museum, produce education materials and displays and senior education events.

2. Interactive Virtual Tour James Robinson Public School

The purpose of the project is to create a virtual tour of the 550 m learning trail that links native shade, sensory and food gardens, an outdoor classroom.

3. Markham Stream Rehabilitation Project Ontario Streams

The purpose of the project is to rehabilitate and enhance in-stream habitat within German Mills Creek, Robinson Creek and Berczy Creek. Project includes garbage removal and riparian plantings to stabilize creek banks.

Outdoor Classrooms
 St. Michael Academy School

The project is for the creation of 2 outdoor classrooms including tree plantings, seating area and monarch butterfly friendly plantings. Project is to be completed in 2 phases.

#### PROJECT DETAILS:

All four projects meet MESF program requirements and community funding criteria, as outlined in Attachment 1, therefore this report recommends the approval of the four community environmental projects.



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Although schools may only receive a maximum of \$5,000, the report recommends that St. Michael Academy School be approved for a total of \$7,300, split between Site #1 and Site #2. Site #2 is located on separate board property but Site #1 of the project is located

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on lands owned by York Region District School Board (YRDSB) and therefore the recommendation to approve this project is pending consent from the YRDSB.

#### FINANCIAL CONSIDERATIONS:

The spring 2017 deadline for MESF applications was February 17, 2017. Each application has been evaluated based upon funding criteria. The following chart summarizes recommended expenditures from the MESF Reserve Fund for spring 2017.

MESF Funding 2017				
TOTAL MESF FUNDING Available	\$131,206.27			
ZERO WASTE FOR SCHOOLS* (managed by Waste Management	\$25,000.00			
staff)				
Remaining 2017 MESF FUNDING	\$106,206.27			
FUNDING RECOMMENDED FOR MESF PROJECTS -				
2017 Spring Cycle				
James Robinson Public School Virtual Tour	\$5,000.00			
Toronto and Region Conservation Authority Pollinator Project	\$8,200.00			
Ontario Streams Rehabilitation Project	\$5,190.50			
St. Michael Academy School	\$7,300.00			
Total Spring 2017	\$25,690.50			
MESF FUNDS REMAINING for Fall 2017	\$80,515.77			

<sup>\*</sup>Zero Waste for Schools Program allocated \$25,000 on an annual basis beginning 2013 as approved by Council on December 18, 2012

Staff recommends that the funding applications for four community environmental projects totaling \$25,690.50 be approved and that the remaining \$80,515.77 be used for the fall 2017 funding cycle

#### **HUMAN RESOURCES CONSIDERATIONS**

Not Applicable

#### **ALIGNMENT WITH STRATEGIC PRIORITIES:**

The recommended projects align with Corporate initiatives regarding environmental sustainability.



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 James Robinson Public School's virtual tour and St. Michael Academy School's outdoor classroom project both support the Greenprint's priority of facilitating learning and skills development.

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- Both projects submitted by St. Michael Academy School and Toronto and Region Conservation Authority support Markham's 2016 declaration of becoming a Monarch-Friendly City.
- Ontario Stream's rehabilitation program aligns with the Greenprint's priority of Ecosystem Integrity by increasing biodiversity, tree canopy and vegetation coverage and developing and supporting wildlife. The TRCA's project also aligns with the priority of Ecosystem Integrity by planting native wildflowers and creating a bee habitat box.

#### **MESF REVIEW**

This Funding Program was established in 2002, along with Environmental Issues Committee (EIC). The mandate includes review and making recommendations to General Committee on MESF and Trees for Tomorrow funding applications and overseeing management of these funds. MESF applications were first received in 2004, following adoption of a process and criteria for application review.

It is being recommended that acceptance of MESF funding applications be suspended until the programs priorities, administration and process can be reviewed to ensure alignment with current environmental priorities and ensure there is consistency in funding programs across the Corporation.

#### **BUSINESS UNITS CONSULTED AND AFFECTED:**

Finance

**RECOMMENDED BY:** 

Claudia Marsales

Senior Manager, Waste & Environmental Management



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Phoebe Fu. P. Eng.

Director, Environmental Services

Brenda Librecz

Commissioner, Community and Fire

Services

#### **ATTACHMENTS:**

- 1. Markham Environmental Sustainability Fund Applicant's Guide
- 2. James Robinson Pubic School Virtual Tour requesting \$5,000
- 3. Toronto and Region Conservation Pollinator Project requesting \$8,200
- 4. Ontario Streams Stream Rehabilitation Project requesting \$5,190.50
- 5. St. Michael Academy School Outdoor classroom Project requesting \$7,300





Markham, Ontario, L3R 9W3

## Markham Environmental Sustainability Fund Applicant's Guide and Application Form

#### What is the MESF?

The MESF is a municipal program that funds innovative and leading environmental initiatives that contribute to the sustainability and health of the natural environment. The fund provides financial resources for projects in Markham that promote environmental responsibility and enhance the protection of the Markham's natural resources. The purpose of the fund is to provide demonstrable, widespread and lasting environmental benefits to the Markham community.

#### Who Can Apply?

Eligible organizations include: other levels of government, public agencies, school boards and Markham Community Groups including: Markham-based community ratepayer associations and local organizations, such as conservation groups, Scouts,

Multi-jurisdictional groups, such as NGOs, or other organizations may be considered if there are clearly demonstrable benefits in the City of Markham, conditional on such groups working with a local Markham community group.

A maximum of 3 schools may receive funding per funding cycle, to a maximum of \$5,000 each. Schools must be "Zero Waste" Schools (have an organics waste program) to be eligible starting in 2013.

Individuals and "for profit" organizations are not eligible. Any project that results in a direct financial private benefit to the fund recipient is not eligible

#### What are the Program's Requirements?

Applications will be considered by the Environmental Issues Committee for recommendation to the Finance and Administrative Committee and Council. The following objectives shall be considered by the Environmental Issues Committee when reviewing applications

- the project is a leading environmental innovation (i.e. pilot project) that can be showcased by the City of Markham
- the project promotes education, understanding and participation in environmental sustainability in the City of Markham; and,
- the project supports Markham's environmental policies and strategic plan

Projects will be expected to meet at least one of these objectives, if not more. Applications that do not meet any of these criteria will not be approved.

#### What are the Community Funding Criteria for an Application?

- projects must be within the City of Marknam and initiated by members of the City of Markham Community, or City of Marknam Community Groups:
   applicants can request a maximum of \$10,000 from the MESF per project per year;
- · applicants may only apply once a year, for projects that will be completed within that same one-year time frame (12 months from issuance of cheque);
- · only materials and equipment costs (not consulting services) are eligible for funding from the MESF
- the project should have measurable results;
- the project should have demonstrable widespread and lasting environmental benefits for the Markham community;
- any groups that received fund ng for projects which have not been completed and reported on are not eligible for future funding, and
- funding will not be granted where projects have been commenced.

#### What are some Suggested Projects?

- · energy efficiency initiatives pilot projects
- climate change reduction and Kyoto intratives
- clean air awareness activities and initiatives
- water management promotion
- green roof promotion and implementation
- downspout disconnection/rain barrel program
- wildlife habital restoration/naturalization activities

- · water conservation/efficiency initiatives
- natural features study update/implementation
- · environmental and natural gardening promotion and information
- clean-up activities
- environmental management activities
- school environmental projects

#### When are the application deadlines?

Funding is awarded twice each year - in Spring (February application deadline) and Fall (September application deadline). For specific dates please refer to the website or contact the Manager. Policy & Program Development

#### How Do I apply?

- Carefully review these guidelines to ensure your group is
- Step 2 Speak with the Manager, Waste & Environmental Management about your proposed application
- Step 3 Prepare any supporting information, such as illustrations and maps and attach them to the application form. Sufficient and complete information must be provided with the application for the Environmental Issues Committee to
- Submit your application to the Manager, Waste & Environmental Management, 8100 Warden Ave. City of Markham. Ontario, L6G 1B4. Telephone 905-477-7000, Fax 905-479-7772.

#### Application Checklist

Please ensure that your application is complete. Are the following included in your

- A complete and signed application form, including all budget and funding details
- All supporting documentation such as a map, species list, etc.
- Consent letter from registered owner, if applicable

#### What will happen next?

The Environmental Issues Committee will review all applications taking into account the established objectives and criteria described above. They may choose to grant the right to the applicant to present their proposal if requested. They will determine which projects should be funded and how they should be funded (in a single payment or in phases) and make a recommendation to General Committee and Council.

#### How will I be notified?

A letter of acknowledgement will be sent upon receipt of an application. If your project is approved for funding, you will be contacted. If your application is not approved, you will be informed in writing.

#### What happens after the Project is completed?

Upon completion of the project and no later than 12 months from delivery of the funding, you are required to submit your project report. Include a project report and photos so we can review and promote your project, together with the completed consent forms permitting use of your photographs by the City (copy attached).

