



101 Town Centre Boulevard,  
Markham, Ontario, L3R 9W3

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

## What is the MESF?

The MESF is a Town 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 Town'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, etc.

Multi-jurisdictional groups, such as NGOs, or other organizations may be considered if there are clearly demonstrable benefits in the Town 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.

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 Town of Markham;
- the project promotes education, understanding and participation in environmental sustainability in the Town of Markham; and,
- the project supports the Town'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 Town of Markham and initiated by members of the Town of Markham Community, or Town of Markham 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 funding 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 initiatives
- clean air awareness activities and initiatives
- water management promotion
- green roof promotion and implementation
- downspout disconnection/rain barrel program
- wildlife habitat 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 of Environmental Leadership.

## How Do I apply?

- Step 1** Carefully review these guidelines to ensure your group is eligible.
- Step 2** Speak with the Manager of Environmental Leadership 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 make a decision.
- Step 4** Submit your application to the Manager, Environmental Leadership, Town of Markham, Ontario, L3R 9W3. Telephone 905-415-7502, Fax 905-475-4710.

## Application Checklist

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

- 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 Town (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



101 Town Centre Boulevard,  
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# Markham Environmental Sustainability Fund Internal Guide and Application Form

## ATTACHMENT 2

### What is the MESF?

The MESF is a Town 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 Town's natural resources. The purpose of the fund is to provide demonstrable, widespread and lasting environmental benefits to the Markham community.

### Who Can Apply?

Town of Markham staff or member of Markham Council.

### 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 Town of Markham;
- the project promotes education, understanding and participation in environmental sustainability in the Town of Markham; and,
- the project supports the Town'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 Internal Funding Criteria for an Application?

- Projects must be within the Town of Markham, initiated by Town of Markham staff or members of Council
- Applicants must only be applying for one year at a time, although the project may be phased
- Materials and equipment costs will be a priority for funding from the MESF, however, other costs may be eligible and will be determined on an individual project basis
- The project must have widespread, lasting environmental benefits for the community
- The project promotes environmental sustainability
- The project promotes understanding and participation in environmental sustainability in the Town of Markham
- The project will have measurable results
- Records are to be kept with respect to the project and a report is to be prepared upon completion of the project and submitted to the Environmental Issues Committee for their records
- The project is consistent with the Town of Markham's objectives
- The project promotes the Town of Markham and the Town of Markham's commitment to environmental sustainability
- Funding is intended for projects that would not normally be considered as part of a department's budget
- 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 initiatives
- clean air awareness activities and initiatives
- water management promotion
- green roof promotion and implementation
- downspout disconnection/rain barrel program

- wildlife habitat 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 of Environmental Leadership.

### How Do I apply?

- Step 1 **Speak with the Manager of Environmental Leadership** about your proposed application;
- Step 2 **Complete the Application Form.** Please ensure that it is legible and signed.
- 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 for the Environmental Issues Committee to make a decision.
- Step 4 **Submit your application** to the Manager, Environmental Leadership, Town of Markham, Ontario, L3R 9W3. Telephone 905-415-7502, Fax 905-475-4710.

### Application Checklist

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

- A complete application form, signed by Department Head, including all budget and funding details
- All supporting documentation

### What will happen next?

The Environmental Issues Committee will review all applications taking into account the established objectives and criteria described above. 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?

You will be contacted by the Manager of Environmental Leadership following Council's decision.

### 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 summary and photos so we can review and promote your project.

### 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

# ATTACHMENT 3

## MESF Application Form

Title	Protecting Markham's Biodiversity
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### Group Information

Name	North American Native Plant Society (NANPS)		
Address	Box 34, Station D, Etobicoke, ON, M9A 4X1		
Phone	416 631 4438 (voice mail)	Fax	
Email	nanps@nanps.org	Website Address	www.nanps.org
Charitable/Non Profit Organization registration # (if applicable)	Our Group has a bank account in the name of our organization Yes <input checked="" type="checkbox"/> X No <input type="checkbox"/>		
# 130720824 RR0001			

Briefly describe what your group does:

The North American Native Plant Society (NANPS) is dedicated to the study, conservation, cultivation, and restoration of North American's native flora. We are approaching our 25<sup>th</sup> Anniversary.

Events around the GTA include hosting of workshops, seminars, organizing excursions, Speakers Series (last year's events were held at the TBG), an AGM with awards and speakers, a Native Plant Sale, a Seed Exchange, participation in various shows (e.g. Guelph Organic Conference, Green Living Show). Our Blazing Star is published quarterly and sent out to members; a number of libraries throughout North America subscribe to this as well.

### Projects/Contacts

Name	Miriam Henriques	Name	Colleen Cirillo
Title	Co President, NANPS	Title	Stewardship Program Coordinator, TRCA
Phone (work)	416 395 8847	Phone (work)	416-661-6600, ext. 5338
Phone (home)	416 225 0741	Phone (home)	416-530-0582
Email	mch@rhen.com	Email	ccirillo@trca.on.ca

### Project Summary

Location of Project	Markham		
Name of Registered Owner of the Lands	N/A		
Address of Registered Owner of the Lands	N/A		
Contact Name for Registered Owner of Lands	N/A		
Phone # Registered Owner of the Lands	N/A	Duration	9 months
Request for	Spring Funding <input type="checkbox"/>	Fall Funding <input checked="" type="checkbox"/> X	Either <input type="checkbox"/>
Start Date	February 2010	End Date	October 2010

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 Town of Markham;
- ✧ The project promotes education, understanding and participation in environmental sustainability in the Town of Markham; and;
- ✧ The project supports the Town's environmental policies and strategic plan.

The program will increase awareness of invasive species that overtake natural habitats. By informing and giving people the knowledge and tools to remove invasive plants and plant native plants in their place will have lasting environmental benefits by protecting greenspaces, both on private and public lands.

To the best of our knowledge, this program will be the first of its kind in York Region, and the introduction and use of the weeding tool will increase awareness for landowners of tools available to help manage their properties.

The program is highly educational, and the workshops and active invasive species pull events will encourage participation.

The program is very much in keeping with the Town's policies to preserve and enhance greenspaces.

This project builds upon the well-established partnership among North American Native Plant Society (NANPS), Toronto and Region Conservation (TRCA), the Grandview Area Ratepayers Association (GARA), and the Town of Markham. It meets the objectives listed, with a special focus on education. A series of diverse events will inform town staff and residents about invasive plants, and engage them in invasive species management and native habitat restoration.

**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**

Invasive plants are non native introduced species that are grow aggressively and will overtake areas, especially natural areas, displacing native plants. This decreases the biodiversity, and threatens habitats, which in turn depletes homes and food supplies for wildlife.

Invasive plants such as garlic mustard, European buckthorn and dog-strangling vine (DSV) are well-established in many of Markham's parks and natural areas. More recently, giant hogweed has been discovered which has sap that can cause severe skin irritations and temporary or permanent blindness. Educating residents to recognize, report and avoid hogweed is important from a public safety perspective.

In addition, some common horticultural plants including Norway maple, periwinkle and goutweed are invading natural areas, out-competing native plants. This project will raise awareness of invasive plant species in gardens, parks and natural areas, and increase participation in invasive species management and native habitat restoration.

### **Project Team**

NANPS volunteers and TRCA staff will coordinate this project with much staff and in-kind assistance from the Town of Markham and the Grandview Ratepayers Association. Additional volunteer groups and non-profit organizations will be invited to participate, along with the general public. York Region and the Ontario Invasive Plant Council (OIPC) will also be informed of this project and invited to contribute in various ways.

### **Project Accomplishments (with Work Plan and Timeline)**

Expert speakers and event facilitators will be hired to help the team deliver six diverse events, to be held at various town facilities from February to October, 2010. A working timeline is presented below:

## **TIMELINE (2010) & WORKPLAN**

### **February**

Training session for Town of Markham, TRCA and York Region (approximately 50 participants)

University of Waterloo Professor Stephen Murphy will share his research findings two decades of restoration. Special attention will be paid to the management of invasive plants that occur in Markham. – *date to be confirmed*

### **March**

Inspirational talk for Markham residents

Suggest Martin Galloway of Chalk River Nursery and Home and Garden TV to present on sustainable horticulture in his trademark whimsical yet practical way – *to be confirmed*.

