

Application Form

For Office Use Only - Project No.:

Group Information			
Name	Sir Wilfrid Laurier Public School COUNCIL		
Address	160 Hazelton Avenue, Markham L6C 3H2		
Phone	905.927.1452, Brenda 905.949.9404 x345	Fax	905.927.9592, Brenda 904.940.5308
Email	btabe@hotmail.com	Website Address	http://www.sirwilfridlaurier.ps.yrdsb.edu.on.ca
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:			
<p>Group name: <u>School Council Playground Sub-Committee</u></p> <p>Committee Initiated in Sep. 2007 to understand the intended layout of Park property adjacent to Sir Wilfrid Laurier Public School and the Town process to build a park. School ground fencing configuration was of interest in order to ensure maximum benefit of outdoor space for students. E.g. Is Park use during recess accessible?</p> <p>In 2008, Committee focus shifted from Park property to school grounds to increase students' outdoor benefit and environmental awareness. We have paid careful attention to providing secure Outdoor Classroom structures for teacher use & Curriculum presentation, without instructing teachers on how to implement their programs.</p>			
Projects Contacts			
Name	Brenda Tabe	Name	Susanna Jones
Title	Project Manager	Title	Teacher, SWLPS
Phone (work)	905.940.9404 x345	Phone (work)	905.927.1452
Phone (home)	905.948.8163	Phone (home)	
Email	btabe@hotmail.com	Email	susanna.jones@yrdsb.edu.on.ca
Project Summary			
Title	Outdoor Classroom with Experimental Planting Beds		
Location of Project	Sir Wilfrid Laurier Public School, Markham		
Name of Registered Owner of the Lands	York Region District School Board		
Address of Registered Owner of the Lands	60 Wellington Street West, Box 40 Aurora, ON L4G 3H2		
Contact Name for Registered Owner of the Lands	Robert Selvazzo robert.selvazzo@yrdsb.edu.on.ca Manager of Energy and Environmental Services		
Phone # Registered Owner of the Lands	905-727-0022 ext. 3558	Duration (months, maximum 12 months)	12 months
Request for	Spring Funding <input checked="" type="checkbox"/>	Fall Funding	Either <input type="checkbox"/>
Start Date of Project	May 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.

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 attachments.

1. Appendix "A" - Sir Wilfrid Laurier Public School MESF Application **4 pages**
(Questions stated above plus answers.)
2. Appendix "B" - Drawing of Outdoor Classroom (OC) Proposal.
3. Appendix "C" - Aerial location of OC on School Property
4. Appendix "D" - Curriculum Connections (2 pgs) by Susanna Jones, Teacher.
5. Appendix "E" - Approval letter from YRDSB, registered owner of property
6. Appendix "F" - Elevation drawing of OC

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	\$10,270	Amount requested from the MESF	\$7,270
Amount from other sources	\$ 3,000	In- Kind support hours	719

BUDGET FORM – HUMAN RESOURCES (Volunteers)

[illegible]

BUDGET FORM

Materials, Supplies and Equipment	Cost			MESF	Other
	# of units	Unit Cost \$	Total Cost \$		
(EXAMPLE Native seedlings)	500	1.00	500.00	200.00	300.00
1. Armour Stones, delivery, installation, tax	12	200	2400	2400.00	
2. fine woodchip ground cover, only around rocks for weed control/ no trimming req'd				200.00	
3. deciduous trees – (maple varieties) 4x acer... approx. 2 m tall/ 45mm, inclusess. delivery, tax	4	400	1000	1600.00	
4. Soil for trees (10x 30L bags per tree)	40	3	120	120.00	
5. wood chip mulch for trees from Town	Cubic yard	In-kind		-----	0.00
6. evergreen trees – (pine & spruce) 2 x pinus.. + 2x picea glauca approx. 150 cm height includes delivery, tax	4	250	1000	1000.00	
7. Soil for evergreens (10x 30L bags per)	40	3	120	120.00	
8. woodchips for evergreens from Town	Cubic yard	In-kind		-----	0.00
9. tree staking kits	8	15	120	120.00	
10. Planting bed walls (surrounds), stone walkway between beds 1&2, and 3&4, screenings 4 x (3x8 ft)	88 linear ft	10	880	880.00	
11. Bed Soil/comp. 4x(3x8)x1.5ft = 4.5 yd^3	4.5 cubicyd	70	315	315.00	
12. weed barrier in beds (3x8) x 4 per bed	96 sq ft	15 (3 x100)	15	15.00	
13. Start up plantings for beds unspecified (teacher wish list items) e.g. grasses			2000.00	-----	2000.00
14. September 2009 maintenance			1000.00	-----	1000.00

Other Expenses

(EXAMPLE Printing Brochures)	100	0.50	50.00	25.00	25.00
1. Tree tags – trees species/gr. responsible	8	\$20	200.00	200.00	
2. Sign (wooden) – care for trees information	1	100	100.00	100.00	
3. Sign (wooden) – planting bed explanation	1	100	100.00	100.00	
4. Sign – Gratitude to Funding Partners	1	100	100.00	100.00	
Total			\$10,270	\$7270.00	\$3000.00

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

Town Website Newspaper advertisement x Word of mouth Other

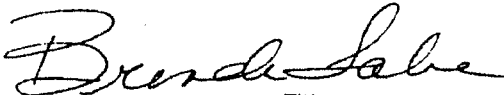
Upon completion of this Project please submit your project report, as well as original invoices, photos and records to Manager, Environmental Leadership, Town of Markham, 101 Town Centre Boulevard, Markham, Ontario, L3R 9W3. Telephone 905-415-7502. Fax 905-475-4710. Photos may be posted on the Town's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

Applicant's Signature

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 result from the project.


Signature Title

Playground Committee Chair, SWLPS.

Printed Name Date

Brenda Tabe Fri. Feb. 13, 2009

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, Brenda J. Tabe 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	<u>Brenda Tabe</u>		Date	<u>Feb. 13, 2009</u>	
Address	<u>160 Hazelton Avenue (Sir Wilfrid Laurier P.S.)</u>				
Town	<u>Markham</u>	Province	<u>ON</u>	Postal Code	<u>L6C 3H6</u>
Telephone	<u>905-940-9404 X345</u>		Email	<u>btabe@hotmail.com</u>	
Town of Markham:					
Town Representative			Date		

Appendix "A" - Sir Wilfrid Laurier Public School MESF Application

Project Objective:

Our project promotes education, understanding and participation in environmental sustainability in the Town of Markham.

Phase 1: May (Spring) - June 2009

Outdoor Classroom (OC) construction will provide hands on learning for our students (grades 1-8).

The OC will showcase :

- *planting beds* for curriculum related study at center stage
- *rock seating area*
- *native species shade trees* and natural *grasses* for observation and hands on learning.

Phase 2: September 2009 - June 2010 (Final report to be prepared May 2010)

Environmental experimentation

This phase will be sustained and further developed year after year.

a) (Where appropriate and with teacher discretion) Science Curriculum implementations adapted for **hands on instruction, experimentation and learning** using planting beds, trees and grasses and their blend with the other elements of the Outdoor Classroom.

Processes such as growing season, soil nourishment from composed materials may be studied.

Signs will clarify experimental nature of beds, since contents are not necessarily intended to boast flower-garden-like attractiveness.

b) Promote safety for trees. Uninformed children swing on and bend tree branches or they might walk on the ground above tree roots. Our students will be trained to minimize and avoid negative behaviour in the environment to understand the impact for tree survival.

Signs will describe the requirement for our students and visitors to our playground.

c) Initiate school wide **environmental projects** (e.g. composting, preservation of trees, grade 1 worm repository) to be implemented within the framework of the OC.

SWLPS's pre-existing Club Vert (Green Club) may influence direction of environmental projects.

d) Document progress for our records.

Pictures will be taken to be displayed and explained on our School website and to report to our Funding Partners.

Purpose for the project:

To nurture environmental responsibility in our students. To teach them for life.

Children learn at school and pass the information on to their families and friends. These children in turn become spokespersons for environmental matters when experience at school gives them confidence in their knowledge.

The Outdoor Classroom (OC) links the environment to student learning by providing a natural setting for hands on applications of the elements covered by the Science Curriculum.
See Curriculum Connections (attachment) prepared by SWLPS teachers.

Experiments, observations and discussions will take place in the OC during instructional time.

The construction of our OC by our students (including tree planting, digging planting beds and more) will foster ownership and responsibility in our students.

The study of native species of trees, animals and their native habitats in the OC will instill understanding and appreciation of our project site AND the environment in general.

Description of Project Team

- (i) Brenda Tabe - Parent Volunteer, Playground Sub-Committee, & one of 2 School Council Chairpersons
- (ii) Susanna Jones - Teacher, SWLPS
- (iii) Laurie Finn - SWLPS Principal
- (iv) Parent Volunteers - members of Playground Sub-Committee
- (v) Students will join the project team during the construction phase. Participation throughout OC life.
- (vi) School Council - Funding partner
- (vii) Town of Markham - in kind wood chip mulch
- (viii) Other possible funding partners - Town of Markham (MESF), Sheridan Nurseries, Evergreen

Describe other funding sources/in kind support

- i) \$2000 from Sir Wilfrid Laurier P.S. Council fundraising for start-up costs of contents for planting beds.
- ii) \$1000 from Sir Wilfrid Laurier P.S. Council annually for maintenance.
- iii) Wood chip mulch in kind from Town of Markham
- iv) 40 hours+ project design & research in kind from Playground Sub-Committee
- v) Application to be submitted to Evergreen in September 2009 for additional trees.