#### What does a Project Report Contain?

- accounting of how all funding has been spent
- original copies of paid invoices.
- description of the success/any shortfalls of the project
- photographs for review and promotion of the project
- completed consent form for use of photographs

A project format will be provided to assist you in preparing the report

#2

## **Application Form**

For Office Use Only - Project No.:

Name	James Robinson Public School			
Address	90 Robinson Street			
Phone	905-294-3484	Fax	905-294-4626	
Email		Website Address	www.jamesrobinson.yrdsb.ca	
The Charitable/Non Profit Organization registration documentation is available from the York Region District School Board (YRDSB) #119306462RR0001		Our Group has a head, and the		
		No X Fun Generated Account	nds would be deposited into the School managed and monitored by YRDSB	

James Robinson Public School (JRPS) services approx. 335 students, ranging from Junior Kindergarten to Grade 8. Its diversity is its strength. JRPS has a long history housing 2 multi-exceptionality community classes, (for medically fragile students) a transition class (for children on the autism spectrum), and 2 student support centres (for children with learning disabilities). Over 18 dialects are spoken at the school. JRPS was the 5<sup>th</sup> school to implement a curb side organic waste pick up program in Markham and is a gold certified Eco School. Over the last 7 years a committed group of volunteer staff, parents and related professionals have developed a universally accessible schoolyard that features a 550m paved learning trail that links native shade, sensory and food gardens, an outdoor classroom, outdoor accessible stage and naturalized loose parts play zone. People of all abilities and ages can use this specialized green space. We seek funding to produce an Interactive Virtual Tour of the green space to add another level of sustainability to this unique community project. The support from the community has been over whelming....Right from our Landscape Ontario construction partnership to neighbours helping to water newly planted native trees for the past five years..

Hame	Jeanette Mciellan	Name	Laura Meffen
Title	Teacher-Environmental Literacy Lead	Title	
Phone (work)	905-294-3484	Phone (work)	Parent and School Council Equity Officer
Phone (home)	647-532-1408	Phone (home)	416,002,0544
Email	jeanette.mclellan@yrdsb.ca	Empil	416-903-8541
Droiget Comme	THE STREET AND THE PROPERTY OF		laura.meffen@gmail.com

The same of the sa			
James Robinson PS Universally Accessible			
Schoolyard INTERACTIVE VIRTUAL TOUR			
90 Robinson St. Markham (near Hwys #7 and #48)			
York Region District School Board (YDRSB)			
60 Wellington St. Avenue ON			
60 Wellington St. Aurora. ON			
Judy Maclachlan- Dow Principal on Assignment			
905-294- Duration (months,			
3484   maximum 12 months)			
Fall Funding x Sept. 2016			
consideration Either			
End Date July 2017			

The new accessible park has been used all year round by students and neighbours of all ages for the last 6 years. Senior Citizens often use the trail to safely access shopping areas. (The neighbourhood has only 2 sidewalks.) Children use the paved trail to learn how to ride bikes, scooters etc. Families with children of all abilities can play with the City for three years.

The virtual tour would enable anyone who has access to a computer or screened device, to tour this specialized green space and learn more about it. For example, on their screen, people could choose a native plant material tour or design tour by "clicking" on a numbered feature outlined on the landscape plan. A photo would pop up with corresponding information about the native tree/shrub or design feature. An example has been linked to this application. A variety of native species have been planted, such as: Tulip, American Elm, Trembling Aspen, Basswood, Locust, Bur Oak, White Cedar, Serviceberry, Amur and Sugar Maples, Osier Dogwood, Nannyberry, etc. The Interactive Virtual Tour can be easily linked to the City website and "hits" on the tour can be counted to monitor its use. The virtual tour would have an educational focus, particularly around native plant material.

The purpose of the project is to create an Interactive Virtual Tour of the schoolyard, which is a specialized, accessible green space that features native plant material. Anyone who has use of a computer could choose to learn about plant material or learn more about the design features by clicking on numbered sites. See below for an example.

The Project Team has been working together for the last 7 years and is made up of parents, staff, neighbours and related professionals. The committee will work closely with Steve Carter and his professional photographer from madeyoulook.com who has recently done a similar arboretum virtual tour in Pickering. <a href="http://www.gotyoulooking.com/1amberlea/mht.html">http://www.gotyoulooking.com/1amberlea/mht.html</a> JRPS students would be providing the research on plant material/design as part of their science and media studies. This project would be an engaging and authentic opportunity for the students to learn more about the environment. People new to Markham would be able to learn about local fauna in a non-threatening way. The volunteer committee would coordinate efforts.

The plant material that would be described on the tour is well established, however, if anything should need replacing that would compromise the accuracy of the tour, JRPS School Council has funds set aside to replace plant material. YRDSB ultimately has the responsibility of the upkeep of the green space. Maintenance would not be needed on the actual virtual tour. The last phase of the project includes buying accessible playground equipment that would be indicated on the site map. The last section of the paved trail could also be mapped and labeled as future development. Once done, the map would not need regular updating.

We have 3 MESF signs on the school property already from your past support. The City/MESF logo could be included on the map used in the virtual tour. The virtual tour could be linked to appropriate City (and school) web sites. "Hits" on the site could be counted to measure the success of the project. Teachers could easily incorporate this learning resource to many curriculum expectations, including map reading and plant classification. We would promote the virtual tour through presentations, mentioning MESF support, at meetings such as the YRDSB Outdoor Education Advisory Committee or anywhere our group was invited. The City could replicate virtual tours to other public spaces once the waters were tested with the JRPS project.

We want the City to be able to showcase this innovative project and take your investment to a higher level of sustainability, so we are not applying for funding from other sources at this time for the virtual tour. We are, however, applying for funds to become an OPAL School (Outdoor Play and Learning) to get the most out of the naturalized loose parts play zone for our students.

Please also provide a cost summary including (please use attached budget forms on pages 4 and 5 to this application to provide details of the costs)

Total Project Cost \$5,000.00 Amount requested from the MESF \$5,000.00

Amount from other sources In-Kind support hours

## **BUDGET FORM – HUMAN RESOURCES (Volunteers)**

	Det	ails		
Service	Number of People	Estimated Time for Each hour)	In- Kind Value (in hours worked)	
(e.g.:Volunteer planters)	_10	10	100	
Student Researchers	27	10	270	
Committee Members	7	25	175	
Coordinators at school	2	50	100	
			W-7	
Total	36		545	

## **BUDGET FORM**

Materials, Supplies and Equipment	+		Cost				
Processor, Supplies and Equipment	·	# of units	Unit Cost \$	Total Cost \$	MESF	Other	
(e.g. Native seedlings)		500	1.00	500.00	200.00	300.00	
Steve Carter and his professional							
photographer from madeyoulook.com to						•	
produce the virtual tour to ensure a quali	ity .						
oroduct Karen Dobrucki, local Landscape Archite					\$2,500.00		
'Drawn from Nature" to update current	ect at	-					
andscape plan map and check for accur	racy						
n students' research	acy				\$2,500.00		
Transfer Toolsal of T		<u> </u>			Ψ2,300.00	·	
Thank you for thinking "outside the box"	in						
considering this project. Markham has a							
incredible, universally accessible public							
green space that more people should kn	ow			•			
about!							
JRPS needs the specific skill sets of the	se						
people in order to produce something the	at						
our students, staff, parents and the City	can						
be proud of.			-				
	•						
	•						
	<del></del>						
Other Expenses	<del></del>						
e.g. Printing Brochures)		100	0.50	50,00	25.00	25.00	
				·			
	Total				\$5,000.00	<del></del>	
How did you organization hear			,				
Markham Website Newspaper a	adverti	sement	_   Word of mo   (Originally)	outh X	Other	<u></u>	

Upon completion of this Project please submit your project report, as well as original invoices, photos and records to Manager, Waste and Environmental Management. 8100 Warden Avenue, Markham ON, L6G 1B4. Telephone 905-477-7000. Fax 905-479-7772. Photos may be posted on Markham's website.

## **Applicant's Signature**

I hereby make application for funding from the Markham Environmental Sustainability Fund, declaring that all information contained herein is true and correct and acknowledging that the City of Markham will assess this application based upon the information contained in this application.

If approved for funding I further acknowledge and agree:

- to comply with all relevant policies and secure all permits required for this project and acknowledge that the City bears no responsibility or has any liability in any manner with respect to this project.
- 2. that the City reserves the right to review communications and communication materials to be presented to the public to ensure compliance with City policies, including the City's Communication Standards.
- 3. to promote the Markham Environmental Sustainability Fund on any communication materials, or signage associated with this project and will provide a detailed report on the project outlining how the funds were used to support the project upon completion of the project and no later than 1 year from receipt of the funding.
- 4. to allow the City of Markham to use the project name and any images associated with the project to promote the Markham Environmental Sustainability Fund.
- 5. to return all unspent funds to the City of Markham upon completion of the project.
- 6. that there shall be no personal benefit directly, or indirectly, from this funding and I will notify the City of any conflict of interest situation should it arise in carrying out of the project.
- 7. that the City is not a partner with the MESF recipient.
- 8. to permit the City of Markham to claim ownership of greenhouse gas emission reductions, which resulted from the project.

signature Illa Tea Chry

Jeanthe Mellan

In the event the Registered Owner of the lands is an entity other than the City of Markham, a letter must accompany the application stating that: the Owner consents to this application; acknowledges that the proposed project complies to all its applicable policies and requirements; and, that the writer has the authority to give its consent.

Submission of this application form does not guarantee approval of your application.



## JAMES ROBINSON PUBLIC SCHOOL

90 Robinson Street, Markham, Ont. L3P 1N9 Tel: (905) 294-3484 Fax: (905) 294-4626

Sept. 16th, 2016

### To Whom It May Concern:

As Principal on Assignment at James Robinson Public School, I consent to this application and acknowledge that the proposed project, an interactive virtual tour of the accessible schoolyard, complies to all applicable policies and requirements.