First 25 people to sign in will receive \$5 Native Plant Vouchers to be redeemed at the May 8th Native Plant Sale

### **April (Saturday)**

Native Plant Garden Design Workshop with landscape architect

A certified landscape architect with extensive native plant knowledge and experience will work with homeowners to develop realistic garden designs (with plant lists, timelines and supply lists) for their front yards. – *to be confirmed*

Participants will bring yard measurements and photos for consultation purposes  
We are proposing 2 separate workshops (AM and PM) with up to 15 - 20 participants each.

### May – Native Plant Sale

Saturday, May 8 – Native Plant Sale at the Markham Civic Centre

Goal is to

- create public education and awareness
- increase the availability of ethically and locally grown indigenous native plants for local gardeners

Hundreds of people are expected to attend this event (based on past events). Indigenous native plants grown by local nurseries are made available. Event details are organized by the NANPS Plant Sale Committee (planning starts in December '09). Hundreds of volunteer hours are donated for the before sale setup, the sale itself, as well as the final wrap up. (Usually 50 to 60 NANPS members are involved for this particular event.)

Speaker to focus on the use of native plants in an urban garden, identifying invasive plants, and general management strategies – *speaker to be confirmed*

"Ask Me" experts" – Landscape Design students are to be invited in as the experts to assist answering general questions - *to be confirmed*

Display materials are to be used to highlight invasive plant species and their recommended alternatives, as well as habitat creation strategies.

### May 22 - Restoration Events

Goal is to

- celebrate the UN International Day for Biological Diversity
- increase public awareness and empower active involvement
- focus on identifying and removing selected invasive plant species
- employ weed pulling tools to remove Buckthorn

The public will be invited to participate in hands on organized events at two locations

- The Charlie Clifford Memorial Park (focus on garlic mustard, DSV, periwinkle) – supported by NANPS volunteers and organizers
- The Grandview Park woodlot (focus on European Buckthorn) – supported by Grandview Area Ratepayers Association volunteers

### October

NANPS AGM at Markham at Civic Centre

Speaker(s) to address the creation and restoration of native plant habitats in urban areas

Suggest Lorraine Johnson and / or Ken Parker - *to be confirmed*

### Additional expenses

#### Educational Materials (handouts, displays)

Design and printing of information sheets and coloured brochures  
Displays (educational information boards, pop up display)

#### **NOTE:**

The brochures will have clear, high quality, coloured photos with user friendly explanation and descriptions.

Printed materials will be available (until they run out) as handouts both during and after this project for TRCA, NANPS, Grandview, and the Town of Markham events. Display materials created for project events will continue to be available for educational purposes after project is completed.

#### **Signage**

The partners are proposing temporary signs for the two work day sites, and 50 small garden plaques for gardeners who attend at least one of the events and who grow native plants.

Stoneware plaques are being considered as they are more durable, better looking and sustainable.

#### **Promotional Expenses**

Flyers, handouts, newspaper ads

#### **Event space** (Markham)

#### **Materials** (wood mulch, gloves, bags)

### In-kind Support

NANPS, TRCA and the Town of Markham are providing substantial in-kind support, including staff time, extensive volunteer hours, venues for events, and advertising work. The Grandview Ratepayers Association and other members of the public will provide ideas, expertise and physical assistance on the spring work day. In kind NANPS' support for the Plant Sale includes event expenses as well as hundreds of organized volunteer hours.

### **Maintenance and Monitoring after Completion**

Invasive species will be monitored and maintained at the Charlie Clifford Memorial Park by NANPS and Grandview Park woodlot by the Grandview Area Ratepayers Association. TRCA will assist with long-term management of invasive species through native replacement plantings and native plant gardening workshops.

### **Measurable Benefits**

Measurable benefits include the removal of invasive plants from parks and private properties and the installation of native plant habitats. Important outcomes include additional invasive species management training for parks staff and volunteers, and increased awareness of invasive species and native plant communities among town staff and residents.

The project's success will be determined in part by the number of participants at events and the feedback that these people provide at and after events. Distribution of individual smaller signs would continue to promote awareness and indicate recognition of native plant habitats.

#### **MESF Promotion**

MESF will be acknowledged on all communication pieces (newspaper ads, posters and brochures), and will be thanked verbally at events.

#### **Maintenance of Project Benefits**

Gardens and lawns will be maintained by the property owners, with continued support provided by TRCA as requested. As mentioned, participants will be better informed and aware of local resources and therefore more self-sufficient. The benefits of a more informed and engaged community, and of more water-wise, wildlife-friendly gardens in private yards throughout the town will last – and multiply – well into the future.

Please also provide a cost summary including (please use attached budget forms)			
Total Project Cost	<b>\$16,900</b>	Amount requested from the MESF	<b>\$10,000</b>
Amount from other sources	<b>\$6900</b>	In- Kind support hours	<b>300 hours</b>



A77: MAC.S URQUHART  
 ENVIRONMENTAL LEADERSHIP  
 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 Town 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 Town bears no responsibility or has any liability in any manner with respect to this project.
2. that the Town reserves the right to review communications and communication materials to be presented to the public to ensure compliance with Town policies, including the Town'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 Town 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 Town 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 Town of any conflict of interest situation should it arise in carrying out of the project.
7. that the Town is not a partner with the MESF recipient.
8. to permit the Town of Markham to claim ownership of greenhouse gas emission reductions, which resulted from the project.

Signature

Title

Henriques - NANPS (Co President)

Printed Name

Date

MIRIAM HENRIQUES - SEPT 22 '09

In the event the Registered Owner of the lands is an entity other than the Town 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?	
Approved/Not Approved	Yes No		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

## Protecting Markham's Biodiversity Project Budget

### February Training Session for Practitioners

Expense	MESF	In-Kind
Speaker	\$500.00	
Refreshments	\$125.00	
Handouts	\$50.00	
Venue		\$500.00 town
<b>Total</b>	<b>\$675.00</b>	

### March Inspirational Speaker for General Public

Expense	MESF	In-Kind
Speaker	\$250.00	
Refreshments	\$75.00	
Venue		\$500.00 town
Promotion		\$500.00 town
Vouchers	\$125.00	
<b>Total</b>	<b>\$450.00</b>	

### April Garden Design Workshops (morning and afternoon session)

#### **Revenue**

Registration Fee*	\$400.00
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Expense	MESF	In-Kind
Facilitator	\$500.00	
Refreshments	\$50.00	
Handouts	\$50.00	
Venue		\$500.00 town
Promotion		\$500.00 town
Plant Vouchers**	\$400.00	
Materials and Supplies	\$100.00	
<b>Total (Expenditures - Revenue)</b>	<b>\$700.00</b>	

\* A registration fee will encourage people who register to actually attend.

\*\* Participants will receive a \$10 voucher for plant material at the NANPS sale.

### May NANPS Plant Sale and Speaker Series

Expense	MESF	In-Kind
Speaker	\$200.00	
Refreshments	\$100.00	
Venue		\$500.00 town
Promotion		\$700.00 town and TRCA
Tables	\$500.00	
Plant Delivery	\$1,000.00	
<b>Total</b>	<b>\$1,000.00</b>	

**May Public Involvement Day (two sites)**

<b>Expense</b>	<b>MESF</b>	<b>In-Kind</b>
Refreshments	\$100.00	
Promotion		\$1,000.00 town
Materials and Supplies*	\$300.00	\$200.00 town
Temporary Signs	\$160.00	
<b>Total</b>	<b>\$560.00</b>	

\* The Town of Markham will supply garbage bags, gloves and mulch.

\* We will purchase 2 weed wrenches

**October NANPS AGM**

<b>Expense</b>	<b>MESF</b>	<b>In-Kind</b>
Speaker	\$500.00	
Refreshments	\$100.00	
Venue		\$500.00 town
Promotion		\$500.00 town and TRCA
Additional Event Costs	\$200.00	
<b>Total</b>	<b>\$300.00</b>	

**Event Expenses Total** **\$4,985.00**

**Additional Expenses**

	<b>MESF</b>	<b>In-Kind</b>
Native Plant Garden Plaques (50)	\$500.00	
Display Material	\$1,000.00	
Educational Material	\$3,515.00	\$1,000.00 TRCA
<b>Total</b>	<b>\$5,015.00</b>	

\* Plaques will be given to event participants with native plants in their front yards.