How will you promote the MESF fund with this Project?

i) We will erect a sign at the OC location to acknowledge and thank the Town of Markham for their support.

ii) The students and teachers will know that the

"Town of Markham" :

- a) supports education and upkeep of the environment for it to thrive.
- b) provided grant (\$) money to SWLPS to build the OC.

iii) The curriculum supports all aspects of the OC.

Use of the OC will promote understanding of the environment and indirectly acknowledge the Funding Partner (MESF) and the project team who made the site a reality.

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

Our deliverable will be an Outdoor Classroom approximately 30 feet x 30 feet with trees, shrubs & grasses extending the area to the west and south.

See Site Plan showing the proposed location of the O.C. (Appendix "B" & "C")

The OC will include (see Drawing attachment for layout):

- (i) 12 rocks of a size appropriate for seating for 30 students arranged in a semi-circle,
- (ii) native species trees (4 deciduous, 4 evergreen) planted to the south and west to provide shade from the afternoon sun. Each grade to be assigned caregiver duty to one tree.
- (iii) 4 planting beds (3ft x 8ft each; half for each grade) for teachers and students exploration/observation
- (iv) Grasses along fence line.

WORKPLANS/TIMELINES

Spring of 2009 - weather dependent:

- A utilities clearance will be completed.
- The project design will be spray painted on the ground to ensure proper spacing and to determine how the grade of the area and drainage will impact OC placement.
- Students and teachers will be asked to comment of the spray painted layout. Adjustments may be incorporated with supporting reasons. The Playground Committee will ask for "layout" feedback from Teachers willing to conduct trial OC classes on site pre-construction. Final layout will be recorded.
- Armour stones (i.e. seating rocks) will be set in place by a contractor (Ideally to occur before the frost is out of the ground - as recommended by YRDSB).
Note YRDSB policy: If the company comes on-site to install/plant, then the Board would need a Certificate of Insurance, WSIB Certificate and ideally a Health & Safety Policy/Procedure.
- Trees will be planted by students with adult assistance. One tree per Grade. Students to dig, measure, fertilize, plant and stake.
Wood chips supplied in kind by the Town of Markham to be mounded over tree roots on ground surface.
Weather and school scheduling will be considered at the time. Ideally, student involvement during non-instructional time/lunch recess.
- Planting beds. Dig lines will be marked on the ground by Playground committee. Students and teachers will assist into transforming the drawings into actual planting beds.
Weather and school scheduling will be considered at the time. Ideally, student involvement during non-instructional time/lunch recess.
- Signs (4 types - see sign question/answer below) will be ordered then erected.
- Take pictures throughout the process to post on school website and for use in final project report.

In September 2009, teachers at our school will be able to use the OC and reference the elements of this project where curriculum relevant.

The site located adjacent to the East Cathedral Town Community Park will extend this public park as it will be usable outside of school hours by the community.

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

- i) A long-term funding commitment for maintenance to the outdoor classroom will be outlined in the School Council constitution. Amendment to Constitution to be initiated by Brenda Tabé.
- i.e. \$1000/year from School Council funds will be reserved for playground maintenance and teacher supplies for use in the planting beds.
- ii) Brenda Tabé will organize volunteer students and adults during July & Aug. 2009 for watering trees and any other OC site requirements.
- iii) School Council, the Principal, teachers and students will monitor the project area for safety and maintenance. The School Principal, Laurie Finn, may be contacted at the school at 905.927.1452 or laurie.finn@yrdsb.edu.on.ca. Brenda Tabé may be contacted regarding project progress and final report at 416.803.7832 or btabe@hotmail.com.

What are the measurable benefits of this Project?

- i) Student learning during OC construction
- ii) Responsibility for trees of care giving students
- iii) Pride of ownership
- iv) Hands on exposure to curriculum elements for students e.g. Trees help prevent soil erosion, help clean the air, and act as windbreaks. They also provide shelter and food for birds and other small creatures.
- v) Enthusiasm generated with OC as an alternative to indoor classroom
- vi) Creative play & health benefit to children will be associated with OC during recess and after school. Junior students (grades 1-3) will look forward to being Intermediate students with the OC located on the Intermediate/Senior side of the playground.
- vii) Prestige of being a school with an OC. (Camp Tournesol operates at SWLPS location in summer.)
- viii) The OC site is located adjacent to the E.Cathedral Town Community Park, extending the Park property

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

- i) Student learning during OC construction
 - ** Maintained by administration commitment to curriculum connections plus the visual of the site will remind students of the process to implement the OC. Before & after pictures will be posted.
- ii) Responsibility for trees of caregiving students
 - ** Maintainable by \$1000 from School Council fundraising annually for upkeep & commitment from teachers/students. Character Matters assemblies (monthly) may be a forum to talk about responsibility for the environment.
- iii) Pride of ownership
 - ** Maintained by curriculum connections & visual reminders of the steps taken to implement the OC.
 - Tree maintenance strategies (fertilizers, sprays, pruning, hands/feet off) and annual mulch topping up.
- iv) Hands on exposure to curriculum elements for students
 - ** Maintained by curriculum connections and commitment from teachers to use the site as a teaching ground.
- v) Enthusiasm generated with OC as an alternative to indoor classroom.
 - ** Maintained by curriculum connections and student interest.
- vi) Creative play & health benefit to children associated with OC during recess and after school
 - ** Maintainable by the children and their creative play plus \$1000 from School Council fundraising annually.
 - ** YRDSB arranges for the grass to be cut during grass season.
- vii) Prestige of being a school with an OC. (Camp Tournesol operates at SWLPS location in summer.)
 - ** Maintainable by \$1000 from School Council fundraising annually for upkeep.
- viii) The OC site is located adjacent to the E.Cathedral Town Community Park, extending the Park property.
 - ** Maintainable by community using the Park & School property.

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

1. Signs will clarify experimental nature of planting beds. Contents may not intended to be attractive like flower gardens.
2. Signs will describe the requirement to act responsibly toward our trees for visitors to our playground to read.
3. Species label for each tree and the caregiver's grade in 2009. (E.g. Maple, Planted in May 2009, by Grade 1)
4. Acknowledgement sign to Town of Markham for MESF funds awarded and for in kind wood chip mulch.
5. Acknowledgement of other Funding Partners.

APPENDIX "D"

Curriculum and Environmental Connections to an Outdoor Classroom

As a teacher, I see many connections that can be made between an outdoor classroom and the Ontario Curriculum, many which are of environmental interest. I have outlined some of the uses below.

1. The outdoor classroom would be used as an alternative learning space to the indoor classroom. I have noted some Science curriculum expectations that would best be explored in an outdoor setting. Experiments, observations and discussions would take place in the outdoor classroom. The outdoor classroom would include several soil plots which the students could observe and explore. We also hope to plant different species of trees and plants and flowers. During the school year (fall and spring), each class would be given the opportunity to water and maintain the gardens.

Life Systems Grade 3

- demonstrate awareness of ways of caring for plants properly (e.g., ensure that a plant has sufficient light and water);

Life Systems Grade 4

- identify, through observation, various factors that affect plants and animals in a specific habitat (e.g., availability of water, food sources, light; ground features; weather conditions);

Earth and Space Systems Grade 1

- describe, using their observations, changes in heat and light from the sun over a period of time (e.g., measure and describe outdoor temperature changes at different times of the day; observe and describe how the position of the sun influences the length and shape of shadows).

Earth and Space Systems Grade 1

- communicate the procedures and results of explorations and investigations for specific purposes, using demonstrations, drawings, and oral and written descriptions (e.g., write and illustrate a booklet about their observations of seasonal changes; keep a journal recording and describing the weather for a given period of time).

Earth and Space Grade 3

- describe, using their observations, the various components within a sample of soil (e.g., pebbles, decaying plants)

Earth and Space Grade 3

- describe, using their observations, the differences between sand, clay, humus, and other soil components (e.g., texture, smell, malleability), and compare and describe soil samples from different locations (e.g., school yard, forest, marsh, beach)

2. The beginning stages of a school-wide compost system (to be integrated the following year) would be introduced in the outdoor classroom area. Our school currently has several classrooms with small-scale compost systems (Cathy's Critters) and in the spring we will need a designated place to dispose of/use the composted material. We hope to plant

flowers/plants in the outdoor classroom and dispose of the composted material in that soil. Information plaques would be posted in the area describing the process.

We could also create a learning area in one of the plots of soil where we would place different substances that decompose at different rates (i.e., a glass pop bottle, a plastic bottle, a Tetra pack, an egg carton, a piece of paper). A dated plaque would be placed in the soil so that students could gauge the decomposing over time.

Life Systems Grade 2

– describe ways in which humans can help or harm other living things (e.g., protecting endangered species)

Life Systems Grade 4

– describe ways in which humans can affect the natural world (e.g., urban development forces some species to go elsewhere and enables other species to multiply too rapidly; conservation areas can be established to protect specific habitats);

Life Systems Grade 7

– explain the importance of microorganisms in recycling organic matter (e.g., as decomposers);

Earth and Space Grade 3

– demonstrate awareness of the importance of recycling organic materials in soils (e.g., explain the purpose of a compost heap; explain the reason why it is useful to leave grass clippings on the lawn)

In conclusion, I would like to quote from the introduction of the Science and Technology curriculum on Planning Student Programs:

“To ensure that the science and technology program in their school is interesting and relevant, teachers must relate scientific and technological knowledge and skills to issues and problems of the world outside – for example, to the need for sustainable development. Although care must be taken to ensure that the concepts and skills taught are appropriate to students’ stage of development, this emphasis on the relationship of science and technology to the world outside the school must be paramount throughout the program if students are to recognize that science and technology are not just school subjects but fields of knowledge that affect their lives, their communities, and the world.”