I personally applaud the commitment of this group of volunteers who has over the years worked hard to build an inclusive outside environment for our community. Now, they strive to produce an innovative learning resource for students and all interested citizens of Markham.

Sincerely,

Judy Maclachlan- Dow

Principal on Assignment

James Robinson Public School

Maclacklan-Dow

#3

## **Application Form**

For Office Use Only - Project No.:

Name	The Living City Foundation - Toronto and Region Conservation Authority					
Address	5 Shoreham Drive, Downsview, Ontario, M3N 1S4					
Phone	416-661-6600	Fax				
Email	jjeffery@trca.on.ca	Website Address	www.trca.ca			
Charitable (if applical	/Non Profit Organization registration # ble)	Our Group has a organization	bank account in the name of our			
11903 9493 RR0001		Yes X	Yes X No			

Briefly describe what your group does:

The Living City Foundation (formerly The Conservation Foundation of Greater Toronto) exists to support the work of our partner Toronto and Region Conservation Authority (TRCA). Since its founding in April, 1961, the Foundation has raised over \$22 million for TRCA's projects.

TRCA offers knowledge and experience to help our partners contribute to a healthy city region. This includes ecology and the study of water quality, natural habitats, plants, animals and more to help us identify environmental needs, set targets, and restore natural areas; sustainable community development to advise partners about land use, development proposals and construction, and environmental education to help students and community members appreciate their local environment and learn to look after it.

<b>Projects Contact</b>	<b>S</b>			de la companya de la		
Name	Liana D'Andr	ea	Name	Joanne Jeffery		
Title	Community E	ngagement Coordinator	Title	Senior Manager, Education, Training & C		raining & Outre
Phone (work)	416-661-660	0 x5753	Phone (work)	416-661-6600 x5	638	
Phone (home)	647-401-737	7	Phone (home)	416-846-0074		
Email	ldandrea@tr	ca.on.ca	Email	jjeffery@trca.on.ca		
Project Summar	У					
Title Markham	's Pollinators:	Bees, Butterflies and Beyond				
Location of Project			Markham Museum, City of Markham			
Name of Regi	stered Owne	r of the Lands	City of Markhar	n		
Address of Re	Address of Registered Owner of the Lands			9350 Markham Rd Markham, ON L3P 3J3		
Contact Name	e for Register	ed Owner of the Lands				
Phone # Registered Owner of the Lands			Duration (mo maximum 12			
Request for		Spring Funding X	Fall Funding		Either	
Start Date of	Project Ap	ril 2017	End Date	December 2017	•	

Please describe which of the following objectives your project meets and how:

- The project provides demonstrable, widespread and lasting environmental benefits for the community;
- The project is a leading environmental innovation that can be showcased by the City of Markham;
- The project promotes education, understanding and participation in environmental sustainability in the City of Markham; and;
- The project supports the City's environmental policies and strategic plan.

See attached

Please provide a detailed description of your project in the following space. Please attach additional pages if necessary to fully explain your project. This description should include:

- Purpose for the project
- Description of the Project Team
- What will your project accomplish? (include workplan with timelines)
- Who will maintain and monitor the project after completion? (please provide contact information)
- What are the measurable benefits of this Project?
- How will you promote the MESF fund with this project?
- Describe other funding sources/in kind support
- How will the benefits to the environment and your community be maintained after your project has been completed?
- Will there be an educational sign component. If so, please describe

See attached

Please also provide a cost sum provide details of the costs)	mary including (please us	se attached budget forms on pages 4 and	5 to this application to
Total Project Cost	\$13,725	Amount requested from the MESF	\$8,200
Amount from other sources	\$5,525	In-Kind support hours	118 hours

## **BUDGET FORM – HUMAN RESOURCES (Volunteers)**

	Details			
Service	Number of People	Estimated Time for Each hour)	In- Kind Value (in hours worked)	
(e.g. Volunteer planters)	10	10	100	
See attached				
NAME OF THE PROPERTY OF THE PR			,	
	·			
Total		L		

### **BUDGET FORM**

Materials, Supplies and Equipment		Cost			
racerials, supplies and Equipment	# of units	Unit Cost \$	Total Cost \$	MESF	Other
e.g. Native seedlings)	500	1.00	500.00	200,00	300.00
-				-	
		,			
See attached					
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					1
	· · · · · · · · · · · · · · · · · · ·				
****					
Other Expenses		- <b>J</b>	1		
e.g. Printing Brochures)	100	0.50	50.00	25.00	25.00
Tota	ıl				
How did you organization hear abo		<del></del>			
Markham Website Newspaper adve	rtisement	_   Word of mou	ıth	Other	
Jpon completion of this Project please subr	nit vour project	renort as well a	s original invoic	oc photoc and	l rocordo to
Manager, Environmental Policy & Program (	Development. Ci	tv of Markham	3 Oligiliai irivoid 101 Town Centi	es, priotos and re Boulevard N	i recorus lo Markham
Ontario, L3R 9W3. Telephone 905-415-750		.,		- boundfully I	·

## **Applicant's Signature**

I hereby make application for funding from the Markham Environmental Sustainability Fund, declaring that all information contained herein is true and correct and acknowledging that the City of Markham will assess this application based upon the information contained in this application.

If approved for funding I further acknowledge and agree:

- to comply with all relevant policies and secure all permits required for this project and acknowledge that the City bears no responsibility or has any liability in any manner with respect to this project.
- that the City reserves the right to review communications and communication materials to be presented to the public to ensure compliance with City policies, including the City's Communication Standards.
- 3. to promote the Markham Environmental Sustainability Fund on any communication materials, or signage associated with this project and will provide a detailed report on the project outlining how the funds were used to support the project upon completion of the project and no later than 1 year from receipt of the funding.
- to allow the City of Markham to use the project name and any images associated with the project to promote the Markham Environmental Sustainability Fund.
- 5. to return all unspent funds to the City of Markham upon completion of the project.
- that there shall be no personal benefit directly, or indirectly, from this funding and I will notify the City of any conflict of interest situation should it arise in carrying out of the project.
- 7. that the City is not a partner with the MESF recipient.
- to permit the City of Markham to claim ownership of greenhouse gas emission reductions, which resulted from the project.

Signature ,,	7	11	/) Title
Signature	/ <u>/</u>	I has	iki

Senior Manager, Corporate Secretariat

Printed Name

Date

Kathy Stranks

March 30, 3017

In the event the Registered Owner of the lands is an entity other than the City of Markham, a letter must accompany the application stating that: the Owner consents to this application; acknowledges that the proposed project complies to all its applicable policies and requirements; and, that the writer has the authority to give its consent.

Submission of this application form does not guarantee approval of your application.

Personal information contained herein is subject to the Municipal Freedom of Information Act and the Personal Protection and Electronic Documents Act. The information collected may be used for promotional purposes. Completion of this form constitutes consent by the applicant to these terms and uses.

OFFICE USE ONLY						
Date Application Received			New Applicant?	Yes	No	
Approved/Not Approved	Yes	No				
Acknowledgement Letter Sent?	Yes	No	Date Sent			
Letter of Approval or Rejection Sent?	Yes	No	Date Sent			
Final Report Received?	Yes	No	Date Received			
Photos Received?	Yes	No	Date Received			
Consent for Photographs received	Yes	No	Photos posted on website?	Yes	No	

#### **Group Information**

Name: The Living City Foundation - Toronto and Region Conservation

Address: 5 Shoreham Drive, Toronto, Ontario, M3N 1S4

Phone: 416-661-6600 e-mail: jjeffery@trca.on.ca Website Address: www.trca.ca

#### **Project Summary**

Title: Markham's Pollinators: Bees, Butterflies and Beyond

Location of Project: Markham Museum

## Please describe which of the following objectives your project meets and how:

# st The project provides demonstrable, widespread and lasting environmental benefits for the community;

The project will help raise awareness of Markham's pollinators through a guided seniors program and the development of educational signage and gardening factsheets. Seniors from the Markham community will be engaged in an indoor presentation and outdoor event at the Markham Museum to learn about pollinators and their habitat needs. Seniors will experience the cognitive benefits of being outdoors, socializing with others and learning new concepts. Participants will help increase pollinator habitat in Markham by planting native wildflowers and starting native wildflower seeds to take home. A bee habitat box will be installed to provide nesting sites for native bees. The box will be complemented by an interpretive sign to teach future visitors of the Museum about native bees. Display boards about pollinators and native wildflowers will be developed to support Markham Museum education programs in the Honey House. Pollinator factsheets will be developed and printed for City of Markham staff to distribute across Markham through outreach events and programs. Factsheets will focus on gardening for pollinators, including bees, butterflies and birds. The lasting environmental benefit for the community is the protection of Markham's pollinators that play an important role in ecosystem health and food production.

# \* The project promotes education, understanding and participation in environmental sustainability in the City of Markham; and;

The project will introduce seniors to local pollinators and their habitat needs through discussion and handson activities. Seniors will plant native wildflowers, start native wildflower seeds to take home and tour the Markham Museum's new Honey House. The installation of a bee habitat box and interpretive sign, along with display boards for the Honey House will educate future visitors to the Museum. The development and distribution of pollinator gardening factsheets will help encourage the community to create pollinator habitat in their own backyards.