\* Educational Material includes coloured brochures

	<b>MESF</b>	<b>In-Kind*</b>
<b>Total Expenses</b>	<b>\$10,000.00</b>	<b>\$6,900.00</b>

\* This in-kind contribution is for space, newspaper ads and some event supplies.  
The most significant in-kind contribution to this project is the 800 hours devoted by NANPS and community volunteers as well as town and TRCA employees.

**Total MESF Request** **\$10,000.00**

## Application Form

For Office Use Only - Project No.:

## Group Information

Name	Stonebridge P.S. (Miss C. Webb / Mrs M. Daryanani)		
Address	168 Stonebridge Dr. Markham		
Phone	905-887-2427	Fax	
Email	taylorson@rogers.com	Website Address	
Charitable/Non Profit Organization registration # (if applicable)	Our Group has a bank account in the name of our organization Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		

Briefly describe what your group does:

Our team consists of fifty grade one and grade six students and two teachers. Our classes have worked together on many activities. Stonebridge P.S. is a school in Markham with a population of 813 students.

## Project Contacts

Name	Charlene Webb	Name	Mavis Daryanani
Title	Grade 1 teacher	Title	Grade 6 teacher
Phone (work)	905-887-2427	Phone (work)	905-887-2427
Phone (home)	905-888-7440	Phone (home)	
Email	taylorson@rogers.com	Email	mavis.daryanani@yrdsb.edu.on.ca

## Project Summary

Title	Native Plants Sign and Poster		
Location of Project	Park at Wilfred Morrison and Stonebridge Dr.		
Name of Registered Owner of the Lands	Town of Markham		
Address of Registered Owner of the Lands			
Contact Name for Registered Owner of the Lands			
Phone # Registered Owner of the Lands		Duration (months, maximum 12 months)	Completed Spring 2010
Request for	Spring Funding <input type="checkbox"/>	Fall Funding <input checked="" type="checkbox"/>	Either <input type="checkbox"/>
Start Date of Project	Sept 2009	End Date	May 2010

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 Town of Markham;
- ❖ The project promotes education, understanding and participation in environmental sustainability in the Town of Markham; and;
- ❖ The project supports the Town's environmental policies and strategic plan.

This project supports and promotes education, understanding and participation in environmental sustainability because it provides information about native plants to local community members who use this park on a daily basis. Students will be engaged in the addition of native plants to the ecosystem. Posters will be distributed through the local library system to increase awareness of native plants in Markham.

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

*Purpose of the Project.*

The purpose of our project would be to increase the biodiversity in the habitat around our school by adding a selection of native plants. We want to provide information about these native plants by installing a sign and creating a poster. The poster will be distributed throughout the library system and among families in our school community.

*Description of the Project Team:*

Our team consists of 50 students from grade one and grade six and two teachers.

*What will our Project accomplish?*

Our project will add native plants to a park adjacent to an elementary school in Markham. It will provide information about these plants to the community and students at Stonebridge P.S.

*Who will maintain and monitor the project after completion?*

Native plants require no maintenance and will be planted in places where there will be no trampling or digging. The sign is a permanent structure.

*Measurable Benefits/ Educational Sign Component*

This project will restore the natural habitat and help to rebalance the ecosystem in the area. Over time, it will increase the awareness of native plants in Markham.

The educational sign and poster component will identify six native plants that will be found in the park.

The park is relatively new, having been established approximately four years ago.

Note: We will need an area to be mowed/cleared of weeds so that digging and planting can be done easily by the students.

The MESF fund will be identified on the poster and sign.

*Other Funding Sources*

We are applying for funding for soil from Home Depot and for some support from McDonalds. We are not sure if we will be granted any support at this time.

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	\$5000.00 +	Amount requested from the MESF	\$5000.00
Amount from other sources	TBA (amount for soil)	In- Kind support hours	170 hours

### BUDGET FORM - HUMAN RESOURCES (Volunteers)

[illegible]

# BUDGET FORM

[illegible]

## 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 Town 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 Town bears no responsibility or has any liability in any manner with respect to this project.
2. that the Town reserves the right to review communications and communication materials to be presented to the public to ensure compliance with Town policies, including the Town'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 Town 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 Town 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 Town of any conflict of interest situation should it arise in carrying out of the project.
7. that the Town is not a partner with the MESF recipient.
8. to permit the Town of Markham to claim ownership of greenhouse gas emission reductions, which resulted from the project.

Signature Charlene Webb Title Grade one teacher / Mavis Daryanani Grade six teacher

Printed Name Charlene Webb Date Mavis Daryanani Sept 11/09

*In the event the Registered Owner of the lands is an entity other than the Town 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

I, \_\_\_\_\_ hereby permit and authorize the  
(Print in full – first, middle initial & last name)  
 Town of Markham (the "Town") to take my photograph/image.

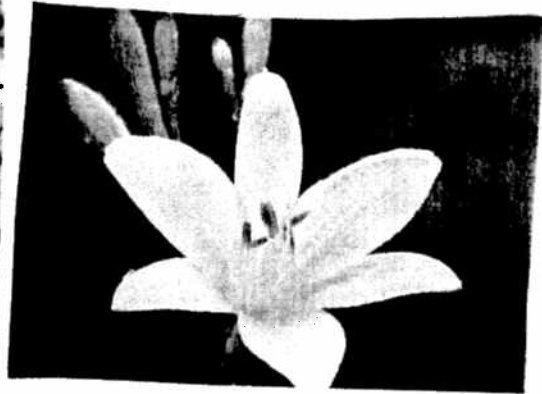
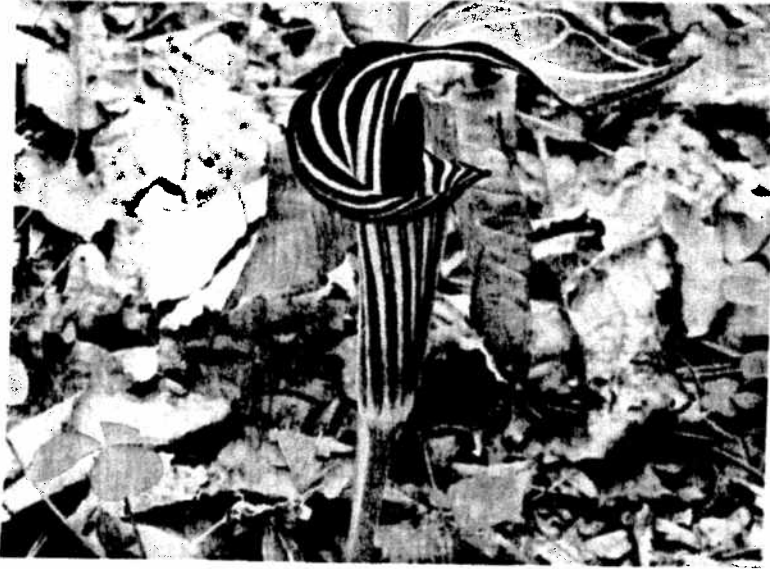
I acknowledge and agree that the Town may publish or use the image for any Town purposes by any means whatsoever including, but not limited to electronic or digital means. I acknowledge that the Town may not be able to control the distribution or use of the image by other than Town representatives.

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 Town 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 Town against any third party claims, actions, damages, injuries or losses brought or assessed against or incurred by the Town for the use of the image(s).

Contact Information				
Signature	Charlotte Welt	Date	Sept 11/09	
Address	W. 168 Stonebridge Dr. Markham / Home 199 The Bridle Walk.			
Town	Markham	Province	On	Postal Code
Telephone	905-887-2427	Email	taylorson@rogers.com	
Town of Markham:				
Town Representative		Date		

Sample of Poster size and a few  
types of native plants.



## Application Form

For Office Use Only - Project No.:

## Group Information

Name	EcoWatch Canada Corporation		
Address	45 REFLECTION ROAD		
Phone	(416) 271-3384	Fax	
Email	CARMEN-NA @ ecowatch Canada.org	Website Address	www.ecowatch Canada.org
Charitable/Non Profit Organization registration # (if applicable)	Our Group has a bank account in the name of our organization Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		

Briefly describe what your group does:

We focus on promoting environmental awareness within the town of Markham through education program, to lead in the town of Markham & becomes the First Green Focused Community across Canada.