Sincerely,

Susanna Jones

Teacher

Sir Wilfrid Laurier Public School

Appendix "E"



EDUCATION CENTRE - NEWMARKET

Facilities Management Centre
1260 Gorham Street, Newmarket, Ontario L3Y 8W4
Tel: 905-727-3141 905-895-7216 905-722-3201 416-969-8131

Fax: 905.830.1640
Website: www.yrdsb.edu.on.ca

February 11, 2009

The Registered Owner of the land at Sir Wilfrid Laurier Public School (SWLPS) is the York Region District School Board (YRDSB).

SWLPS has completed the "YRDSB School Grounds Enhancement Project Application" providing details of the Outdoor Classroom. The proposed project has been reviewed. It complies with Board applicable policies and requirements.

The YRDSB consents to the proposed SWLPS Outdoor Classroom project.

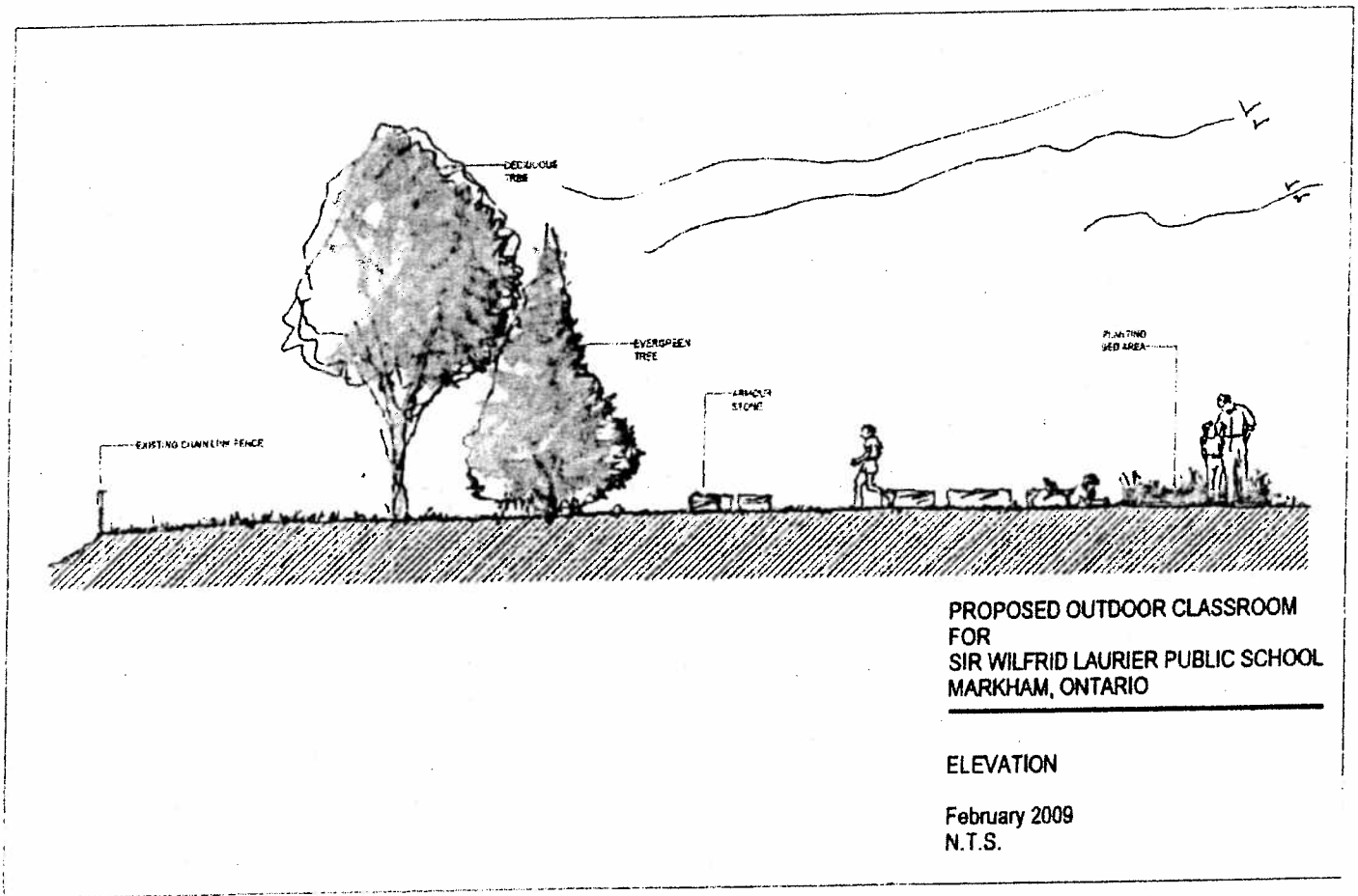
The writer acknowledges that he has the authority to consent to the project and to give consent for the School to apply for funds from the Markham Environmental Sustainability Fund (MESF).

Sincerely,

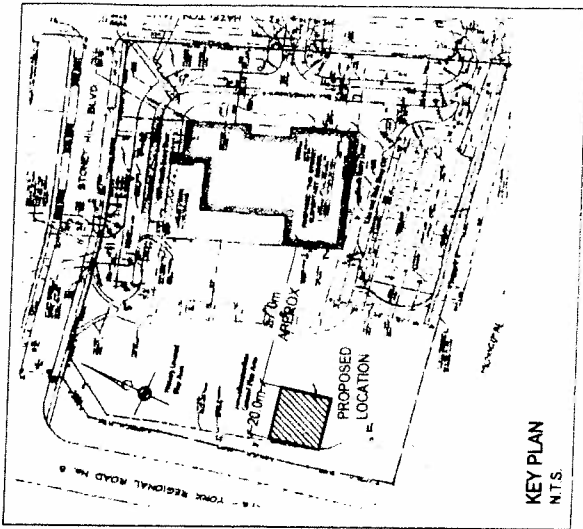
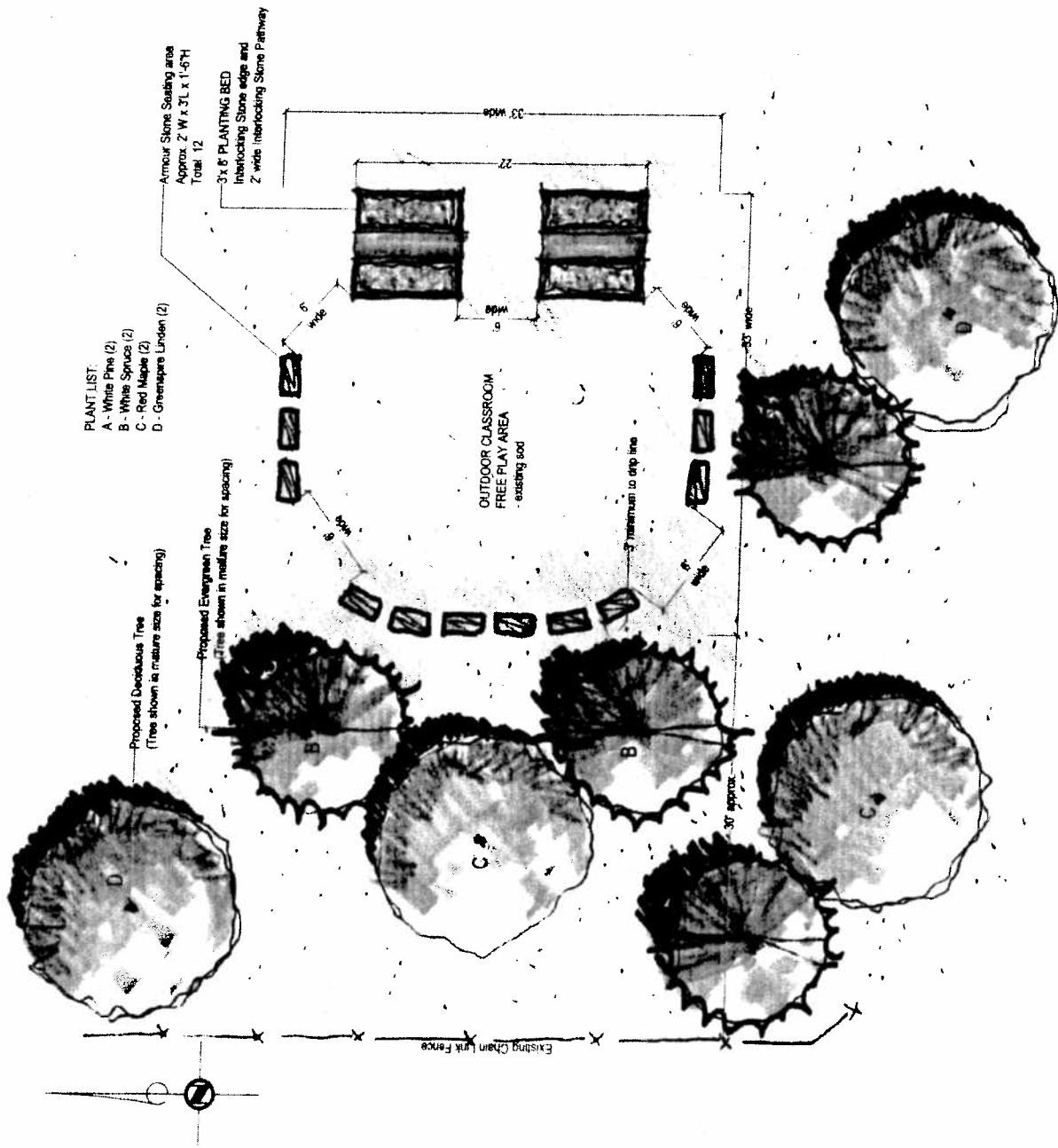
A handwritten signature in black ink, appearing to read 'D. Snelgrove'.