## \* The project supports the City's environmental policies and strategic plan.

This project supports Markham's declaration in 2016 to become a Monarch-Friendly City, and the move to include all pollinators. The project will help protect the natural environment and increase biodiversity in the City of Markham by creating habitat for local pollinators and educating residents about pollinators and their

habitat. It supports the strategic priority to protect the natural environment in *Building Markham's Future Together* (2007). It also aligns with Markham's *Greenprint Sustainability Plan* by supporting the objective to *Increase Biodiversity* under the priority of *Ecosystem Integrity*.

## Please provide a detailed description of your project in the following space. Please attach additional pages if necessary to fully explain your project.

#### \* Purpose for the project

The purpose of this project is to:

- 1. Increase awareness of Markham's pollinators and grow pollinator habitat in Markham.
- 2. Engage seniors in outdoor learning and socialization.
- 3. Develop pollinator education resources for the Markham Museum.
- 4. Create pollinator habitat at the Markham Museum.

#### \* Description of the Project Team

TRCA Roles & Responsibilities

- Coordinate garden features and outdoor event:
  - Work with staff at Markham Museum to choose location of raised beds, wildflower species, and location of bee habitat box.
  - Create event agenda and communicate logistics to seniors and Museum staff.
  - Order and coordinate delivery of all materials.
- Deliver introductory pollinator presentation for seniors.
- Coordinate print material:
  - Design and develop content for bee gardening factsheet, bee sign and education display boards.
  - Work with staff at Markham Museum to choose location of bee sign.

Markham Museum Roles & Responsibilities

- Meet with TRCA staff to choose location for raised beds, bee habitat box and bee sign.
- Assist with logistics for outdoor event (i.e. reserving space, leading tour of Honey House).

#### \* What will your project accomplish? (include workplan with timelines)

Through this project we will:

- 1. Deliver an indoor presentation to introduce seniors to pollinators and their habitat needs.
- Deliver an outdoor event at the Markham Museum for seniors to take-part in hands on activities, including planting native wildflowers, starting native wildflower seeds and touring the Museum's Honey House.
- 3. Develop and print pollinator factsheets for City of Markham staff to distribute across Markham through outreach events.
- 4. Install a bee habitat box and interpretive sign about native bees.
- 5. Develop educational displays to support Markham Museum programs in the Honey House.

Timeline	Work Activity
April (Project approval)	<ul> <li>Meet with Markham Museum staff to determine:</li> <li>Location of native wildflower planting</li> <li>Pollinator education activities for the event</li> </ul>
	Select dates for outdoor event     Politon indoor procentation for outline.
<u> </u>	Deliver indoor presentation for seniors
May	Order plants and organize logistics for outdoor event
June	Deliver outdoor event for seniors
July – August	<ul> <li>Develop content for gardening factsheet, sign and displays</li> <li>Order bee box</li> </ul>
September	Install interpretive sign and bee box
-	Print gardening factsheets and displays
December	Write final report and submit it within one year from the date the funding was received

## \* Who will maintain and monitor the project after completion? (please provide contact information)

Native wildflowers planted will be maintained by the Markham Museum staff and volunteers that maintain the existing gardens. The bee habitat box and signage will be maintained by Markham Museum staff.

#### \* What are the measurable benefits of this Project?

- The number of seniors participating in the indoor presentation.
- The number of seniors participating in the outdoor event at the Museum.
- Qualitative feedback received in event surveys following the presentation.
- The number of wildflowers planted at the Markham Museum.
- The number of factsheets printed for Markham residents.

#### \* How will you promote the MESF fund with this project?

- The City of Markham logo will be included on all print material.
- MESF support will be verbally acknowledged at the presentation and event.
- An MESF sign can be displayed at the events.

#### \* Describe other funding sources/in kind support

In-kind contributions from the TRCA Community Engagement staff are supported by funding from York Region.

## \* How will the benefits to the environment and your community be maintained after your project has been completed?

The native wildflowers at the Markham Museum will support local pollinators and help enhance Markham's biodiversity. Native wildflowers will be watered by Markham Museum staff and volunteers that maintain the existing gardens. The bee habitat box will provide habitat for native bees and will be maintained by Markham Museum staff. The interpretive sign and education display boards will also be maintained by Markham Museum staff. Pollinator factsheets will be printed and distributed by City of Markham and TRCA staff at outreach events, and will be available online for public download.

#### \* Will there be an educational sign component. If so, please describe

An interpretive sign about native bees and their habitat will be created to accompany the native bee habitat box installed as part of the project.

**Budget Form – Human Resources (Volunteers)** 

Service	D	etails	In-Kind Value
	Number of People	Estimated time for each (hours)	(in hours worked)*
Choose pollinator plants and order all materials	1	7	7
Organize materials, equipment and logistics for events	1	35	35
Support delivery of outdoor event	1	6	6
Print material design	1	20	20
Develop content for factsheet, display and sign	1	50	50
Total			118

<sup>\*</sup>This value is also represented as a monetary contribution in the TRCA in-kind column in the Budget Form below.

**Budget Form** 

Materials,		Cost			
Supplies, Equipment	# of units	Unit Cost \$	Total Cost \$	MESF	In-kind
Garden features				Established	
Plants	100	\$5	\$500	\$500	
Soil	8 bags	\$6	\$48	\$48	
Gravel	8 bags	\$6	\$48	\$48	
Ergonomic tools	7	\$17	\$118	\$118	
Watering can	2	\$10	\$20	\$20	
Bee habitat box & post	1	\$400	\$400	\$400	
Choose pollinator plants and order all materials	7hrs	\$46/hr (coordinator)	\$322		\$322
Seniors events					
Refreshments	40	\$2	\$80	\$80	
Bus	1	\$250	\$250	\$250	
Organize material, equipment and logistics	35hrs	\$46/hr (coordinator)	\$1,610		\$1,610
Deliver indoor presentation	7hrs	\$46/hr (coordinator)	\$322	\$322	

Deliver outdoor event	· 9hrs	\$46/hr (coordinator)	\$414	\$414	
Support delivery of outdoor event	6hrs	\$62/hr (supervisor)	\$372		\$372
Travel costs	750km	\$0.60	\$450	\$450	
Print material and signage					
Design factsheet, displays & sign	20hrs	\$50/hr	\$920		\$920
Develop content for factsheet, displays & sign	100hrs	\$46/hr (coordinator)	\$4,600	\$2,300	\$2,300
Print factsheets	4000	\$0.30	\$1,200	\$1,200	
Print displays	4	\$15	\$60	\$60	
Print and install sign	1	\$2,000	\$2,000	\$2,000	
Total			\$13,725	\$8,200	\$5,525

App		ca	ti	on	Fo	rm
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For Office Use Only - Project N

r				office ode Offiy - Project No.:
Group Infori	nation		1.3.38	
Name	Ontario Streams			
Address	50 Bloomington Road West; Aurora, ON; La	4C 01 0		
Phone	(905) 713-7399			
Email	heather.wilton@ontariostreams.on.ca	Fax (905) 713-7361		
Charitable/No	on Profit Organization registration #	Website Addr		www.ontariostreams.on.ca
(ii applicable	)	Our Group ha	is a b	ank account in the name of our
89664 4374 F	RP0001	organization		
		Yes ✓	ħI.o.	
		100	No	
Briefly descri	be what your group does:			
Established in	1995 Ontorio Strongeria			
and wetlands	n 1995, Ontario Streams is a non-profit orga of Ontario through education and communi	nization whose m	nissio	is to protect and rehabilitate the streams
habitats incre	of Ontario through education and communication amongst individuals an	ty action. Our obj	ective	es are to rehabilitate degraded aquatic
and act as a c	ease communication amongst individuals an catalyst to empower communities in conservations.	nd organizations i	nvolve	ed in conserving aquatic environments
provision of re	catalyst to empower communities in conservesources.	ing their local en	vironr	ment through partnership building and the
,	,			, saming and and
Projects Conta	ets			
Name	Heather Wilton		100	
Title	Project Biologist	Name		oug Forder
Phone (work)	905 713 7399	Title	Re	estoration Ecologist
Phone (home)		Phone (work)		5 713 7399
Email		Phone (home)		5 993 1658
Project Summa	heather.wilton@ontariostreams.on.ca	Email	do	ug.forder@ontariostreams.on.ca
Title		Markham Stre	am F	Rehabilitation Project
Location of F	Project	Robinson Creek	Gem	nan Mills Creek, Berczy Creek
Name of Reg	istered Owner of the Lands	Corporation o	f the	Dity of Markham
Address of R	egistered Owner of the Lands	101 Town Co.	oten D	Dity of Markham
Contact Nam	e for Registered Owner of the Lands	City of Madub	nue B	oulevard, Markham, ON, L3R 9W3
		City of Markha	-	
Phone # Reg	istered Owner of the Lands	*FORMANA AND AND AND AND AND AND AND AND AND	[	Duration (months,
Request for	Spring Funding X	Fall Funding	<u> </u>	maximum 12 monuis)
Start Date of	Project 04/01/2017			Either 🗌
		End Date	103/	31/2018
lease describ	e which of the following abiant			

vhich of the following objectives your project meets and how:

- The project provides demonstrable, widespread and lasting environmental benefits for the community;
- The project is a leading environmental innovation that can be showcased by the City of Markham;
- The project promotes education, understanding and participation in environmental sustainability in the City of
- The project supports the City's environmental policies and strategic plan.