## Project Contacts

Name	Carmen Ng	Name	Billy Yip
Title	Executive Director	Title	President
Phone (work)	(416) 271-3384	Phone (work)	(416) 520-8330
Phone (home)		Phone (home)	
Email	carmen.ng @ ecowatch Canada.org	Email	billy @ goodyip.com

## Project Summary

Title			
Location of Project			
Markham			
Name of Registered Owner of the Lands			
N/A			
Address of Registered Owner of the Lands			
N/A			
Contact Name for Registered Owner of the Lands			
N/A			
Phone # Registered Owner of the Lands		N/A	Duration (months, maximum 12 months)
			9 months
Request for		Spring Funding <input checked="" type="checkbox"/>	Fail Funding <input checked="" type="checkbox"/> Either <input checked="" type="checkbox"/>
Start Date of Project		October 1, 2009	End Date
			July 1, 2009

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 Town of Markham;
- The project promotes education, understanding and participation in environmental sustainability in the Town of Markham; and;
- The project supports the Town's environmental policies and strategic plan.

Please see Attachment

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.

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	\$14,480	Amount requested from the MESF	\$13480
Amount from other sources	\$1,000	In- Kind support hours	1240 hrs.

### BUDGET FORM - HUMAN RESOURCES (Volunteers)

[illegible]

# BUDGET FORM

[illegible]

### Other Expenses

Other Expenses						
(e.g. Printing Brochures)	100%	0.50%	50.00%	25.00%	25.00%	
Battery Disposal (LB)	5000.	1.25.	6250.			
Total			14480			

**How did your organization hear about the MESF? (Please check one)**

Town Website <input checked="" type="checkbox"/>	Newspaper advertisement <input type="checkbox"/>	Word of mouth <input type="checkbox"/>	Other <input type="checkbox"/>
--	--	--	--------------------------------

Upon completion of this Project please submit your project report, as well as original invoices, photos and records to Manager, Environmental Leadership, Town of Markham, 101 Town Centre Boulevard, Markham, Ontario, L3R 9W3. Telephone 905-415-7502. Fax 905-475-4710. Photos may be posted on the Town's website.

## Applicant's Signature

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7. that the Town is not a partner with the MESF recipient.
8. to permit the Town of Markham to claim ownership of greenhouse gas emission reductions, which resulted from the project.

Signature



Title

Executive Director.

Printed Name

Carmea Ng

Date

Sept 16, 2009

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OFFICE USE ONLY			
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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

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## Photo Consent and Release Form

I, \_\_\_\_\_ hereby permit and authorize the  
(Print in full – first, middle initial & last name)  
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Contact Information					
Signature			Date		
Address					
Town			Province		Postal Code
Telephone			Email		
Town of Markham:					
Town Representative			Date		



### **OBJECTIVES OF THIS PROJECT (Page 2)**

- The average household has an average of 23 batteries (in all forms); given that the federal government has a “zero mercury to the environment” policy. These batteries are needed to be properly stored and recycled.
- This project promotes education, understanding and participation in environmental sustainability in the Town of Markham, and bring awareness to the community. This project educates students the important of proper disposal of the household batteries and provide a convenient location to collect the batteries through the schools.
- The project provides demonstrable, widespread and lasting environmental benefits for the community, by collection batteries that contain chemical substances for a proper recycling process instead of dumping the wasted batteries into the landfill which creates pollution to the soils.

## **PROJECT DESCRIPTION (Page 3)**

### **1. Purpose of the project:**

- To educate children and parents on protecting the environment by collecting batteries for recycling
- To prevent chemical substance in these batteries going into the landfills.

### **2. Description of the Project Team**

EcoWatch and Rotary Club personnel will act as the project managers and coordinators managing the project and communicate between all stake holders in this project. The volunteers from the schools including the teachers and the students will be responsible for measuring the weight of the batteries being collected. The Waste Department from the Town of Markham will support the project by managing the disposal of the collected battery.

### **3. What will your project accomplish?**

To educate high school students the impact of land and water contamination from batteries as well as the importance of the number of batteries being disposed as municipal solid waste

### **4. Who will maintain and monitor the project after completion**

EcoWatch and the participating schools will continue the project after the completion.

### **5. What are the measurable benefits of this project?**

To be able to retrieve all the wasted batteries to a proper recycling process rather than letting the used batteries to be sent to the landfill which may cause soil and water pollution though the chemical substances that held within each batteries.

### **6. How will you promote the MESF funds with this project?**

MESF funds will be promoted through the website of Eco Watch, the sponsor logo on each recycling bins, Facebook, press release and functions.

### **7. Describe other funding sources/in kind support**

Other fund sources include donation from private or other organization donation. The Waste Management Department of the Town of Markham will provide support on disposing the collected batteries from the schools. We are also planning to approach the Trillium Fund for additional funding where we can continue the program after completion.

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

- The children and parents will understand the necessity of recycling used batteries through this project. This project will reduce the amount of used batteries being dumped to the landfill, and that result lesser chance of contamination to be done to the soil and water sources in the community.

For Office Use Only - Project No.:

## APPLICATION FORM

## PROJECT MANAGER

Name &amp; Position Claudia Marsales, Manager, Waste Management

Department Waste Management

Phone 905-477-7000 ext.3560

Fax 905-479-7772

Email cmarsales@markham.ca

Website Address www.markham.ca

## PROJECT'S CONTACTS

Name Shayne Hartin

Name

Lelgh Gibson

Dept. Waste Management

Dept.

Waste Management

Phone 905-477-7000 ext.3710

Phone

905-477-7000 ext.8240

Email shartin@markham.ca

Email

lgibson@markham.ca

## PROJECT SUMMARY

Title

Parks BigBelly Solar Compactor Pilot Project

Location of Project (If applicable)

Millennium Park &amp; Mline Park

Duration (months, maximum 12 months)

6 months

Request for:

Spring Funding

☒

Fall Funding

☐

Either

☐

Start Date of Project April 1, 2010

End Date

October 1, 2010

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

◆ This project provides demonstrable, widespread and lasting environmental benefits for the community: The Town of Markham's Waste Management Department is proposing to partner with the Parks Department to conduct a six month in length pilot project in the form of one "BigBelly" solar garbage compactor and one "BigBelly" solar recycling compactor, which we believe could have demonstrable, widespread and lasting environmental benefits for the community. Through this pilot project, the anticipated environmental benefits include a reduction in the number of collections required – resulting in a reduction of greenhouse gas emissions from collection vehicles; a reduction in the amount of litter found in Markham's parks; and an increase in recycling and recycling awareness in our public spaces; and a decrease in the amount of garbage in Markham's parks. The BigBelly unit runs completely on solar energy and there will be no electricity used to conduct the pilot project.

Communities such as Banff, Alberta, and Shoreline, Washington have used BigBelly solar compaction units and demonstrated 80% fewer collections than regular bins, saving both environmentally and economically. The addition of BigBelly recyclers will support Markham's Zero Waste Initiative, as it will allow bottles, plastic, cans, paper and cardboard to be compacted and stored for longer periods of time in comparison to a standard Parks recycling cage. Solar compaction will allow us to control our waste stream while decreasing the number of trips needed to collect and sort recyclables. It is an operational savings and environmental savings from using less fuel. By reducing trips, the Town decreases emissions from collection vehicles, helping to protect the air, streams and abundant flora that make Markham's parks a great treasure.

Litter can often be found in parks and sometimes traditional garbage cans are the culprit – overflowing during the busy summer seasons and unable to contain trash blown by the breeze or pulled out by birds and animals. Markham is in need of a solution to this that maintains the beauty of Markham's parks. The machines, outfitted with animal-proof latches are fully contained units that keep recyclables in and animals out. The BigBelly will keep our parks clean while encouraging recycling.

The Waste Management Department will demonstrate the pilot project's environmental benefits through monitoring and twice weekly data collection which will report on the number of collections required to maintain the bins, the amount of litter found around the bins, and auditing the amount and types of materials deposited in these bins for both recycling and garbage. These results will compare the BigBelly containers to our current garbage and recycling containers because we propose to place a regular Parks garbage can beside the BigBelly for recycling and a public space recycling cage beside the BigBelly for garbage in order to obtain an accurate impact the BigBelly's have on our environment in comparison to our current Parks waste management program.