Dave Snelgrove
Superintendent of Plant Services
York Region District School Board

Appendix "F"



Appendix "B"

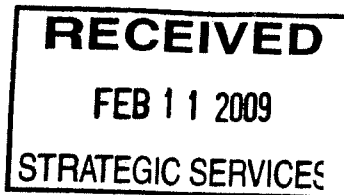


PROPOSED OUTDOOR CLASSROOM FOR SIR WILFRID LAURIER PUBLIC SCHOOL MARKHAM, ONTARIO

LAYOUT AND PLANTING PLAN

February 2009

Scale $\frac{1"}{8} = 1'-0"$



50 Bloomington Road West

*Rec'd 10011/09
Circulated via email Feb 10
C. Smith*

ATTACHMENT 2

February 10th, 2009

Ms. Mavis Urquhart
Manager, Environmental Leadership
MESF
101 Town Centre Boulevard
Markham, Ontario
L3R 9W3

Re: Little Rouge Creek Rehabilitation Initiative

Dear Ms. Urquhart,

Please see attached application for the Little Rouge Creek Rehabilitation Initiative to the Markham Environmental Sustainable Fund.

If you have any questions, please feel free to contact me by phone at (905) 713-7399 or by email at lisa.zucchiatti@ontario.streams.on.ca.

Sincerely,

Lisa Zucchiatti
Project Biologist
Ontario Streams



- An increase in aesthetics and community recreational usage
- ❖ How will you promote the MESF fund with this project?

Ontario Streams will promote the MESF and acknowledge financial support through the newsletter, fact sheets and on the website. These are advertised at trade shows and in communications material that is distributed to schools, landowners and other stakeholders. In addition, the newsletter will also be circulated to approximately 200 Ontario Streams' members and volunteers.

- ❖ Describe other funding sources/in kind support

Funding for this project has been requested to the following government agencies/organizations:

Organization	Funding Confirmed	Cash \$	In-kind \$
MNR CFWIP	No	3,000.00	
Environment Canada HSP	No	5,000.00	
MESF	No	5,000.00	
Ontario Streams	Yes		2,126.00
MNR Bio Support	Yes		1,700.00
Rouge Park	No	6,760.40	
MNR Species at Risk	No	4,000.00	
<i>Subtotal</i>		\$23,760.40	\$3,826.00
Total		\$27,586.40	

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

The benefits to the environment and the community will be seen in the long term as the shrubs and trees that are planted start to grow. They will eventually help to stabilize the soil and reducing the severe erosion and land slumps in this area. The cover provided by the shrubs and trees will help to cool down the stream temperature, improving the water quality and habitat conditions for fish species such as the Redside dace. There are many members of the community who use this area for leisure walks and other recreational activities who will continue to benefit from these rehabilitation efforts.

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

There is no educational sign component to this project as it is a restoration area however Ontario Streams is open to other methods of recognizing financial support from the Town of Markham and MESF.

Spring 2010

- Site visit to check plants (following completion of project, the site will be monitored for three years for maintenance to plants).

Site location (Project will take place between Points A and B):



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

This project will be monitored and maintained by Ontario Streams for three years following project completion. During that time, a site visit will be done each spring and fall to verify the shrubs and trees for rate of survival. Following the three years, it is the OMNR who assumes long term monitoring responsibility.

Ontario Streams
Telephone: (905) 713-7399

- ❖ What are the measurable benefits of this Project?

The following factors will provide an indication of success of the project:

Short-term:

- The number of people that volunteer their time to help plant
- The number of shrubs/trees planted
- The number of shrubs/trees that survive

Long-term:

- An increase in water quality, a decrease in water temperature
- The presence of Redside dace and other sensitive fish species within the area
- A reduction in erosion and an increase in soil stability



Shrub planting along the riparian zone for a minimum of 500m to reduce erosion, stabilize soils, reduce water temperature, and enhance cover and terrestrial habitat.

The present application is specifically for the planting component of this project. The initiative is to plant approximately 800 native shrubs and 100 tree species in the riparian zone on the north and south side of the stream.²

Riparian planting of shrubs along the stream bank will help to stabilize the soils, reduce water temperature, provide cover and enhance terrestrial habitat. To stabilize the stream banks further, some sections will be regraded and planted with fascines lower down on the slope and shrub planting along the top of bank. Benthic and temperature monitoring will be completed at this site to assess water quality.

❖ Description of the Project Team

The project team will include one Project Biologist and four Rehabilitation Technicians for the entire project as well as expertise from MNR Biologists (Aurora) and Doug Forder, Field Supervisor at Ontario Streams. The planting initiative will include one Project Biologist and one-two Rehabilitation Technicians. The other members of the team will be volunteers from the T.E.A.M program at Milliken Mills High School and other interested individuals within the community.

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

NB – this is specifically for the planting component only:

Summer 2009

- Site visit and prep if required.

Fall 2009

- 3-4 days of shrub and tree planting (last week of October-first week of November)

Winter 2010

- Final Report due – MESF

² **NB** - These numbers will depend on 2009 prices and stock availability.
MESF 2009-10 Application – Appendix 1

Appendix 1

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

The component of this project that relates specifically to the present application is the planting of approximately 800 native shrubs and 100 tree species in the riparian zone. This will be done within 0 to 3 meters of the water's edge on both the north and south sides of the stream for approximately 500m from east of 9th Line heading further east. This will create lasting environmental benefits by reducing stream temperature, reduce soil loss and erosion, increase bank stability and create cover and terrestrial habitat. Currently, there are many people who use this space for recreational walks. The present rehabilitation efforts will only increase the aesthetics and outdoor enjoying for the community over the long term.

One of the main goals at Ontario Streams is to help empower communities in conserving their local environment through partnership and exchange of resources. Volunteer participation and environmental education is a strong component of all projects at Ontario Streams. It is through this participation in their own backyards that volunteers learn about the natural environment and how to preserve and restore it in their own communities.

❖ Purpose for the project

This project is part of a larger Redside Dace Habitat Rehabilitation Initiative which is to monitor, protect, and rehabilitate habitat for the provincially threatened Redside dace populations in the Rouge River watershed.¹ Populations of this sensitive species have been declining due to habitat loss resulting from urbanization and intensive land use. The components of this initiative are aimed at restoring historical populations of Redside dace, and creating additional habitat for existing populations.

The entire project will involve in-stream and riparian rehabilitation for a section of Little Rouge Creek located on Rouge Park lands, off of 9th Line and Major Mackenzie. This section is an important migratory corridor for salmonids, linking Lake Ontario with cold water production zones upstream. There are currently Redside dace inhabiting the stream approximately 4-5 km upstream, and there is historic Redside dace habitat just downstream of this site. Redside dace require cool, clear flowing water with sufficient overhanging streamside vegetation. The stream currently has rock and gravel substrate in some sections while other sections are characterized by predominantly fine sediments. This section is comprised of deep runs and deep pools, however there is a lack of in-stream cover. The stream banks are incised and many sections are vulnerable to erosion. In some areas this has caused trees to fall in the stream and debris to collect and reduce water flow.

Rehabilitation for this section of stream will focus on in-stream habitat enhancement and riparian planting. Debris will be cleared in a few areas where it is reducing or blocking the flow of the stream. In-stream cover will be created through woody debris placement such as half log covers, which will be secured to the streambed.

¹ **NB** – As of February 20th, 2009 the status of Redside dace will be increased from Threatened to Endangered.

Markham Environmental Sustainability Fund

Photo Consent and Release Form

I, Lisa D. Zucchiatti 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	Lisa Zucchiatti	Date	Feb. 10th. 2009		
Address	50 Bloomington Rd W.				
Town	Aurora	Province	ON	Postal Code	L4G 3G8
Telephone	(905) 713-7399		Email	lisa.zucchiatti@ontariostreams.on.ca	
Town of Markham:					
Town Representative		Date			

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

Lisa Zucchiatti

Project Biologist

Printed Name

Date

Lisa Zucchiatti

Feb. 10th, 2009

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.