Please see attachment (Appendix 1)

Please provide a detailed description of your project in the following space. Please attach additional pages if necessary to fully explain your project. This description should include:

- · Purpose for the project
- Description of the Project Team
- What will your project accomplish? (include workplan with timelines)
- Who will maintain and monitor the project after completion? (please provide contact information)
- What are the measurable benefits of this Project?
- How will you promote the MESF fund with this project?
- Describe other funding sources/in kind support
- How will the benefits to the environment and your community be maintained after your project has been completed?
- Will there be an educational sign component. If so, please describe

Please	see	Attachment	(Appendix	1)

Please also provide a cost sun provide details of the costs)	nmary including (please use	e attached budget forms on pages 4 an	d 5 to this application to
Total Project Cost	\$28,999.50	Amount requested from the MESF	\$5,190.50
Amount from other sources	\$23,809.00	In-Kind support hours	230

## **BUDGET FORM**

Materials, Supplies and Equipment		Cost				
Materials, Supplies and Equipment	# of units	Unit Cost \$	Total Cost \$	MESF	Other	
(e.g. Native seedlings)	500	1.00	500,00	200.00	300.00	
Native trees and shrubs	235	9.50	2232.5	2,232.50		
Mulch mats	200	0.75	150	150.00		
Chest waders	9	85.00	765	340.00	425.00	
Work gloves (per pack)	3	22.00	66	44.00	22.00	
Cedar logs	10	11.50	115	115.00		
Earth anchors, T-bars, landscape staples	125	10.00	1250	1,250.00		
Cable and cable crimps	1	78.00	78	78.00		
Coir matting	2	90.00	180	180.00	<del></del>	
Grass seed	1	45.00	45	45.00		
Contractor garbage bags	3	30.00	90	90.00		
Health and safety (suncreen, first aid)	1	66.00	66	66.00		
Volunteer refeshments	4	50.00	200	200.00		
Chainsaw operation and maintenance	1	200.00	100	100.00	100.00	
Shovels	5	20.00	100	100.00	<u> </u>	
Misc. OS tools and equipment (saw, sledge)	2	225.00	450	200.00	250.00	
Ontario streams trailer use	2	100.00	100		200.00	
					TATALAN COLOR	

Other Expenses

(e.g. Printing Brochures)	100	0.50	50.00	25,00	25.00
HR - Restoration Ecologist (days)	10	384.00	3,840.00		3,840.00
HR - Project Biologist (days)	31	200.00	6,200.00		6,200.00
HR - Habitat Technician- 4x13/hr (days)	16	390.00	6,240.00		6,240.00
Mileage and vehicle maintenance	1	704.00	704.00		704.00
Portion of annual admin costs	1	1,297.00	1,297.00		1,297.00
OMNRF Stewardship Rangers	1	1,000.00	1,000.00		1,000.00
OMNRF Biologist	1	656.00	656.00	<u> </u>	656.00
Total	666	5,673.75	26,124.50	5,190.50	20,934.00

How did you organiz	ation hear about the MESF?	(Please check one)	
Markham Website	Newspaper advertisement	Word of mouth	Other
Manager, Waste and Envi	Project please submit your project n Ironmental Management. 8100 War 772. Photos may be posted on Mar	den Avenue, Markham ON,	voices, photos and records L6G 1B4. Telephone 905-

## **Applicant's Signature**

I hereby make application for funding from the Markham Environmental Sustainability Fund, declaring that all information contained herein is true and correct and acknowledging that the City of Markham will assess this application based upon the information contained in this application.

If approved for funding I further acknowledge and agree:

- 1. to comply with all relevant policies and secure all permits required for this project and acknowledge that the City bears no responsibility or has any liability in any manner with respect to this project.
- that the City reserves the right to review communications and communication materials to be presented to the public to ensure compliance with City policies, including the City's Communication Standards.
- 3. to promote the Markham Environmental Sustainability Fund on any communication materials, or signage associated with this project and will provide a detailed report on the project outlining how the funds were used to support the project upon completion of the project and no later than 1 year from receipt of the funding.
- 4. to allow the City of Markham to use the project name and any images associated with the project to promote the Markham Environmental Sustainability Fund.
- 5. to return all unspent funds to the City of Markham upon completion of the project.
- that there shall be no personal benefit directly, or indirectly, from this funding and I will notify the City of any conflict of interest situation should it arise in carrying out of the project.
- 7. that the City is not a partner with the MESF recipient.
- 8. to permit the City of Markham to claim ownership of greenhouse gas emission reductions, which resulted from the project.

Signature Sleathaller	Title	Project Biologist
Printed Name Heather Wilton	Date	feb 14 2017

In the event the Registered Owner of the lands is an entity other than the City of Markham, a letter must accompany the application stating that: the Owner consents to this application; acknowledges that the proposed project complies to all its applicable policies and requirements; and, that the writer has the authority to give its consent.

Submission of this application form does not guarantee approval of your application.

Personal Information contained herein is subject to the Municipal Freedom of Information Act and the Personal Protection and Electronic Documents Act. The information collected may be used for promotional purposes. Completion of this form constitutes consent by the applicant to these terms and uses.

OFFICE USE ONLY							
Date Application Received			New Applicant?	Yes	No		
Approved/Not Approved	Yes	No					
Acknowledgement Letter Sent?	Yes	No	Date Sent				
Letter of Approval or Rejection Sent?	Yes	No	Date Sent				
Final Report Received?	Yes	No	Date Received				
Photos Received?	Yes	No	Date Received				
Consent for Photographs received	Yes	No	Photos posted on website?	Yes	No		

# Markham Environmental Sustainability Fund

## Photo Consent and Release Form

1,	hereby permit and authorize the
(Print in full – first, middle initial & last name)	mereoy permit and admonte the
City of Markham (the "City") to take my photograph/image.	

I acknowledge and agree that the City may publish or use the image for any City purposes by any means whatsoever including, but not limited to electronic or digital means. I acknowledge that the City may not be able to control the distribution or use of the image by other than City representatives.

I agree that this Consent and Release is given in perpetuity and for no consideration, credit, acknowledgment or financial recompense, now and in the future.

I hereby hold the City harmless for any claims, actions, debts, damages, injuries or losses that may arise or be incurred as a result of the taking, use, publication or distribution of the image and I agree to indemnify the City against any third party claims, actions, damages, injuries or losses brought or assessed against or incurred by the City for the use of the image(s).

		Conta	ct Infoi	rmation		
Signature		Date				
Address						
City		Prov	ince		Postal Code	
Telephone				Email		
City of Markh	am;					
City Repres	sentative	Da	ite			

#### Appendix 1: The Markham Stream Rehabilitation Project

#### Please describe which of the following objectives your project meets and how:

The project provides demonstrable, widespread and lasting environmental benefits for the community

The Markham Stream Rehabilitation Project aims to rehabilitate degraded sections of Don River and Rouge River tributaries within the City of Markham; Robinson Creek, German Mills creek, and Berczy Creek. The rapid development of the City of Markham has left all three creeks suffering from degraded natural habitat with garbage and debris build-up, bank erosion leading to increased sediment input, and a lack of native riparian plants. Robinson and Berczy Creeks are both home to Redside Dace, an endangered minnow that relies on clean water and native vegetation overhanging banks for cover. This project will enhance the habitat value of all three creeks for native plants and wildlife, with a focus on Redside Dace habitat rehabilitation in Robinson Creek and Berczy Creek.

This goal will be accomplished through the removal of riparian and in-stream garbage and debris at the sites, installation of in-stream habitat enhancement structures, and planting of native trees and shrubs. Removal of garbage and debris at all three sites will eliminate local hazards and the input of material and sediment into the streams. The construction of habitat enhancement structures will improve in-stream habitat and cover for fish, reduce the erosive force of storm water and prevent further erosive damage downstream. Native tree and shrub planting will create lasting environmental benefits by reducing stream temperature through the provision of shade, reducing soil loss on the stream banks, increasing bank stability, and creating cover and terrestrial habitat.

The habitat enhancement structures used will provide conditions to allow for newly planted vegetation to take root and further stabilize heavily eroded stream banks. This project will have impacts on the environment as habitat restoration efforts will see improvements to biodiversity, water quality, wildlife habitat, and air quality; the initiative will positively affect fish and wildlife habitat and contribute to healthier Don River and Rouge River watersheds and Lake Ontario.

- The project is a leading environmental innovation that can be showcased by the City of Markham N/A
- The project promotes education, understanding and participation in environmental sustainability in the City of Markham

One of the primary objectives of Ontario Streams is to empower communities in conserving their local environment. As such, Ontario Streams encourages volunteer involvement in all appropriate components of a project. Robison Creek and German Mills are both locations that have been adopted by an Ontario Streams Adopt-A-Stream community group within Markham. Milliken Mills High School and Hindu Swayamsevak Sangh community group will both be volunteering their time

to help with the clean up and rehabilitation efforts at these sites. Volunteer participation and environmental education in a local setting allows volunteers to learn about their local natural environment and the actions they can take to protect and restore it. Ontario Streams believes that local involvement in environmental initiatives is imperative, as we need to see a change in human attitudes and behavior to prevent future loss of habitat and biodiversity.