❖ The project is a leading environmental innovation that can be showcased by the Town of Markham:  
This project is a leading environmental innovation that can be showcased by the Town of Markham because Markham will be the first municipality in Ontario (and second in Canada) to feature BigBelly solar compactor units in its parks. The Waste Management Department will promote their use on the Town's website, through the Mission Green newsletter, through its final report which will be shared with other communities and potentially the waste management industry.

❖ The project promotes education, understanding and participation in environmental sustainability in the Town of Markham:

The project will promote the education, understanding and participation in the Town's recycling, anti-litter and zero waste initiatives through public promotion using the Town's internal resources such as featuring the project in the Mission Green newsletter and on the Town's website, which will generate community awareness and involvement and demonstrate environmental leadership.

❖ The project supports the Town's environmental policies and strategic plan:

This project supports Markham's Zero Waste policy which requires 100% (or as close to) recycling at Town buildings and events which can be expanded to include our public space recycling in the near future.

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 determine whether the use of BigBelly solar compaction units will benefit our community - environmentally, operationally and economically, more than our current Parks waste management program.

❖ Description of the Project Team:

The project team will consist of The Town of Markham's Waste Management and Parks Departments staff and students.

❖ What will your project accomplish? (Include workplan with timelines)

We anticipate that the project will accomplish the following goals:

1. Improve public participation in Markham's Parks recycling program.
2. Reduce the number of collections required to maintain the bins, therefore reducing our green house gas emissions, staff time and cost to empty the bins.
3. Decrease the amount of litter in Markham's parks.
4. Increase the amount of recycling collected in Markham's parks.
5. Decrease the amount of garbage in Markham's parks.

\*Please see attached workplan/timeline.

❖ Who will maintain and monitor the project after completion? (please provide contact information)  
Shayne Hartin, Environmental Inspector, Waste Management Department 905-477-7000x3710.

❖ What are the measurable benefits of this Project?

Reduction in the number of collections, reduction in the amount of litter in our parks, increase in recycling and decrease in garbage.

❖ How will you promote the MESF fund with this project?

Through our public communications including our Parks and Waste webpages, Mission Green newsletter, e-newsletter and other internal means of publicity.

❖ Describe other funding sources/in kind support

N/A

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

We may continue to keep the machines in the Parks if an environmental benefit is proven.

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

We will create labels to affix to the recycling and garbage compaction units.

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	\$14,106.00	Amount requested from the MESF	\$14,106.00
--------------------	-------------	--------------------------------	-------------

## BUDGET FORM – HUMAN RESOURCES (Volunteers)

[illegible]

## BUDGET FORM

Materials, Supplies and Equipment	Cost			MESF	Other CAD
	# of units	Unit Cost \$	Total Cost \$		
(e.g. Light bulbs)	500	1.00	500.00	200.00	300.00
BigBelly Solar Compactor Unit	1	\$3,995.00USD	\$3,995.00	\$4,300.00	\$4,300.00
Blue Wrapped BigBelly Compactor Recycling	1	\$4,356.00USD	\$4,356.00	\$4,700.00	\$4,700.00
Liner Bags	2	\$42.00USD	\$84.00	\$90.00	\$90.00
Shipping		\$243.76USD	\$243.76	\$260.00	\$260.00
<b>TOTAL:</b>				<b>\$9,350.00</b>	

### Other Expenses

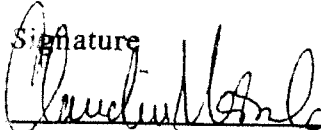
(e.g. Printing Brochures)	100	0.50	50.00	25.00	25.00
Students to monitor bins and waste audits	2 students	54 hrs	\$756.00	\$756.00	
Launch			\$1,000.00	\$1,000.00	
Print and Design of bin labels			\$3,000.00	\$3,000.00	
<b>Total</b>			<b>\$14,106.00</b>	<b>\$14,106.00</b>	

### How did you organization hear about the MESF? (Please check one)

Town Website ☐ Newspaper advertisement ☐ Word of mouth ☒ Other ☐

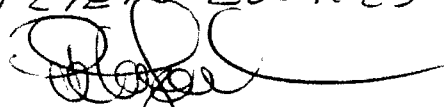
Upon completion of this Project please submit your project report, as well as original invoices, photos and records to Manager, Environmental Leadership, Town of Markham, 101Town Centre Boulevard, Markham, Ontario, L3R 9W3. Telephone 905-415-7502. Fax 905-475-4710. Photos may be posted on the Town's website.

## DEPARTMENT HEAD'S AUTHORIZATION

Signature  Title  
 Manager, Waste Management

Printed Name Date  
 Claudia Marsales September 18, 2009

PETER LOUKES - DIRECTOR - OPERATIONS - SEPT 22/09



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	

Big Belly Parks Pilot Project Timeline											
ITEM	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Order containers	X										
Design labels		X									
Install containers		X									
Launch pilot project in 2 parks			X								
Advertise on internet, e-news, mission green newsletter			X								
Collect data twice weekly			X								
Conduct 2 waste audits			X	X	X	X	X	X			
Report on results				X			X				
Communicate results - Council, residents, staff									X	X	





*Bright ideas for waste management*

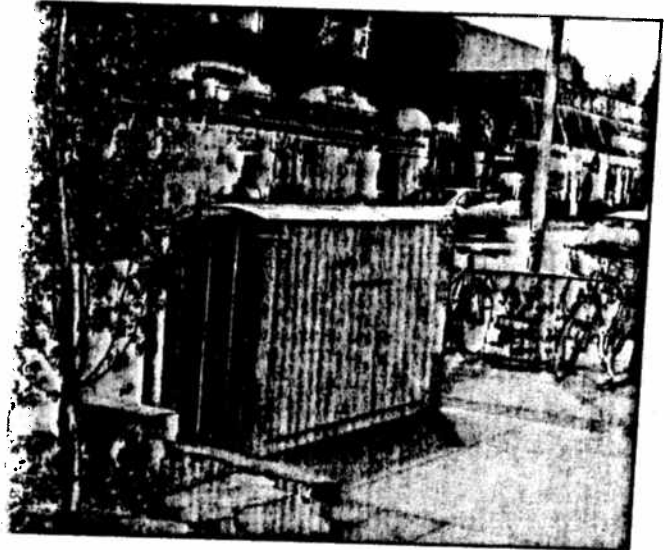
*"It is not only an operational savings, but it's also an environmental savings from less fuel."*

- Chad Townsend  
Banff environmental services coordinator

## Town of Banff, Canada

Balance is key for the Town of Banff, located inside Banff National Park in Alberta, Canada. This beautiful UNESCO World Heritage Site, nestled into the awe-inspiring Canadian Rockies, must juggle the often conflicting responsibilities of running a municipality while also serving as the gateway to Canada's oldest – and one of the world's most visited – national parks.

As part of this balancing act, Banff operates under a zero waste mandate, collecting, sorting and recycling all of its trash. While littering is illegal, traditional garbage cans are often a culprit – overflowing during the busy tourist seasons and unable to contain trash blown by the breeze or pulled out by birds and animals. The town needed a solution that would maintain the pristine beauty that attracts 5 million hikers, skiers and wildlife lovers each year, while still meeting the needs of its residents and furthering the town's commitment to sustainability.



### Big Savings and Zero Waste

The town found that solution in the form of 17 *BigBelly*® Solar Trash Compactors, which met their requirements perfectly. The machines, outfitted with bear-proof latches and two separate recycling bins (one for bottles and cans, another for paper and cardboard) are fully-contained units that keep trash in and animals out – even Banff's large bear population. The *BigBelly* keeps the streets clean while protecting both animals and humans from the dangers of foraging trips through the town. The addition of *BigBelly* recyclers will greatly help Banff's zero waste initiative, as it will allow bottles, paper and cardboard to be sorted when deposited. The town estimates that revenues generated from bottle redemption alone will be between \$4000 to \$5000 a month.

### Working with Nature

The *BigBelly* machines were part of a comprehensive, \$22 million redevelopment of the downtown, for which town planners carefully selected custom street furniture, trees, and finishes to complement the majesty and beauty of the surrounding national park. "We are fortunate in terms of what we had to work with," said Randall McKay, Banff's planning and development manager. "The street now celebrates our authentic sense of place and will stand the test of time," he said. "We have brought nature back into the built environment."