Consent for Photographs received	Yes	No	Photos posted on website?	Yes	No
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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	

BUDGET FORM

Materials, Supplies and Equipment	Cost			MESF	Other
	# of units	Unit Cost \$	Total Cost \$		
Native shrub seedlings	800	5.00	4,000	4,000	
Native tree seedlings	100	10	1,000	1,000	
Chest waders	5	100.00	500.00		500.00
Temperature data loggers/Preserving alcohol			250.00		250.00
Gloves	30		50.00		50.00
Shovels	20		200.00		200.00
Logs			100.00		100.00
Duck bill anchors	10		100.00		100.00
Cable	1		87.00		87.00
Crimps/Crimpers			63.00		63.00
Drill	1		50.00		50.00
Driver	1		30.00		30.00
Sledge hammers	3		60.00		60.00
Trailer	1		600.00		600.00
Vehicle Rental	1		860.40		860.40
Vehicle Costs	1		400.00		400.00
Volunteer Refreshments			100.00		100.00
Sub-total=			\$8,450.40	\$5,000.00	\$3,450.40

Other Expenses

HR – Project Biologist			4,569.60		4,569.60
Habitat technicians (x 4)			9,828.00		9,828.00
Field Supervisor			599.40		599.40
Office resources/supplies			1,200.00		1,200.00
MNR Bio support			1,700.00		1,700.00
Insurance/auto liability			889.00		889.00
Cell Phone			350.00		350.00
Sub-total=			19,136.00		19,136.00
Total			\$27,586.40	\$5,000.00	\$22,586.40

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

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

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

Total Project Cost	\$25,886.40	Amount requested from the MESF	\$5,000
Amount from other sources	\$20,886.40	In- Kind support hours	480

Application Form

For Office Use Only - Project No.:

Group Information

Name	Lisa Zucchiatti, Project Biologist, Ontario Streams		
Address	50 Bloomington Road West		
Phone	(905) 713-7399	Fax	(905) 713-7361
Email	lisa.zucchiatti@ontariostreams.on.ca	Website Address	www.ontariostreams.on.ca
Charitable/Non Profit Organization registration # (if applicable)	Our Group has a bank account in the name of our organization		
Charitable #: 89664-4374 RP0001	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		

Briefly describe what your group does:

Established In 1995, Ontario Streams is a non-profit organization whose mission is to protect and rehabilitate the streams and wetlands of the Province of Ontario through education and community action. Our objectives are to rehabilitate degraded aquatic habitats, increase communication amongst individuals and organizations involved in conserving aquatic environments in Ontario, and act as a catalyst to empower communities in conserving their local environment through partnership building and the provision of resources.

Projects Contacts

Name	Doug Forder, Ontario Streams	Name	
Title	Field Supervisor	Title	
Phone (work)	(905) 713-7399	Phone (work)	
Phone (home)		Phone (home)	
Email	doug.forder@ontario.streams.on.ca	Email	

Project Summary

Title:	Little Rouge Creek Rehabilitation Initiative		
Location of Project	North Donald Cousens Parkway, East 9 th Line (see attached map)		
Name of Registered Owner of the Lands	Town of Markham		
Address of Registered Owner of the Lands	101 Town Centre Blvd., Markham, ON, L3R 9W3		
Contact Name for Registered Owner of the Lands	Town of Markham		
Phone # Registered Owner of the Lands	(905) 477-7000	Duration (months, maximum 12 months)	12 Months
Request for	Spring Funding <input checked="" type="checkbox"/>	Fall Funding <input type="checkbox"/>	Either <input type="checkbox"/>
Start Date of Project	April 2009	End Date	March 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 attachment – Appendix 1)

ATTACHMENT 3

Application Form

For Office Use Only - Project No.:

Group Information

Name	Toronto and Region Conservation		
Address	5 Shoreham Dr.		
Phone	416-661-6600, ext. 5338	Fax	416-667-6277
Email	ccirillo@trca.on.ca	Website Address	www.trca.on.ca/yards
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"/>		
11903-9493-RR0001			

Briefly describe what your group does:

Toronto and Region Conservation (TRCA) has over 50 years of experience in the planning and implementation of environmental protection and enhancement programs, as well as public stewardship and outdoor education. Our mission is to work with partners to ensure that *The Living City* vision is built upon a natural foundation of healthy rivers and shorelines, greenspace and biodiversity, and sustainable communities. Through TRCA's various stewardship programs, including Healthy Yards, we empower watershed residents with the knowledge and tools to become effective stewards of the environment.

Projects Contacts

Name	Colleen Cirillo	Name	Joanne Jeffery
Title	Coordinator, Social Marketing Programs	Title	Manager, Stewardship and Outreach Education
Phone (work)	416-661-6600, ext. 5338	Phone (work)	416-661-6600, ext. 5638
Phone (home)	416-530-0582	Phone (home)	
Email	ccirillo@trca.on.ca	Email	jjeffery@trca.on.ca

Project Summary

Title	Healthy Yards		
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	6 months
Request for	Spring Funding <input checked="" type="checkbox"/> X	Fall Funding	Either <input type="checkbox"/>
Start Date	April 2009	End Date	September 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.**

This project builds upon the well-established partnership between the Town of Markham and Toronto and Region Conservation. It meets all of the objectives listed above by providing the inspiration, information and tools required to help residents create and maintain eco-friendly lawns and gardens.

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**

Markham Green Neighbourhoods will host a speaker series in 2009 to further educate the public on pesticide-related legislation and alternative gardens. Inspiring and knowledgeable speakers, along with TRCA staff, will provide the information, tools and support required to create sustainable residential landscapes. Topics addresses in the speaker series will include: organic lawn care, lawn conversion, water-efficient native plants, downspout disconnection, and invasive garden species.

❖ **Description of the Project Team**

TRCA stewardship staff will coordinate this project with much in-kind assistance from the Town of Markham. TRCA will book space and speakers, set-up and take-down events, create necessary resources, introduce speakers, conduct participant surveys, conduct basic statistics, and report to the town and other interested partners in the fall of 2009.

The town has kindly offered to register participants, provide event space, and advertise events on its website for free. In addition, the town is encouraged to provide related literature and a speaker (on town-specific programs and policies) at events.

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

Six events will be held in libraries across Markham from April to September. Expert speakers will present on various garden-related topics. A working timeline is presented below:

April

Natural and Beautiful – Organic Lawn Care

May

Rain, Rain, Come and Stay

June

Bringing Back the Birds, One Yard at a Time
Designing Beautiful Gardens with Native Plants

July

Bringing Back the Birds, One Yard at a Time

September

Caring for Trees and Shrubs in your Garden

TRCA staff will compile data from event participants and report on the overall success of this project in October.

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

The nature of this project is such that no physical maintenance is required. TRCA staff will remain active in the community and available to event participants long after the speaker series is complete. In addition, participants will be better informed and aware of natural gardening resources in their neighbourhood after attending events and therefore more self-sufficient.

❖ **What are the measurable benefits of this Project?**

Measurable benefits include the installation of rain barrels and other water conservation technologies, the reduction of areas devoted to turf grass, and the creation of water-efficient native plant gardens.

The project's success can also be determined in part by the number of participants at events and the feedback that these people provide at and after events.

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

MESF will be acknowledged on all advertisements and will be thanked verbally at events.

❖ **Describe other funding sources/in kind support**

Both the Town of Markham and TRCA are providing substantial in-kind support, including staff time, venues for events, and advertising. This is detailed in the budget form. In addition, community groups will be invited to assist with promotion and share their expertise at events.

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

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.

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

There are no permanent outdoor signs associated with this project. However, durable display materials will be created and used at all six events as well as at future town and TRCA events.

Please also provide a cost summary including (please use attached budget forms)			
Total Project Cost	\$9400	Amount requested from the MESF	\$5300
Amount from other sources	\$600	In- Kind support hours	112 hrs/ \$3500

BUDGET FORM

BUDGET FORM – HUMAN RESOURCES

Service	Details		In- Kind Value (in hours worked)
	Number of People	Estimated Time	
human resources (TRCA stewardship staff, in-kind)	1 for 84 hrs	84 hrs @ \$30	2520
human resources (TRCA marketing staff, in-kind)	1 for 28 hrs	28 hrs @ \$35	980
Total			3500

Materials, Supplies and Equipment	Cost			MESF	Other
	# of units	Unit Cost \$	Total Cost \$		
expert speaker	6	150	900	900	
refreshments	6	25	150	150	
mileage (trips to Markham)	6	50	300	150	
bags of eco-turf seed*	25	10	400	400	
herbaceous plants*	75	5	375	200	
trees/shrubs*	25	10	250		

Other Expenses

educational handouts			550	550	
promotional materials			50	50	
display materials			200	200	
event space (town, in-kind)	6	100			600
newspaper advertisement**	6	450	2700	2700**	
Total				5300	600

* To be distributed to registered event participants only.

** If the Town of Markham can provide advertising space on the community events page of *The Economist and Sun* for all six events as an in-kind contribution, this item will move into the "other" column and the total ask will reduce from \$5000 to \$2600.

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

Town Website <input type="checkbox"/>	Newspaper advertisement <input type="checkbox"/>	Word of mouth <input checked="" type="checkbox"/>	Other <input type="checkbox"/>
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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, 101Town Centre Boulevard, Markham, Ontario, L3R 9W3. phone 905-415-7502. Fax 905-475-4710. Photos may be posted on the Town's website.

FAX (1 page)

for: Caroline Smith

from: Colleen Cirillo

date: Feb 13/09

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 CCirillo Title Social Marketing Programs Coordinator

Printed Name Colleen Cirillo Date Feb 13/09

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

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

to these terms and uses.

**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			Date	Friday February 13, 2009	
Address	5 Shoreham Dr.				
Town	Downsview	Province	ON	Postal Code	M3N 1S4
Telephone	416-661-6600 x5338		Email	ccirillo@trca.on.ca	
Town of Markham:					
Town Representative			Date		



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

Markham Environmental Sustainability Fund Internal Guide and Application Form

ATTACHMENT 4

For Office Use Only - Project No.:

APPLICATION FORM

PROJECT MANAGER

Name & Position Lorenzo Mele, TDM Coordinator

Department Engineering

Phone (905) 477-7000 x. 4000

Fax (905) 479-7773

Email lmele@markham.ca

Website Address

PROJECT'S CONTACTS

Name Michael Trigiani

Name

Dept. CAN-BIKE Instructor

Dept.