## The project supports the City's environmental policies and strategic plan

The City of Markham's sustainability plan, the Greenprint, identifies several sustainability priorities; one of these priorities is Ecosystem Integrity. Three main objectives fall under Ecosystem Integrity: increasing biodiversity, increasing tree canopy and vegetation coverage to 30%, and developing and supporting wildlife habitat. The project proposed by Ontario Streams will work towards each of these three objectives, through several of the implementation recommendations identified in the Greenprint. This project will work towards the restoration of the Rouge and Don watersheds, involving planting of native trees and shrubs throughout the riparian area at the sites. This project will also work towards enhancing stream and surrounding riparian habitat to support endangered Redside Dace and other native wildlife.

This project also supports the priority of Social Equity, specifically the objective of greater resident involvement in community stewardship. Community volunteers will be involved in stream rehabilitation efforts as well as tree and shrub planting, providing a valuable hands-on educational experience in a local setting. This gives Markham residents a strong sense of place and value by helping to naturalize an area within their own city.

Lastly, the Markham Stream Rehabilitation Project also supports the City of Markham's 2015-2019 Strategic Plan "Safe and Sustainable Communities" goals. Specifically, the goal to protect and respect the natural environment.

Please provide a detailed description of your project in the following space. Please attach additional pages if necessary to fully explain your project. This description should include:

#### Purpose for the project

The purpose of this project is to rehabilitate and enhance in-stream and riparian habitat within German Mills Creek, a tributary of the Don River, and Robinson Creek and Berczy Creek, tributaries of the Rouge River. Within Robinson and Berczy creeks, this project will improve habitat for the Redside Dace, an endangered fish species that currently occupies these streams. This goal will be achieved through the implementation of various rehabilitation projects, including riparian regeneration, bank stabilization, and in-stream habitat enhancement.



Figure 1. The site at Robinson Creek near the intersection of, Bullock Drive and Main Street North, is a recently decommissioned anline pond. Cantinuing restoration at this site by the Milliken Mills High School will include the removal of riparian and instream garbage and debris, native shrub planting and the installation of habitat enhancement structures. This Robinson Creek site is 300m in length in total.

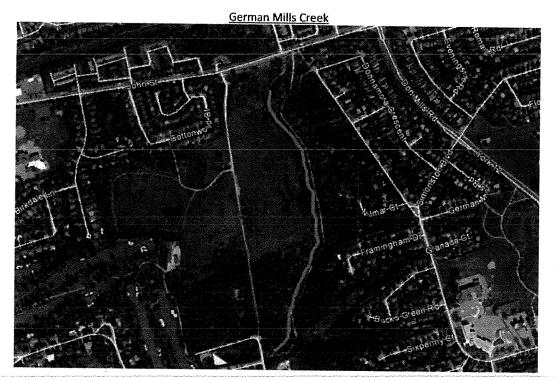


Figure 2. The site at German Mills Creek near the intersection of John Street and Don Mills Road has been adopted by the Hindu Swayamsevak Sangh Adopt-A-Stream group. Restoration efforts for 2017-2018 include, the removal of riparian and in-stream garbage and debris, native tree and shrub planting, and the installation of habitat enhancement structures. This German Mills Creek site is 885m in length in total.

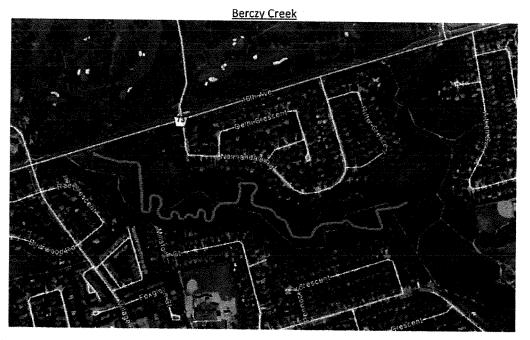


Figure 3 The Berczy Creek site near the intersection of 16<sup>th</sup> Avenue and Village Parkway; 2017-2018 plans for this site include the removal of riparian and in-stream gorbage and debris, native shrub planting, and the installation of habitat enhancement structures. This Berczy Creek site is 1,535m in length in total.

#### Description of the Project Team

The Project Team involved in the Markham Stream Rehabilitation Project will include one Restoration Ecologist, 1-2 Project Biologists, 4 Habitat Technicians, and approximately 25 community volunteers.

The Restoration Ecologist will be responsible for project guidance and field support as required during this project. One Project Biologist will be responsible for all project planning and implementation, fundraising, and reporting; 1-2 Project Biologists will also be responsible for implementing the project and supervising all on-the-ground work completed by Habitat Technicians and community volunteers. Habitat Technicians are university and college students or recent graduates working with Ontario Streams for the summer field season; they will assist with the implementation of on-the-ground work at the project site. Community volunteers will take part in garbage clean up, tree planting, and habitat enhancement activities within the Adopt-A-Stream sites of Robinson Creek and German Mills Creek. It is anticipated that there will be a total of 230 volunteer hours of work completed at these sites.

What will your project accomplish? (include workplan with timelines)

The Markham Stream Rehabilitation Project will involve the rehabilitation of three separate sites within Markham. The details of work to be done at each site are broken down below:

#### Robinson Creek

- Riparian and in-stream garbage and debris removal
- Instream habitat enhancement structures
- Riparian plantings to stabilize the bank and provide erosion protection

#### German Mills Creek

- Riparian and in-stream garbage and debris removal
- Instream habitat enhancement structures
- Riparian plantings to stabilize the bank and provide erosion protection

#### Berczy Creek

- Riparian and in-stream garbage and debris removal
- Instream habitat enhancement structures
- Riparian plantings to stabilize the regraded bank and provide erosion protection

This project will take place from April 1, 2017 to March 31, 2018. Work at these three site locations will follow the same general timeline:

#### April - June 2017

- Finalization of necessary permits, if not completed
- Native tree and shrub planting with Adopt-A-Stream volunteers
- Collection of riparian and in-stream garbage and debris

#### July - September 2017

• Begin installation of in-stream habitat enhancement structures with Adopt-A-Stream volunteers and Ontario Streams crew

#### October - December 2017

Native tree and shrub planning with Adopt-A-Stream volunteers

#### January - March 2017

- Project reporting
- Who will maintain and monitor the project after completion? (please provide contact information)

The project will be monitored and maintained by Ontario Streams and Adopt-A-Stream volunteers for a minimum of three years following project completion. The site will be assessed annually to monitor plant survival and in-stream habitat enhancement structure success.

Ontario Streams can be contacted by phone at (905) 713-7399, and by email at doug.forder@ontariostreams.on.ca.

What are the measurable benefits of this Project?

Environmental benefits and successes will be measured in a number of ways. Quantifiable measurements of success will include:

- · the length of stream restored
- the number of native trees and shrubs planted
- number of in-stream habitat enhancement structures installed
- amount of garbage removed
- number of debris blockages removed
- number of volunteers involved
- volunteer hours donated to the project

Although the above measurements indicate restoration work completed, true indications of success are determined through ongoing monitoring of rehabilitation sites. Any necessary physical (stream channel structure), chemical (pH, turbidity, nutrient levels), and biological (benthic macroinvertebrate and fish communities) parameters will be measured at the site; this same information will be collected 2-3 years following restoration work to assess improvements to water quality and the presence and/or return of sensitive indicator fish species, thereby indicating improvements to ecosystem health.

How will you promote the MESF fund with this project?

Ontario Streams will recognize the Markham Environmental Sustainability Fund in the list of supporters in our annual newsletter, on the Ontario Streams website, and in presentations at our Annual General Meeting. An announcement of successful funding will also be made to our volunteers and followers on social media (Facebook and Twitter). All volunteers participating in

the Markham Stream Rehabilitation Project will be made aware of project support over the course of their involvement in the project.

Describe other funding sources/in kind support

Funding Source	Value of Cash Support	Value of In-Kind Support	Status
Private Foundation Donation	\$11,973		Pending
York Region: Greening Strategy Partnership Program	\$6,308		Pending
Ontario Ministry of Natural Resources and Forestry		\$1,656	Confirmed
Ontario Streams		\$997	Confirmed
Volunteers		\$2,875	Anticipated
Total Matching Funds	\$18,281.00	\$5,528.00	

How will the benefits to the environment and your community be maintained after your project has been completed?

The project will be monitored by Ontario Streams and community volunteers for a minimum of three years following project completion. The site will be assessed annually to monitor plant survival and bank stabilization structure longevity; physical, chemical, and biological parameters will also be measured at the site in the 2-3 years following restoration work to monitor for changes in any of these parameters. Maintenance will be completed on the bank protection and stabilization structure on an as-needed basis. Further planting may be conducted in future years to continue to improve biodiversity and habitat, as space permits.

The projects of the Markham Stream Rehabilitation Project are being undertaken to improve biodiversity, water quality, wildlife habitat, and air quality, contributing to a healthier watershed and local environment.

Will there be an educational sign component? If so, please describe.

There are plans to, with the participation of the City of Markham, install signage at Adopt-A-Stream locations indicating the name of the community group who adopted that site and thanking the funding sponsors of the project. This signage would apply to the Robinson Creek and German Mills Creek locations.