### Clean Air

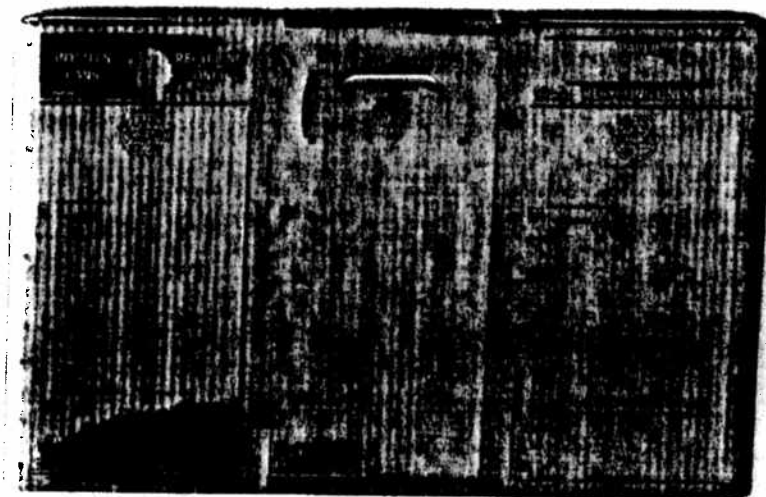
Solar compaction allows Banff to control their waste stream while decreasing the number of trips needed to collect sorted recyclables. "It is not only an operational savings, but it's also an environmental savings from less fuel," said Banff environmental services coordinator Chad Townsend. By reducing trips, the town decreases emissions from collection vehicles, helping to protect the crisp mountain air, streams and abundant flora and fauna that make Banff National Park one of the world's great treasures.



# Recycling Units

## A complete system for managing solid waste and recyclables

The BigBelly® solar compactor with integrated recycling units is the world's only system that provides on-site compaction of solid waste and separation of recyclable materials. The combination of recycling units with BigBelly provides significant economic, environmental and educational benefits.



BigBelly with Bottle/Can & Paper Recycling Units—Made in USA—Patents Pending CE & RoHS Compliant

## Features & Benefits

- ▶ **Economic benefit**  
*Potential to generate revenue stream*
- ▶ **Environmental benefit**  
*Fewer materials going to landfill and less use of natural resources*
- ▶ **Educational benefit**  
*Generate community awareness and involvement and demonstrate environmental leadership*
- ▶ **Integrated design & shared materials**  
*Seamlessly combines with BigBelly*
- ▶ **Paper, bottle/can & single stream recycling units**  
*Enables multiple configurations to separate recyclable streams*
- ▶ **Specific paper/bottle openings & graphics**  
*Encourages recycling of proper material*
- ▶ **Enclosed design**  
*Water resistant and discourages pilfering*
- ▶ **50 gallon leakproof bin**  
*Contains liquid and requires no bag*



Technology  
Pioneer 2007

BIGBELLY® SOLAR—PROUD RECIPIENT OF TOP AWARDS



Green 50  
2007

Springwise Top 10  
Eco & Sustainability  
Business Ideas in 2007



## BigBelly Recycling Unit Options



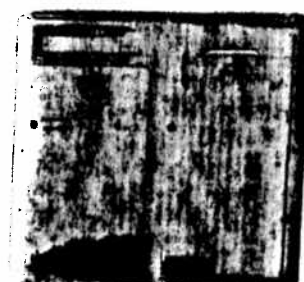
BigBelly with Bottle/Can & Paper Recycling Units



BigBelly with Bottle/Can Recycling Unit



BigBelly with Single Stream Recycling Unit



BigBelly with Paper Recycling Unit

## Product Specifications

	BigBelly with 1 Recycling Unit	BigBelly with 2 Recycling Units
Dimensions	50.1"W x 25.9"D x 50.4"H (127.3 cm W x 65.8 cm D x 128 cm H)	73.7"W x 25.9"D x 50.4"H (187.2 cm W x 65.8 cm D x 128 cm H)
Bin	50 gallon polyethylene (189.3 liters) 19" x 19" x 34" (48.3 cm x 48.3 cm x 86.4 cm)	50 gallon polyethylene (189.3 liters) 19" x 19" x 34" (48.3 cm x 48.3 cm x 86.4 cm)
Weight	470 lbs. (213.2 kg)	620 lbs. (281.2 kg)
Insertion Opening	Bottle/Can opening: 5" diameter Paper opening: 1.75" x 12" (4.4 cm x 30.5 cm) Single stream: Bottle/Can opening: 5" diameter (12.7 cm) Paper opening: 1.75" x 10" (4.4 cm x 25.4 cm)	Bottle/Can opening: 5" diameter (12.7 cm) Paper opening: 1.75" x 12" (4.4 cm x 30.5 cm)

## Environmental Footprint

At BigBelly Solar, in addition to making products that are good for the environment, the standards we meet, materials we choose and the way we build our products is also good for the environment.

### Side panels and Hopper Cover

Our black ABS plastic contains post consumer recycled content of 80% to 100% and can itself be recycled.

### Packaging

We use recycled cardboard and wooden pallets that can be recycled.

### Powder Coat Painting

An environmentally friendly way to paint, it is nontoxic, has no fumes and virtually no VOC (volatile organic compounds).

### RoHS Compliant

(Restriction of Hazardous Substances Directive)

BigBelly Solar products meet this tough European standard. There is no lead used in our circuit boards and no chromium is used in the plating of our steel.

### Lead Acid Battery

Our battery is recyclable.

### Leak Proof Bins

Customer can choose to eliminate bags entirely.



August 31, 2009  
Quote Number: 40056LR/EM1

### PRODUCT QUOTATION

#### Quote Requested By

Leigh Gibson  
Town of Markham  
Waste Management Dept.  
8100 Warden Avenue  
Markham, ON L6G 1B4  
WS06534

905-477-7000 ext. 8240  
lgibson@markham.ca

#### Bill To

Leigh Gibson  
Town of Markham  
Waste Management Dept.  
8100 Warden Avenue  
Markham, ON L6G 1B4  
WS06534

905-477-7000 ext. 8240  
lgibson@markham.ca

#### Ship To

Leigh Gibson  
Town of Markham  
Waste Management Dept.  
8100 Warden Avenue  
Markham, ON L6G 1B4  
WS06534

905-477-7000 ext. 8240  
lgibson@markham.ca

Qty	Product	Side & Hopper Color	Unit Price	Color Charge	Extended
1	BigBelly Solar Compactor	Black	\$ 3,995.00	\$0.00	\$ 3,995.00
1	Blue Wrapped BigBelly Compactor		\$ 4,356.00		\$ 4,356.00
					Subtotal \$ 8,351.00
					Shipping \$ 243.76
					Tax @ 0.00% \$ -
					Total \$ 8,594.76

#### Notes:

Each BB3 System includes 2 front door keys, 2 magnetic key fobs, and a quick start guide. Prices valid for 60 days from above date.

Sincerely, Ernest Moniz  
BigBelly Solar

emoniz@bigbellsolar.com

For Office Use Only - Project No.:

**APPLICATION FORM****PROJECT MANAGER**

Name &amp; Position Victoria McGrath, Director, Sustainability Office

Department Sustainability Office

Phone X 7516

Fax

Email [vmcgrath@markham.ca](mailto:vmcgrath@markham.ca)Website Address [www.markham.ca](http://www.markham.ca)**PROJECT'S CONTACTS**

Name Victoria McGrath

Name

Michael Mesure

Dept. Sustainability Office

Dept.

Executive Director, FLAP

Phone X 7516

Phone

905 649 9223

Email [vmcgrath@markham.ca](mailto:vmcgrath@markham.ca)

Email

[michaelmesure@netzero.net](mailto:michaelmesure@netzero.net)**PROJECT SUMMARY**

Title

FLAP Education and Outreach Pilot Project

Location of Project (if applicable)

Markham, ON

Duration (months, maximum 12 months) 12 months

Request for:

Spring Funding ☒Fall Funding ☐Either ☐

Start Date of Project October 2009

End Date

October 2010

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 Town of Markham;
- ❖ The project promotes education, understanding and participation in environmental sustainability in the Town of Markham; and;
- ❖ The project supports the Town's environmental policies and strategic plan.