Phone 416.259.4256

Phone

Email cyclewithmichael@sympatico.ca

Email

PROJECT SUMMARY

Title - School Safe Cycling Education
Pilot Project

Location of Project (if applicable)

Markham

Duration (months, maximum 12 months)

3 months (April - June) and 1 month (fall 2009)

Request for:

Spring Funding ☒

Fall Funding ☐

Either ☐

Start Date of Project April 1, 2009

End Date

October 31, 2009

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

The Town of Markham, under the direction of the Cycling and Pedestrian Advisory Committee (CPAC), recently prepared a Cycling Master Plan that is intended to guide and direct the establishment of both on and off road cycling facilities across the Town and connect to neighboring municipalities in York Region and the City of Toronto. As a compliment to establishing a cycling network the Master Plan also includes an education and promotion component intended to encourage and support the increased use of the bicycle as a mode of transportation. A large part of the cycling network is on road and it becomes important for cyclists and motorists to become knowledgeable about their shared responsibilities as road users. Like swimming lessons for children the Town has a role to play in providing cycling instruction programs and developing the capacity to provide training for a greater number of youth and adults. As training levels increase more young cyclists will gain the experience, training and confidence to use their bicycle as a mode of transportation, means of exercise and enjoyment. As Markham residents adopt and incorporate more sustainable modes of transportation like cycling, walking and riding transit into their lifestyles the benefits to their personal health, local air quality and transportation and traffic management in general will improve.

- ❖ **The project is a leading environmental innovation that can be showcased by the Town of Markham;**

The Town began providing safe cycling instruction through the CAN-BIKE program beginning in 2006, and since that time over 500 adults and youth have received CAN-BIKE instruction. In 2007 and 2008 the Town also offered the Kids CAN-BIKE 'Heads Up' training at two local elementary schools and CPAC has an interest in increasing the number of schools and children that are able to participate in the program. To our knowledge this type of a cycling instruction program involving a youth mentorship approach has not yet been carried out in Ontario and would represent an excellent opportunity for Markham to support youth to increase their use of cycling as a mode of transportation.

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

This project supports Markham youth as they are encouraged to increase their use of cycling as a sustainable and efficient mode of transportation in the urban centre and in their local neighborhoods.

- ❖ **Purpose for the project**

The purpose of the project is to develop additional local cycling instruction capacity and to offer safe cycling skills training to a greater number of Markham school children. The instruction framework is based upon the nationally recognized CAN-BIKE programme. The primary objective will be to recruit and train high school students to become Junior CAN-BIKE cycling instructors and over time to encourage high school students to consider becoming certified instructors.

Secondary objectives of this project are; to encourage students to become more active, and to utilize alternate means of transportation, to develop leadership skills in an open environment that requires alertness and confidence by providing them with the necessary training and cycling instruction experience.

- ❖ **Description of the Project Team**

The project team will be composed of a Project Manager (Markham TDM Coordinator), a Project Coordinator – Michael Trigiani, certified CAN-BIKE instructors and High School students who will become Junior Cycling Instructors. The Mayors Youth Task Force will support high school recruitment, the York Region Health 'school team' will support elementary school participant selection and the school board 'traffic planner' will assist with general promotion and program support.

- ❖ **What will your project accomplish? (Include work plan with timelines)**

The project will increase local cycling instruction capacity by training high school students to become 'Junior Cycling Instructors', allowing the programme to be offered to a greater number of elementary school students. The project will improve youth cycling skill levels and help promote cycling as a sustainable form of transportation and recreation activity.

Project Plan

4 steps to building cycling instruction capacity as outlined below:

Step 1 (April) – Program Development

- Recruit 2 (two) Markham high schools to participate in the mentorship program.
- Identify 4 (four) Markham elementary schools to participate in the program.

Step 2 (May) – Junior Instructor Training

- 2 CAN-BIKE Instructors
- 2 High Schools
- 12-15 High School students (total)
- 2 Day programme

Step 3 (June)– CAN-BIKE Program delivery

- 4 Schools
- 2 sessions per school
- 2 CAN-BIKE Instructors
- 6-8 Junior Instructors
- 50 (approx.) elementary students per session

Step 4 (Sep/Oct)– CAN-BIKE Instructor training for Junior Instructors

- 1 Can-bike Instructor
- 6-8 High School Students

❖ Who will maintain and monitor the project after completion?

CPAC and staff would provide general direction and support to monitor and promote the programme and would work with the Mayors Youth Task Force and recreation staff coordinator to provide on-going program promotion and youth recruitment opportunities. It is anticipated that the school boards through the newly created traffic planner position will provide on-going support for cyclists at school sites.

❖ What are the measurable benefits of this Project?

Increasing the local CAN-BIKE instruction capacity will take several years and the collaboration of a number of Town departments and community stakeholders. The pilot program target is to train 6-8 high school youth as Junior Cycling Instructors under the nationally recognized CAN-BIKE programme. Secondary benefits include the promotion of cycling at 2 high schools and 4 elementary schools and a target of approximately 500 elementary students would receive CAN-BIKE safe cycling instruction.

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

The MESF fund will be promoted in any information that is sent when invitations are made to High Schools and Elementary Schools to join the programme.

❖ Describe other funding sources/In kind support

Support from teacher sponsors, community stakeholders including; York Regional Police, Public Health and school board representatives will be vital to the success of the program. It is also expected that members of CPAC may provide additional mentoring and general program support. The volunteer effort anticipated from these organizations has been estimated in the budget summary.

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

The project is intended as a continuous learning process by promoting cycling at a young age in elementary schools and establishing mentoring relationships between high schools and elementary schools and their students. Elementary students that participate in the program are then most likely to continue on to become Junior Instructors in high school and may then graduate to become fully certified instructors. As each group of students become certified, Markham will develop and nurtured a larger pool of future safe cycling instructors that can be called upon to continue teaching programme and provide local youth with recreation employment opportunities as CAN-BIKE Instructors.

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

An educational sign can be placed at each training session. These can be displayed at the sign-in area for participants. The program trainers will be provided with cycling jerseys acknowledging the MESF and program participants will each receive a t-shirt with similar program branding.

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	\$18,360	Amount requested from the MESF	\$10,050
Amount from other sources	\$4,950	In- Kind support hours	336 hrs or \$3,360

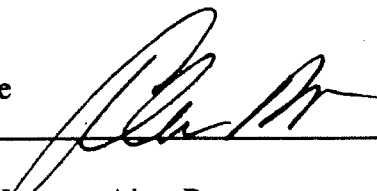
BUDGET FORM

ITEM	Cost			MESF	Other	In-kind
	# of units	Unit Cost \$	Total Cost \$			
School Recruitment	15 hrs.	\$30	\$450		\$450	
Junior Instructor Training 1	50 hrs.	\$30	\$1,500		\$1,500	
Program Scheduling	10 hrs.	\$30	\$300		\$300	
Program Delivery (Certified Instructor)	235 hrs.	\$30	\$7,050	\$7,050		
Program Delivery (Junior Instructor)	336 hrs.	\$10	\$3,360			\$3,360*
Junior Instructor Training 2	30 hrs.	\$50	\$1,500		\$1,500	
Cycling Jerseys	10	\$60	\$600		\$600	
Repair Kit	10	\$50	\$500		\$500	
Participant T-shirts	500	\$6	\$3,000	\$3,000		
Project Signs	2	\$50	\$100		\$100	
TOTAL			\$18,360	\$10,050	\$4,950	\$3,360

* In-kind value of cycling instruction by high school youth based on a rate of \$10 per hr.

DEPARTMENT HEAD'S AUTHORIZATION

Signature



Title – Director of Engineering

Printed Name – Alan Brown

Date – February, 20, 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

For Office Use Only - Project No.:

APPLICATION FORM**PROJECT MANAGER**

Name & Position	Karen Boniface, Technical Coordinator		
Department	Operations		
Phone	905-477-7000		
Fax	905-940-1550		
Email	kboniface@markham.ca	Website Address	Markham.ca

PROJECT'S CONTACTS

Name	Nory Takata, Parks Planner	Name	Deborah Dale
Dept.	Operations	Dept.	North American Native Plant Society
Phone		Phone	
Email	ntakata@markham.ca	Email	nanps@nanps.ca

PROJECT SUMMARY

Title	Native Plant Demonstration Garden		
Location of Project (if applicable)	South west corner of Miller Ave. and Rodick Rd.		
Duration (months, maximum 12 months)	Maximum 12 months		
Request for:	Spring Funding	<input checked="" type="checkbox"/>	Fall Funding <input type="checkbox"/> Either <input type="checkbox"/>
Start Date of Project	April 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.

SEE ATTACHMENTS

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 ATTACHMENTS

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	\$7950.00	Amount requested from the MESF	\$7950.00
Amount from other sources	None	In- Kind support hours	40

3

THE

BUDGET FORM

[illegible]

Other Expenses

Other Expenses					
(e.g. Printing Brochures)	100	0.50	50.00	25.00	25.00
Educational Brochures	5000	0.60	3000.00	3000.00	-----
Total	5403	2157.60	7950.00	7950.00	-----

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

Town Website	<u> X </u>	Newspaper advertisement	<u> </u>	Word of mouth	<u> </u>	Other	<u> </u>
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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, 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 P. Ingham Title GENERAL MANAGER, OPERATIONS

Printed Name PAUL INGHAM Date MARCH 12/09

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

Project Name: Native Plant Demonstration Garden

Purpose:

The proposed project was constructed for the purpose of providing the community of Markham and the Town of Markham staff with an educational opportunity for environmental sustainability. It is intended to provide a native plant demonstration garden that would act as a pilot project through the work of the Town of Markham Operations staff while including the partnership of the Planning and Urban Design department and the charitable organization, the North American Native Plant Society (NANPS).