App	lica	tion	Form
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For Office Use Only - Project No.:

Group Inform	ation			Astins Comment More market and the second	
2014-09-04-03-03-03-03-03-03-03-03-03-03-03-03-03-	St. Michael Acedemy School		e a la companya di santana di san	and the second s	
	11 Simonston Blvd.				
	0058894816	Fax			
	ob.hanimyan@gmail.com				
Charitable/No	on Profit Organization registration #	Website Address	sml.ycdsb.ca		
(if applicable)	registration #	Our Group has a organization	bank account in	the name of our	
, , ,	i	Organización			
		Yes 🗸 N	lo		
Briefly describ	e what your group does:				
Kindergarten t In addition, St. Program (ERA	a Catholic School where students' spiritual de stent with Ministry curriculum requirements at o Grade 8 acedemic curriculum.  Michael Catholic Academy in Thornhill is horn AP), and provides an enriched arts program wir skills, discover their passion and expand this	me to the York Catl	e school offers a	complete Full-Day mentary Regional Arts	
Projects Contac	Robert Hanimyan		No transcriptores		
Name	Robert Hanimyan	Name S	Susan MacDonal	[d	
Title	Parent - Chair Schoolyard Greening Cmte		Principal		
Phone (work)	416-882-5284		905-889-4816		
Phone (home)	905-832-8845	Phone (home)	700 000 4010		
Email	rob.hanimyan@gmail.com		susan.macdonald	d@yedeb ee	
Project Summa	ÿ.		, acammidodonaic		
Title					
Location of F	Project	St. Michael Acedemy School - Schoolyard Greening 41 Simonston Blvd.			
Name of Reg	istered Owner of the Lands	THE CHARLEST BIV	<u>u.</u>		
Address of R	egistered Owner of the Lands			· · · · · · · · · · · · · · · · · · ·	
Contact Nam	e for Registered Owner of the Lands				
	g		Duration (		
Phone # Reg	istered Owner of the Lands		Duration (mo maximum 12		
Doguest for					
Request for	Spring Funding X	Fall Funding	maximum 12		
Start Date of	Spring Funding X	Fall Funding End Date	Maximum 12	Either	

of the following objectives your project meets and how:

- The project provides demonstrable, widespread and lasting environmental benefits for the community;
- The project is a leading environmental innovation that can be showcased by the City of Markham;
- The project promotes education, understanding and participation in environmental sustainability in the City of Markham; and;
- The project supports the City's environmental policies and strategic plan.

Creating two outdoor classrooms will improve city tree health, and increase student knowledge, awarenss and experience of the natural environment and recognition of their role as environmental stewards. It will greatly increase opportunities for learning, not only about the envirnment, but also in the environment. The addition of mulch under the existing honey locust trees will improve the health of the existing trees, while the planting of three new trees will create new shade in the schoolyard, and establish space for passive play. Supporting Markham's monarch initiative to become a "Monarch-Friendly City," butterfly imagery is planned to be included in the seating area of the cookseating of the outdoorclass room.

Please provide a detailed description of your project in the following space. Please attach additional pages if necessary to fully explain your project. This description should include:

- ❖ Purpose for the project
- Description of the Project Team
- ❖ What will your project accomplish? (include workplan with timelines)
- \* Who will maintain and monitor the project after completion? (please provide contact information)
- What are the measurable benefits of this Project?
- . How will you promote the MESF fund with this project?
- Describe other funding sources/in kind support
- How will the benefits to the environment and your community be maintained after your project has been completed?
- ❖ Will there be an educational sign component. If so, please describe

With St. Michael Catholic Academy School responsible for the project, York Catholic School Board personnel Larry Tadman from Environmental Services, and Evergreen School Design Consultant Daniel Waters, have been consulted regarding plans for creating outdoor learning spaces, and for developing the long term plan for schoolyard greening. See documents "StMichael\_ClassroomDesigns.pdf" and StMichaelAcademy\_Masterplan.pdf).

Our vision is to create an environment that promotes active and passive learning through interaction with the outdoors, while also adding more shade to our schoolyard. Our project will provide new shade in an otherwise shade-less playground and provide teachers with space to bring classes outside.

The Catholic School Council is involved in the project planning, with Students and Staff involvided in spreading the mulch and tree care. The Community will be involved during recognition event(s) following installation, that would include recognition of the MESF funding provided, highlighting the butterfly imagery built into the new space in support of Markham's monarch initiative to become "Monarch-Friendly"

Outdoor Classroom 1: Located under four existing HoenyLocust Trees that are located just North of the playground area. This area uses existing shade to create a comfortable micro-climate. Proposed moveable log seating will allow students and teachers to configure the classroom area as required, and allow seating to be installed without disturbing tree root systems. Locating the classroom under existing tree canopy also encourages the installation of mulch surfacing that will prevent further soil compaction in the tree protection zone.

Outdoor Classrom 2: Will be buit into an existing berm near the entryway to the school. The design will enable the planting of three new native trees, with tree cages for protection, to create shade. Armour stone seating will be installed as per Evergreen detail (see attached .pdf designs).

A grant Application has also been submitted (Feb 10) to Toyota-Evergreen (max amount \$3,500). We are awaiting response.

Also see attachement: "Site Management Plan"

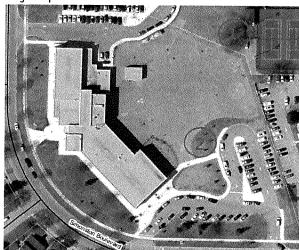
Please also provide a cost summary including (please use attached budget forms on pages 4 and 5 to this application to provide details of the costs)						
Total Project Cost	13,900.00	Amount requested from the MESF	10,400 Site #1 \$2.300 Site #2 \$ 5.000	o 4°		
Amount from other sources	3,500 (Pending confirmation)	In-Kind support hours	6			
		and a specific action to the specific and a second action to the specific specific specific action as a second	//	TV		

## **BUDGET FORM - HUMAN RESOURCES (Volunteers)**

	Det	ails		
Service	Number of People	Estimated Time for Each hour)	In- Kind Value (in hours worked)	
(e.g. Volunteer planters)	10	10	100	
			0	
			0	
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			0	
Total	0	0	0	

Option C: Shared Cost of the Armour Stone		Cost				
Materials, Supplies and Equipment	# of units	Unit Cost \$	Total Cost \$	MESF	Other (Toyota Evergreen)	School Parent Council
Phase 1						
Site 1: Seating logs - movable log cookie seats	30	50	1500	1500		
Site 1: Mulch	20	40	800	800		
TOTAL Phase 1			\$ 2,300.00	\$ 2,300.00	\$ -	
Phase 1						
Site 2: Trees 75mm caliper as per Evergreen	3	750	2250	1200	1050	
Site 2: Tree Cages as per Evergreen	3	200	600	600		
Site 2: Armour Stone with 200mm crushed rock	16	350	5600	3200		2400
Site 1& 2: Mulch (y3)	24	40	950	0	950	
TOTAL Phase 2			\$ 9,400.00	\$ 5,000.00	\$ 2,000.00	\$ 2,400.00

#### Key Map



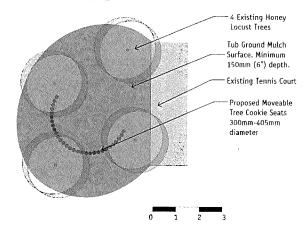
#### Outdoor Classroom Projects

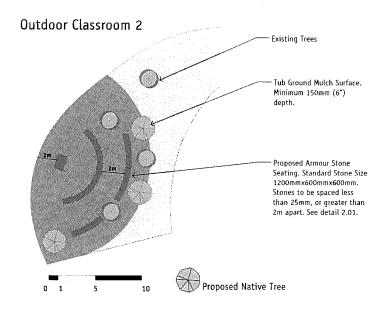
St. Michael Academy is currently looking to install 2 outdoor classroom areas for elementary school students. The focus for the project is to increase environmental stewardship through increased outdoor learning opportunities. These designs will be the first stages of a longterm master plan for the schoolyard.

Outdoor Classroom 1 is located under 4 existing Honey Locust Trees that are located just North of the playground area. This area will be a great location for an outdoor classroom as it uses existing shade to create a comfortable micro-climate. Proposed moveable log seating will allow s tudents and teachers to configure the classroom area as required, and will allow seating to be installed without disturbing tree root systems. Locating the classroom under existing tree canopy also encourages the installation of mulch surfacing that will prevent further soil compaction in the tree protection zone.

Outdoor Classroom 2 will be built into an existing berm near the entry way to the school. The design will enable the planting of 3 new native trees with tree cages to create shade and will use armour stone seating installed as per Evergreen detail 2.01.

#### Outdoor Classroom 1





SCHOOL NAME AND PROJECT

St. Michael Academy Outdoor Classrooms

CONCEPTUAL DESIGN BY



TOYOTA . EVERGREEN
LEARNING GROUNDS
Daniel Waters, BLA

PARTNER(S)



York Region

DISCLAIMER NOT

THIS CONCEPT IS FOR DISCUSSION PURPOSES ONLY.
DO NOT CONSTRUCT FROM THIS DOCUMENT.