**Please see attached document for proposal details.**

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:

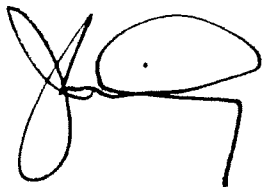
- ❖ Purpose for the project
- ❖ Description of the Project Team
- ❖ What will your project accomplish? (include workplan with timelines)
- ❖ Who will maintain and monitor the project after completion? (please provide contact information)
- ❖ What are the measurable benefits of this Project?
- ❖ How will 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 attached document for proposal details.**

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	\$10,000.00	Amount requested from the MESF	\$10,000.00
Amount from other sources		In- Kind support hours	200

## DEPARTMENT HEAD'S AUTHORIZATION



Signature

Title: Chief Administrative Officer

Printed Name: John Livey

Date: September 17, 2009

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

## MESF Proposal

*Briefly describe what your group does:*

FLAP was founded in 1993 to address the problem of night-migrating birds hitting lighted office towers during the night. We have since expanded our work to encompass daytime collisions with reflective windows and mirrored buildings. Our Mission: To safeguard migratory birds in the urban environment through education, research, rescue and rehabilitation.

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

- 1) The project provides demonstrable, widespread and lasting environmental benefits for the community.

By educating Town staff, the public, architects, designers, builders and building owners and managers about the critical importance of preventing migratory bird collisions with windows and mirrored buildings during the day and lit structures at night, FLAP will not only contribute to bird conservation in Markham but also help the Town minimize CO2 emissions and reduce energy consumption (by the simple act of turning off lights).

- 2) The project is a leading environmental innovation that can be showcased by the Town of Markham

The Town of Markham has taken a leadership role in protecting birds from striking windows at 8100 Warden Avenue by applying a bird-deterrent film on the exterior windows. This is the first such step by a municipality in the GTA and is indeed an environmental innovation. To support this leadership, this pilot project will promote the application of the film at 8100 Warden Avenue and encourage businesses that are known to have bird-strike concerns in the community to undertake action to prevent bird strikes in future. While other municipalities, such as the City of Toronto, have programs such as Lights Out which encourage buildings to reduce their impact on bird strikes, Markham is the first municipality to apply the bird-deterrent film and this will be quite influential to businesses in the community.

- 3) The project promotes education, understanding and participation in environmental sustainability in the Town of Markham.

This pilot project will target Markham businesses specifically to engage them in education and outreach in order to reduce their impact on bird strikes. Countless studies and FLAP's own experience have revealed that our native bird populations are dwindling, some at an alarming rate. Pesticide use, predation by domestic cats, habitat destruction and many other factors are contributing to these declines. Collisions with buildings top the list. Still, the vast majority of people – most of whom have witnessed a bird hitting a window at some point in their lives – are unaware of this. They believe that bird/window strikes are isolated incidents. FLAP's educational campaign will



correct this mistaken assumption and give the average citizen the knowledge to rescue injured birds and prevent collisions in the future.

4) The project supports the Town's environmental policies and strategic plan

The FLAP Education and Outreach Pilot Project supports the Building Markham's Future Together Environmental Action Plans in two places:

- 1a) To protect our air, land, water, vegetation/habitat, and all living species
- 2 ) Include bird-friendly buildings as a part of our green building and green community standards

Markham Council has also been encouraging staff and businesses to use FLAP's Bird-Friendly Guidelines in building design.

**Purpose of the project:**

To educate Town of Markham staff, local corporations, building owners and managers, architects, planners, designers, builders and members of the public about the pressing need to protect migratory birds and the ways in which each individual or corporation can achieve this.

***Description of the Project Team:***

Project responsibilities will be shared by FLAP Executive Director Michael Mesure and Program Assistant Susan Krajnc and supported by staff in the Sustainability Office.

As one of the founders of the Fatal Light Awareness Program, Michael has been rescuing birds for over 20 years. Since FLAP was founded, Michael has established key partnerships and working relationships with governments at all levels, building owners and managers, architects, planners, designers and ornithologists to create world-first programs such as the 12-step *Bird-Friendly Building Program*, and to develop varied techniques and strategies to prevent bird strikes with buildings. His invaluable knowledge has been put to good use developing educational documents which include *Collision Course: The Hazards of Lighted Structures and Windows to Migratory Birds* and *A Field Guide to Birds of Toronto*.

Susan Krajnc, who has a Bachelor of Arts in Political Science from York University, has been FLAP's Program Assistant and Volunteer Coordinator since 2005. Her love of nature led her to begin rescuing birds in 2003. Thanks to Susan's contacts and initiative, FLAP was able to capture the attention of two City of Toronto councilors who then spearheaded the *Lights Out! Toronto* educational campaign. Susan is involved in all aspects of FLAP's work, managing the office, answering questions about bird collision issues, ministering to injured birds brought into the office, sitting on committees and helping to produce FLAP publications.

Staff in the Sustainability Office will help FLAP with business contacts, letter writing, promotion, website support, staff education and outreach and will be involved with bird rescues when needed. Staff in the Sustainability Office have been working with FLAP for several years to promote bird-friendly practices with businesses and to implement bird-deterrent film on Town buildings. Sustainability Office staff will also work with FLAP to oversee the administration of the invoices and work related to this pilot project and will act as the contact for the project internally.

*What will your project accomplish? (include workplan and timelines)*

Through Bird-Friendly Building bulletins, migration alerts, the FLAP website ([www.flap.org](http://www.flap.org)), displays, workshops for tenants, our newsletter *Touching Down* (published twice a year during spring and fall migration), our brochure (in the shape of a hawk silhouette) and our other publications, the FLAP Education and Outreach Pilot Project will spread the word that daytime collisions with windows and mirrored buildings and nighttime strikes at tall, lighted structures are significant causes of bird mortality. Dr. Daniel Klem, Jr., an ornithologist at Muhlenberg College in Pennsylvania who has studied the issue of bird/window strikes for over 35 years, estimates that an average of 4 birds strike each and every building around the world annually. This translates into billions of fatalities every year.

As we strengthen the partnership between FLAP and the Town of Markham, we can recruit volunteers to rescue birds around government and commercial buildings or make presentations. FLAP and Sustainability Staff will work together to produce joint media releases and migration alerts and monitor known sites of bird strikes, building a case with which to approach corporate-owned buildings and encourage them to implement collision-prevention strategies.

### BUDGET FORM – HUMAN RESOURCES (Volunteers)

[illegible]

## BUDGET FORM

[illegible]

## Other Expenses

(e.g. Printing Brochures)	100	0.50	50.00	25.00	25.00
Professional Services:					
Executive Director time to oversee program (0.15 FTE @ \$46,000/yr)	1	\$6,800.00	\$6,800.00	\$6,800.00	
Program Assistant time to help oversee program (0.10 FTE @ \$32,000/yr)	1	\$3,200.00	\$3,200.00	\$3,200.00	
<b>Total</b>			\$10,000	\$10,000	

**How did your organization hear about the MESF? (Please check one)**

Town Website	Newspaper advertisement	Word of mouth	Other
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Upon completion of this Project please submit your project report, as well as original invoices, photos and records to Manager, Environmental Leadership, Town of Markham, 101 Town Centre Boulevard, Markham, Ontario, L3R 9W3. Telephone 905-415-7502. Fax 905-475-4710. Photos may be posted on the Town's website.

FLAP has been maintaining statistics for Markham since we began sporadic monitoring in the Town several years ago. As our Markham bird conservation campaign expands we will send out the call for more volunteers to ensure consistent coverage of all buildings that are known collision sites. We will set aside a page on our website for Markham, encouraging members of the public to record the birds they've found and relate anecdotes that prove the effectiveness of their chosen technique for alerting birds to the presence of windows.

The educational component of our campaign is, understandably, hard to quantify since many people finding fallen birds will never send us their information. But it is reasonable to assume that the message will spread rapidly by all the means mentioned earlier and, perhaps most critically, word of mouth. The reach of FLAP's combined efforts with the Town of Markham will be far greater than we can imagine.

Businesses have come to recognize the value of proving themselves to be environmentally responsible, not only for the competitive advantage it gives them but also because human health is directly linked to the health of our planet, and all wild creatures have a role to play in the complex global ecosystem. This shift in corporate consciousness means that more businesses can and will be persuaded to do what it takes to make their buildings bird-friendly, especially as they watch others take the lead.