This project will have many benefits, for example an increased effort for staff team building, demonstration of the Town of Markham's regard for environmental sustainability, stewardship opportunities, restoration of our natural heritage and public education. This project is of a personal interest to the staff in the Operations department with the Town of Markham, they intend on adopting it as their own. They will contribute their time and effort to monitoring and caring for the demonstration garden, so that it may exist for extended enjoyment and future function.

Objective: A demonstration garden that can be the inspiration for future public and private landscapes.

Promotional: MESF will be recognized on the sign, as well as on the Town and North American Native Plant Society websites. It will also be noted for their support at a possible future Lunch & Learn workshop.

Applicants:

The Corporation of the Town of Markham
Operations, Parks Maintenance:
Karen Boniface, Technical Coordinator
Nory Takata, Parks Planner
Dan Prendergast, Tree Preservation Technician

Operations, Forestry and Horticulture:
Steve Matunin, Supervisor, Horticulture

Development Services, Urban Design Group:
Linda Irvine, Manager, Parks and Open Space Development

Location: South West corner of Miller Avenue and Rodick Road

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

Strategic priorities:

The Environment

- Conducive with a greener community through the enhancement of natural areas

- Assist with the advancement of the Town's status as a leader in environmental sustainability through introduction of natural demonstration gardens
- Present public education of native flora and its importance
- Fortify conservation initiatives for the Town
- Supply Town with ability to increase local native plant production

Parks and Recreation

- Strengthen the ability of green spaces to provide local neighbourhoods with active and passive leisure opportunities
- Improve the participation and co-operation of Town staff

Growth Management

- Support the long-term vision of preservation through protection of the local environment and natural heritage

Eligibility:

- Climate change reductions
 - increase green cover of native vegetation to reduce carbon emissions
- Habitat restoration
 - Supply only native vegetation to the area
 - Re-creation of natural meadow and forest wildflower gardens
- Environmental education
 - Community outreach
 - educate the public on how to create and maintain their own native plant gardens
 - provision of brochures as a resources for creating native plant gardens
 - Contribution to natural heritage, education and promotion through the use of an interpretive sign, Town and NANPS websites
 - Ability to involve co-operation of local gardeners and native plant enthusiasts to work in partnership with Town staff
- Provide demonstration of lasting environmental benefits
 - Promotion of water conservation
 - Alternative to traditional gardening that is pest resilient
- Involvement in naturalization activities
- Promotion of environmental and natural gardening and provision of information regarding importance and implementation
- Encouragement of natural home and business landscaping
 - To provide food source (nectar of wildflowers), for honey bees, butterflies, hummingbirds and other birds, as well as, small mammals
 - To provide habitats for the afore mentioned
- Measurable Results
 - Anticipation of successful growth of plants
 - Potential for division and relocation of plants as well as provision of seed
 - Water efficiency
 - First year watering to establish the plants is necessary, as with any new garden

- Minimal watering is required once the plants are established
- Lasting environmental benefits
 - No fertilization required
 - Demonstrates pesticide free gardening
- Potential future results of Pilot Project
 - Continued education for staff and community
 - i.e. staff lunch and learn
 - Implementation of demonstration gardens through out parks
 - Improvement of existing demonstration gardens through out parks
 - Natural home and commercial landscaping

Work plan:

February 11- completion

- Begin by organizing a work group to develop the plan
- Assess the site for buried utilities - initiated

February 13- completion

- Develop and submit the MESF application

February to March

- Continue with the work group to review suitable and available native plants and develop a design

After MESF approval

- Further develop the garden bed design with all the partners
- Develop and prepare the signage
- Hire a contractor to excavate, prepare the bed and install the sign
- Send out the plant list and receive 3 written quotes
- Plant the bed with the working group members
- Monitor, weed & water. Take photographs of its progress and post these on the Town and the North American Native Plant Society websites
- Prepare and execute a lunch & learn workshop
- Encourage other new park developments to have native plants incorporated into park designs
- Encourage community organization to visit the garden and consider native plants in home and corporate landscaping

In Kind Support:

Town of Markham Staff

- Development of planning and planting
- Website and sign development
- Overall project coordination
- Monitoring and maintenance

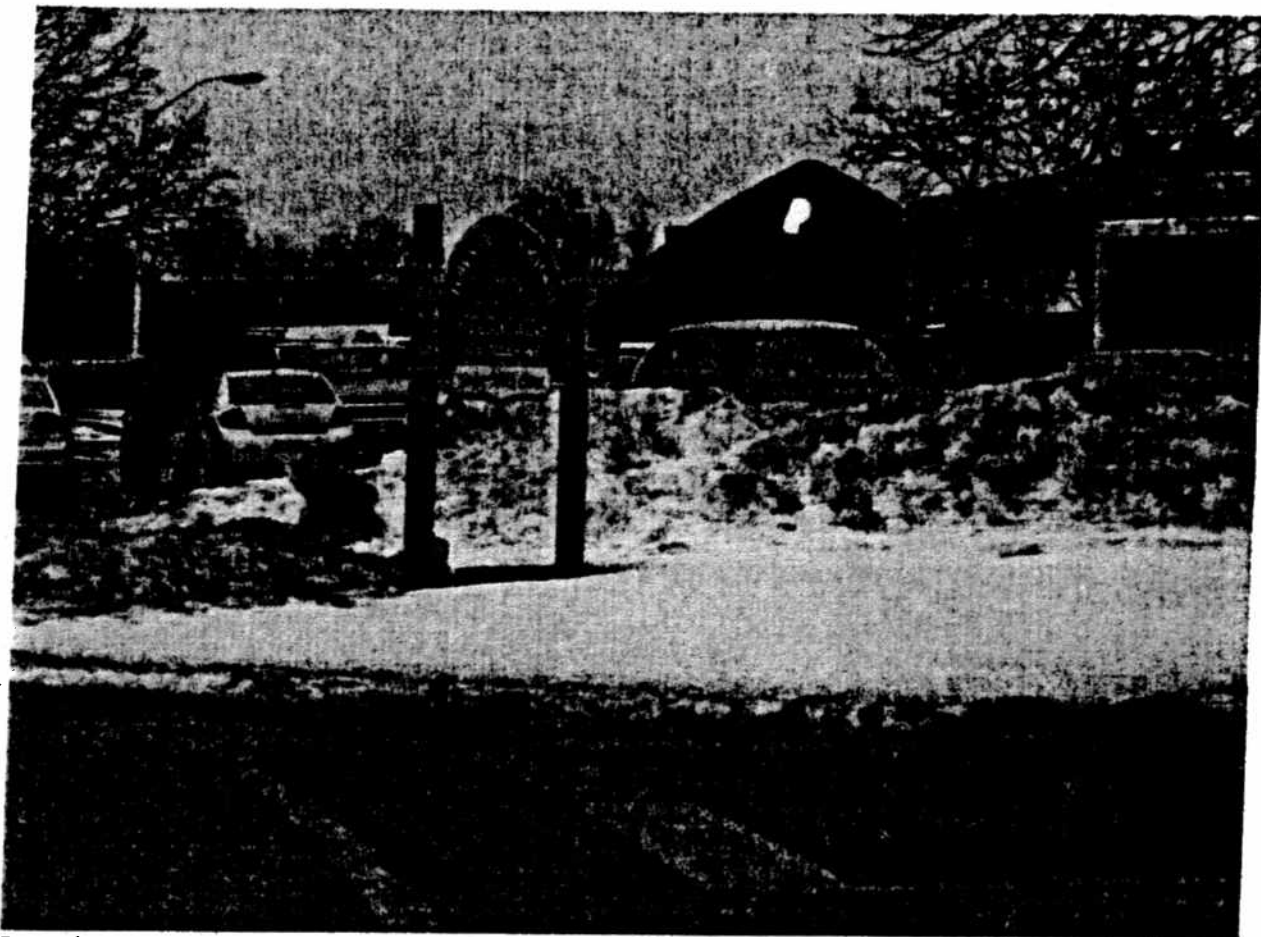
North American Native Plant Society (NANPS)

- Development of planning and planting
- Partnership consultation
- Promotion through NANPS website

- Possible donation of native plants, to be determined at the time of plant selection

Maintenance: The garden will be maintained by Operations staff as an 'adopted project' and it is anticipated that with proper plant selection, the beds will require little maintenance.

Proposed Location for Native Demonstration Garden



Location:

South-west corner of Miller Avenue and Rodick Road, 555 Miller Avenue, Town of Markham-Operations

Note: Proposed location of bed would surround existing Operations sign.

Living with Nature

Southern Ontario's native plants existed in Markham for thousands of years prior to European settlement. They evolved together with native wildlife and insects to adapt to the climate and soil conditions of this region.

Today these plants continue to play an important role in the survival of our natural ecosystems and are valuable sources of food and shelter for wildlife. In fact, some wildlife species diets are limited to certain native plants.

This garden demonstrates the importance of native plant gardens and to give you ideas of what plants you can use to start your own native plant garden.

This native plant garden was established in May 2009 with the collaboration of volunteers and Town of Markham staff.

Logos: North American Native Plant Society (NANPS) and the Markham Environmental Sustainability Fund (MESF).