NOTES

Design to be constructed as per Evergreen Details:

1.01 - Deciduous Tree Planting

1.2 - Tree Cage

2.01 - Armour Stone Seating

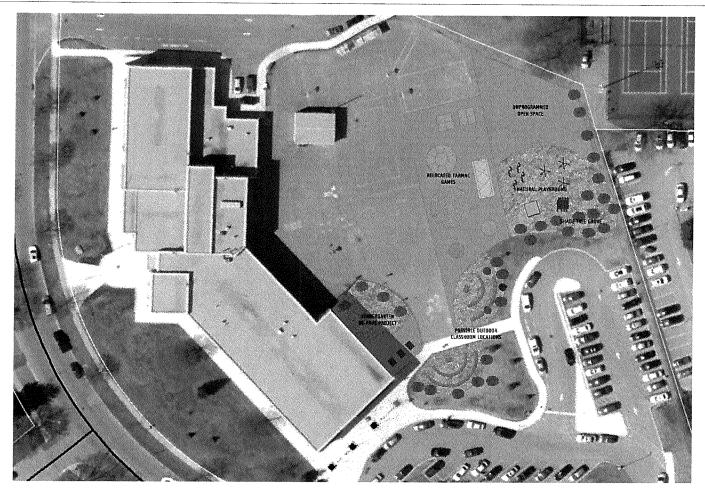
REVISIONS

NORTH

DATE 2017.01.07

SCALE

NTS



#### Project Description:

Project Description:
The conceptual Matter Pain Motores the potential future of St. Michael Catholic Academy's school yaid. The teng term goal for the site is to increase out surfaces and maximize shade coverage on the playground. The Master Pain includes a number of programmatic elements include:

A modified surface natural playground with juminity logs, teeper shade structures, and sain box. Unprogrammed Open Space for James and Sports.

Relocated training against for create halines between sports and creative jumes on hards surface.

Outdoor classroom space.
De payed findergramen play area with intreased shade coverage and loosely structured play spaces.

Project Phasing:
This design is intended to provide a framework for future school ground improvement projects. The design is anticipated to develop as more detailed mout is included from students, teachers, and improve natural play, it input is included from students, teachers, and inspired assums Jaly. It is recommended that future phases involve student consultation and participation to encourage project success and student ownership of space. This matter plan should be constructed in the following phases:

1) forthoric classificial. This project will be the feast expensive, and will make significant impart to all students in the school as they are provided with a new page to learn in;

2) Kindesgaren De pave. This project will provide Kindergaren students with increase abase, a soft fall surface, and matural play area. Kindergarten De pave projects are also noted to make schools incre stracture for prospective students.

3) Playground De pave. This phase should be the final strage of this material plan. The decidad design phase of this project should involve students as much as possible to provide program elements that interest them.

- that interest them.

#### **Example Project Images**















SCHOOL NAME AND PROJECT

#### School Ground Master Plan

St. Michael Academy 41 Simonston Blvd, Markham, ON L3T 4R6

CONCEPTUAL DESIGN BY



Daniel Waters, School Ground Design Consultant

PARTNER(S)



York Region

THIS CONCEPT IS FOR DISCUSSION PURPOSES ONLY. DO NOT CONSTRUCT FROM THIS DOCUMENT.

Notes

REVISIONS

January 13, 2017



## **Applicant's Signature**

I hereby make application for funding from the Markham Environmental Sustainability Fund, declaring that all information contained herein is true and correct and acknowledging that the City of Markham will assess this application based upon the information contained in this application.

If approved for funding I further acknowledge and agree:

- to comply with all relevant policies and secure all permits required for this project and acknowledge that the City bears no responsibility or has any liability in any manner with respect to this project.
- that the City reserves the right to review communications and communication materials to be presented to the public to ensure compliance with City policies, including the City's Communication Standards.
- to promote the Markham Environmental Sustainability Fund on any communication materials, or signage
  associated with this project and will provide a detailed report on the project outlining how the funds were used
  to support the project upon completion of the project and no later than 1 year from receipt of the funding.
- to allow the City of Markham to use the project name and any images associated with the project to promote the Markham Environmental Sustainability Fund.
- 5. to return all unspent funds to the City of Markham upon completion of the project.
- that there shall be no personal benefit directly, or indirectly, from this funding and I will notify the City of any conflict of interest situation should it arise in carrying out of the project.
- 7. that the City is not a partner with the MESF recipient.
- 8. to permit the City of Markham to claim ownership of greenhouse gas emission reductions, which resulted from the project.

Signature	HAMMIN	Title Parent - Chair Schoolyard Green	ing Cmte
Printed Nam Robert Ha		Date / 4/17	45-
		/	

In the event the Registered Owner of the lands is an entity other than the City  $\frac{1}{2}$  Markh $\frac{1}{2}$ m, a letter must accompany the application stating that: the Owner consents to this application; acknowledges that the proposed project complies to all its applicable policies and requirements; and, that the writer has the authority to give its consent.

Submission of this application form does not guarantee approval of your application.

Personal information contained herein is subject to the Municipal Freedom of Information Act and the Personal Protection and Electronic Documents Act. The information collected may be used for promotional purposes. Completion of this form constitutes consent by the applicant to these terms and uses.

OFFICE USE ONLY					
Date Application Received			New Applicant?	Yes	No
Approved/Not Approved	Yes	No			
Acknowledgement Letter Sent?	Yes	No	Date Sent		
Letter of Approval or Rejection Sent?	Yes	No	Date Sent		
Final Report Received?	Yes	No	Date Received		
Photos Received?	Yes	No	Date Received		
Consent for Photographs received	Yes	No	Photos posted on website?	Yes	No

## **BUDGET FORM**

Materials, Supplies and Equipment		Cost	<u> </u>		
riateriais, supplies and Equipment	# of units	Unit Cost \$	Total Cost \$	MESF	Other
(e.g. Native seedlings)	500	1.00	500.00	200.00	300.00
Site 1: Mulch (m3)	6 .	100.00	600		600.00
ite1: Seating Logs -Movable Log Cookie Seats	30	50.00	1500		1,500.00
Site 2: Trees 75mm caliper as per Evergreen	3	700.00	2100	2,100.00	
Site 2: Tree Cages as per Evergreen	3	300.00	900	900.00	
Site 2: Mulch (m3)	24	100.00	2400	1,000.00	1,400.00
ite 2: Armour Stone with 200mm cruched rock	16	400.00	6400	6,400.00	
			0		
			0		
	44 (44 A 44 A 44 A 44 A 44 A 44 A 44 A		0		
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			0		
Other Expenses					
(e.g. Printing Brochures)	100	0.50	50.00	25.00	25.00
			0.00		
			0.00		
			0.00		
			0.00		
			0.00		
			0.00		
			0.00		
Total	82	1,650.00	13,900.00	10,400.00	3,500.00
How did you organization hear abou	t the MESF	? (Please check	one)		
Markham Website Newspaper adverti	sement	Word of mo	outh 🗸	Other	
Upon completion of this Project please submit Manager, Waste and Environmental Manager 477-7000. Fax 905-479-7772. Photos may be	nent. 8100 Wa	arden Avenue, N	Markham ON, L60		

# Markham Environmental Sustainability Fund

## Photo Consent and Release Form

I,	Robert Hanimyan	herehv	nermit and	authorize the
	(Print in full – first, middle initial & last name)	_ //C/CD)	perime and	authorize the
Ci	ty of Markham (the "City") to take my photograph/image.			

I acknowledge and agree that the City may publish or use the image for any City purposes by any means whatsoever including, but not limited to electronic or digital means. I acknowledge that the City may not be able to control the distribution or use of the image by other than City representatives.

I agree that this Consent and Release is given in perpetuity and for no consideration, credit, acknowledgment or financial recompense, now and in the future.

I hereby hold the City harmless for any claims, actions, debts, damages, injuries or losses that may arise or be incurred as a result of the taking, use, publication or distribution of the image and I agree to indemnify the City against any third party claims, actions, damages, injuries or losses brought or assessed against or incurred by the City for the use of the image(s).

Contact Information									
Signature	Date   Feb 16, 2017								
Address	41 Simonston Blvd.								
City	Thornhill	Province	ON		Postal Code	L3T 4R6			
Telephone	416-882-5284			Email	rob.hanimyan@gmail.com				
City of Marki	ham:		<u></u>						
City Repre	esentative	Date			-				



#### **EDUCATION CENTRE - AURORA**

60 Wellington Street West, Box 40 Aurora, Ontario L4G 3H2

**Tel**: 905.727.3141 905.895.7216 905.722.3201 416.969.8131 **Fax**: 905.727.0775 **Website**: www.yrdsb.edu.on.ca

#### **VIA EMAIL**

June 15, 2017

Larry Tadman
Controller of Environmental Services
Catholic Education Centre
320 Bloomington Rd West, Aurora
L4G 1K0

Dear Mr. Tadman:

Re: Construction of Outdoor Classroom on York Region District School Board Property at German Mills Public School - 61 Simonston Boulevard, Markham

We have reviewed your request for the construction of an outdoor classroom on a portion of Board property at German Mills Public School currently used by students of St. Michael's Academy for outdoor play.

We have no objections and are in support of the proposed construction and maintenance of an outdoor classroom by the York Catholic District School Board on the subject lands. It is acknowledged that when not in use by St. Michael's Academy, use of the outdoor classroom by German Mills Public School students will be permitted.

We request that a copy of the detailed design including construction management plan be provided for review and comment by our Plant Services department before being finalized and that we are apprised of the chosen contractor due to the works occurring on YRDSB lands.

If further information or clarification is required, please contact this office.

Yours truly,

Gilbert Luk

Associate Manager

Planning & Property Development Services