Under FLAP's leadership, Markham Town Council took a bold step this spring, applying an opaque window film to the glass solarium and mirrored walls of 8100 Warden. This innovative municipal project – the first of its kind in the Greater Toronto Area – is a signal to the corporate community that this forward-thinking council is serious about bird conservation.

*How will you promote the MESF Fund with this project?*

The MESF Fund will be promoted – and thanked – in FLAP's biannual newsletter, *Touching Down*, on our website ([www.flap.org](http://www.flap.org)), in migration alerts and bulletins, in media releases, on lobby signage at participating buildings and in a booklet we hope to publish soon, *A Field Guide to the Common Birds of Markham*.

*Describe other funding sources/in-kind support?*

FLAP will solicit donations for this project and our other bird conservation work from our member/donors who receive three appeals each year. Also, we will receive in-kind support from the Town of Markham.

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

<u>Workplan</u>	<u>Timeline</u>
➤ Identify corporate buildings in the Markham region requiring outreach and bird recovery efforts	October 2009 through 2010
➤ Initiate communication with the identified buildings, introducing them to our program; offer our services to help educate their staff and tenants on how they can help mitigate bird collision at their location.	January-March 2010
➤ Connect building management with sign company PosterOne where they can invest in lobby signage designed to educate their staff and tenants on the bird collision issue	February- March 2010
➤ Email bird migration alerts to building management announcing the beginning of each migration season	March and August 2010
➤ Email periodic bird-friendly building bulletins to building management designed to keep them comprised of program activities and updates.	April through October 2010
➤ FLAP and the Town of Markham will produce the <i>Common Birds of Markham</i> booklet which will serve as a key educational tool to circulate amongst the Markham corporate community	February 2010 MESF Application
➤ Encourage building management to host a FLAP educational display during the migrations in an effort to further educate building staff and tenants.	May and September
➤ Work with the Town of Markham to help recruit bird rescue volunteers for the Markham region.	Ongoing throughout 2010

*Who will maintain and monitor the project after completion? (include contact info)*

Michael Measure, Executive Director, 416-366-3527 or 905-852-0682 (home)

E-mail: [flap@flap.org](mailto:flap@flap.org) or [michaelmeasure@netzero.net](mailto:michaelmeasure@netzero.net).

*What are the measurable benefits of this project?*

Since 1993, FLAP has kept records of birds colliding with windows and lit buildings. Our volunteer corps – currently over 30 people – rescues stunned or injured birds and collects dead birds from around commercial buildings throughout the Greater Toronto Area. Our data for each incident includes bird species, gender, maturity level, injuries, if any, location of pickup (including the side of the building) and rehabilitation information, where applicable.

Anyone who has ever rescued an injured bird does not soon forget this extraordinary experience. But many people shy away from picking up a bird that has hit a window out of fear or the worry that they simply don't know what to do. FLAP's Education and Outreach Pilot Project will go a long way towards alleviating these fears and teaching people not only how to rescue birds but, more importantly, how to prevent collisions. These lessons will endure and be passed on, saving countless generations of birds from untimely deaths.

The Fatal Light Awareness Program – through our executive director and volunteers – has been working for many years with Markham Town Council and staff to achieve our mutual goals. We will continue to do so, even if funding is not forthcoming. That said, funding from MESF would enable us to contribute more resources and staff time to Markham's program and we would be most appreciative of an MESF grant.

*Will there be an educational sign component?*

FLAP will be approaching a company called Poster 1, which supplies signage for the Bird-Friendly Building program in the Greater Toronto Area, to produce three different signs for each participating commercial building to choose from. The Town of Markham will continue to produce its own signs for municipal buildings like the one put up at 8100 Warden Avenue.

*Long-term goals:*

Next February we plan to apply to MESF again – for multi-year funding this time – to continue and expand upon what we've started. FLAP would like to work with Markham Council and staff on the booklet *Field Guide to the Common Birds of Markham* and *Bird-Friendly Development Guidelines* and a *Lights Out!* program for the Town.

Located as Markham is on a busy migration corridor and graced with ravines and parks where birds nest and raise their young, it is vital that the Town and its corporate community continue working to halt these declines and protect native bird populations. FLAP would be pleased to work with your forward-thinking Council on this crucial environmental issue.

For Office Use Only - Project No.:

**APPLICATION FORM****PROJECT MANAGER**

Name & Position	Alex Moore - Manager, Purchasing		
Department	Finance		
Phone	905-475-4711		
Fax	905-479-7762		
Email	amoore@markham.ca	Website Address	

**PROJECT'S CONTACTS**

Name	Raj Raman	Name	Barb Cribbett
Dept.	Finance	Dept.	Finance
Phone	905-477-7000 Ext., 2013	Phone	905-477-7000 Ext, 4735
Email	rraman@markham.ca	Email	bcribbett@markham.ca

**PROJECT SUMMARY**

Title	Green Procurement Guide		
Location of Project (if applicable)	Purchasing		
Duration (months, maximum 12 months)	6 months		
Request for:	Spring Funding	<input type="checkbox"/>	Fall Funding <input checked="" type="checkbox"/> Either <input type="checkbox"/>
Start Date of Project	October 15, 2009	End Date	April 15, 2010

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 Town of Markham;
- ❖ The project promotes education, understanding and participation in environmental sustainability in the Town of Markham; and;
- ❖ The project supports the Town's environmental policies and strategic plan.

Green procurement policy would support all the above initiatives.

Green procurement is the purchase of environmentally preferable products and services within the context of achieving value for money. It requires the integration of environmental performance considerations into the procurement process including planning, acquisition, use and disposal. In this context, value for money includes the consideration of many factors such as cost, performance, availability, quality and environmental performance. Green procurement also requires an understanding of the environmental aspects and potential impacts and costs, associated with the life cycle assessment of goods and services being acquired.



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

#### Purpose

The purpose of this project is to increase Markham's leadership role in the area of green procurement while promoting environmental leadership. The primary purpose of this project and the Green Procurement Guide is to provide educational awareness to Staff, contractors and consultants to the approaches to purchasing products which have a lower impact on the environment over their life cycle.

#### Team

The project will be delivered by the Purchasing Department with support from Sustainability office and other user departments as required. The request within this application is to hire on a part time contractual basis a Masters Student to help finalize the Green Procurement Guide.

#### Accomplishments/Work plan

The project outcome will be a regularly reviewed green purchasing guide by Town Staff, Consultants (doing specifications on behalf of the Town) to make better purchasing decisions based on an expanded notion of cost, and consideration of the environmental attributes and social issues associated with the products purchased.

#### Maintain & Monitor

The guide is intended to assist individuals to change their purchasing practises and offer tips for integrating sustainable practices into purchasing decisions in a way that will be systematic and long lasting.

#### Measurable Benefits

Benefits of Green Procurement can include many different parameters but most notable are financial and environmental. Cost savings are the most universally applicable financial benefits of green purchasing. Numerous studies highlight the fact that those organizations practicing green procurement typically save money over total ownership costs and support a reduction in organizational footprints.

#### Promotion of MESF

The Green procurement guide will acknowledge MESF within the guide and any promotional literature relating to this project.

#### Other Funding Sources

Approved staff operating budget to support the Master Student (internal time required)

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	<b>20,000</b>	Amount requested from the MESF	<b>20,000</b>
Amount from other sources		In- Kind support hours	

## BUDGET FORM – HUMAN RESOURCES (Volunteers)

[illegible]

## BUDGET FORM

[illegible]

**How did your organization hear about the MESF? (Please check one)**

Town Website	_____	Newspaper advertisement	_____	Word of mouth	_____	Other	_____
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Upon completion of this Project please submit your project report, as well as original invoices, photos and records to Manager, Environmental Leadership, Town of Markham, 101 Town Centre Boulevard, Markham, Ontario, L3R 9W3. Telephone 905-415-7502. Fax 905-475-4710. Photos may be posted on the Town's website.

## DEPARTMENT HEAD'S AUTHORIZATION

*Barb Cribbitt*  
Signature

Title *Treasurer*

Printed Name *Barb Cribbitt* Date *Sept. 18, 2009*

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