**NORTH AMERICAN
NATIVE PLANT SOCIETY**

*Dedicated to the study,
conservation, cultivation,
and restoration
of North America's
native flora*

Honorary Patron

Sir David Attenborough, C.B.E., F.R.S.

Honorary President

James A. French

Honorary Directors

Robert Bateman

Frederick W. Lake

Mary Ferguson

Dr. Adrian Forsythe

Glen Lutes

Barley Mowat

Freeman Patterson

Dr. Miriam Rothschild, C.B.E., F.R.S.

Carol Rykert

February 12, 2009

**Town of Markham
Strategic Services
Town of Markham
101 Town Centre Blvd
Markham, Ontario
L3R 9W3**

Attention: Ms. Mavis Urquhart, Manager Environmental Leadership

Re: MESF Application – Native Plant Demonstration Garden

On behalf of the North American Native Plant Society (NANPS), we would like to offer our support of the Town of Markham's initiative to head a pilot project pertaining to the creation of a native plant demonstration garden.


NANPS is a registered charitable organization that is dedicated to the study, conservation, cultivation and restoration of native plants.

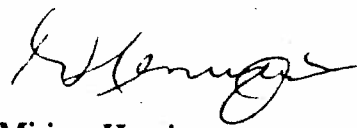
We have had a long standing partnership with Markham, having held many successful plant sales at the Markham Civic Centre since 1991.

We feel this proposal for a native plant demonstration garden is cohesive with our strategic objectives and therefore we are happy to provide them with partnership and support. Deborah Dale, our Treasurer and Past President would be pleased to assist in providing her knowledge and expertise of native plants. This project is also important for the Town of Markham, as it will support your initiative for leadership and innovation in environmental sustainability.

This project serves as an excellent contribution towards environmental education, conservation, restoration and overall, a good example towards a sustainable future for the Town of Markham.

Sincerely,


**Harold Smith
Co President**


**Miriam Henriques
Co President**

FYL

ATTACHMENT 6

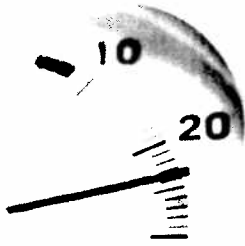
Memo To: Mavis and Shayne

From: Jeanette 905-479-4795wk 905-475-0878hm

Re: Unionville Meadows Public School Markham Environmental Sustainability Fund

1. In mid January 2009, we submitted a copy of our "final" report to Erin Shapero which contains receipts and a summary of our progress, based on your original waste audit of April 2008. (I would like to add, that since that report, our school's day care has purchased reusable plastic cups...they come a long way from using Styrofoam ones!) A second copy of the report was picked up at the school.
2. We have booked a final waste audit through Shayne for April 7, 2009. This 'one year later' follow up audit was at the Town's request, to measure our diversion rate after the implementation of the organic waste curb side pick up. (It was established that we were at a 62% diversion rate in April 2008 and with the organic recycling, it was *projected* that we would achieve an 86% diversion rate. We are all eager to see if we have met our goal!) School staff and Board representatives assist your Town staff. Waste from one day is collected, we sort it on tarps, measure it in blue bin units and display it the gym for the day. Classes rotate in to see it and hear about it. (A Town staff person stayed last time to present to the students.) The Town soon after, provides us with a written report. We are hoping to report and celebrate our new waste diversion rate to our staff and student body at our April 30th Character Assembly.
3. To monitor our recycling contamination rate, we have Green Team members check the classrooms on a regular basis and they run a competition to find the best recyclers in each division, each term, ending in June. The reward is a pizza lunch.
4. You can now better appreciate that our project is not quite complete so we have unspent funds. In the "final" report submitted to Councillor Shapero, we asked for permission to spend the unspent funds on document cameras to help deal with our uncontrollable waste problem. (Going from the projected 86% diversion rate to 100% diversion rate.) We also inquired about applying for an additional \$2,600.00 for document cameras. I would be happy to fill out a formal application for this money, should the committee agree to it in principle.
5. Regardless, I would like to keep the remaining (unspent) \$438.62 to purchase the pizza lunch prizes! I will provide you with those final receipts in June, when the school year ends.
6. In summary: two reports are outstanding ... Town final audit and school spending on remaining funds. A discussion about document cameras needs to happen and results communicated. Final waste audit booked for April 7th, 2009 at UMPS. Celebration of diversion rate April 30th at School Character Assembly.

I hope this was helpful, Mavis. The transition after loosing a staff person can be very challenging. Take care and do not hesitate to call. Shayne has been great to work with!



Energy Savings Incentive Programs Seminar

Hosted by the Town of Markham



March 11, 2009

7:30 a.m. – Registration and breakfast

8:00 – 9:30 a.m. – Presentations

Markham Civic Centre – Canada Room

101 Town Centre Boulevard, Markham

Find out how you can save money and help create a greener community through energy conservation and efficiency.

This comprehensive, one-stop session will connect you with organizations offering financial help for energy-efficient retrofits and upgrades that will save you money and benefit the environment.

Join us for this unique opportunity to hear presentations from, and speak one-on-one with, representatives from PowerStream, Enbridge and Natural Resources Canada and learn about their rebate and financial incentive programs.

This seminar is exclusively designed for owners and property managers of Markham's apartment and condominium buildings.

Space is limited, call 905-477-5530 to register today!

(Registration deadline March 6, 2009)

At this session, you will:

- Hear first-hand about financial incentive and rebate programs offered by PowerStream (electricity), Enbridge (gas and water) and Natural Resources Canada
- Find out if you are eligible for any of these programs
- Learn how to access the incentives and rebates
- Get tips on how to conserve energy and save money on your building utilities.





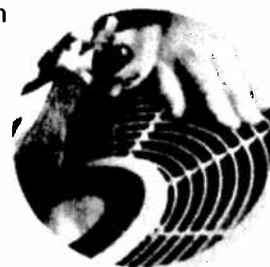
PowerStream is the second largest municipally-owned electricity distribution company in Ontario, delivering power to more than 310,000 residential and business customers in 11 Simcoe County and York Region communities.

PowerStream's Electricity Retrofit Incentive Program (ERIP) offers incentives for sustainable and measurable energy retrofits that result in on-peak demand savings and/or annual energy savings. ERIP focuses on the areas of lighting, motors, heating ventilation, air conditioning and the overall electricity systems. These areas cover the majority of the most important upgrades for businesses operations.

Available funding:

Financial incentives for a custom application start at \$250 per kilowatt saved.

Contact: John Sherin,
Conservation and Demand Management,
Program Administrator
905-532-4427
john.sherin@powerstream
www.powerstream.ca



ENBRIDGE

Enbridge is Canada's largest natural gas distribution company serving 1.9 million customers in Ontario.

Enbridge offers free technical advice on implementing energy efficiency improvements and can put you in touch with companies who have specialized knowledge and experience in a wide range of building systems.

Enbridge also provides incentives and rebates for reductions in gas and water use. Incentives can be provided for high efficiency boilers, higher efficiency water and space heating, Building Energy Management Systems controls, and water conservation measures. Enbridge also runs the MultiCHOICE program which promotes total building energy and water management.

Available funding:

- Up to \$15,000 in audit incentives to offset your cost for an independent HVAC/Energy audit
- Up to \$30,000 in MultiCHOICE Incentives
- Up to \$100,000 in Retrofit Incentives

Contact: Terry Chadwick
Commercial Energy Solutions Consultant
416-753-6669
terry.chadwick@enbridge.com
www.enbridge.com/business



Natural Resources Canada's Office of Energy Efficiency (OEE) offers ecoENERGY Retrofit Incentive for Buildings to help implement energy-saving projects in commercial and institutional buildings up to 20,000 square metres. This includes multi-unit residential buildings with a common entrance that are at least four stories above ground or that have a ground-floor footprint of at least 600 square metres (6458 square feet). The OEE will consider most proven energy efficiency retrofit measures. Note: You must wait until you receive written approval from Natural Resources Canada before starting the retrofit project or incurring eligible costs.

Available Funding:

The incentive for multi-unit residential buildings is based on the lowest of the following three amounts:

- \$10 per gigajoule (277.8 kWh of electricity or 26.1 m3 of gas) of estimated annual energy savings;
- 25 percent of eligible project costs; or
- \$50,000 per project (\$250,000 per organization).

Contact: 1-877-360-5500
info.services@nrcan.gc.ca
www.ecoaction.gc.ca/retrofit



**For more information,
please contact:**

Fred Granek,

Vice President Sustainability, OCETA

905-822-4133, ext. 224

fgranek@oceta.on.ca

Meena Hassanali

Sustainability Programs Manager, OCETA

905-822-4133, ext. 233

mhassanali@oceta.on.ca

Parker Pad has always been conscious of environmental and health & safety issues. Our recent move into our new custom designed facility allowed us to take full advantage of the OCETA program and incorporate pollution prevention in the planning stage. Working with the technical and regulatory expert, John Piggott of EcoSafe, we have eliminated our hazardous discharges, reduced our waste and saved some money. Knowing that we have a support system to ensure we meet or exceed all levels of government regulations offers peace of mind, and that is priceless.

Janis Parker, Parker Pad & Printing

Sponsored by:



Program partner:



Delivered by:



Partnering for a Sustainable Future

**Ontario Centre for Environmental
Technology Advancement (OCETA)**

2070 Hawden Road, Unit 201A

Mississauga, Ontario L5K 2C9

Telephone 905-822-4133 Fax 905-822-3558

www.oceta.on.ca/TORSUS



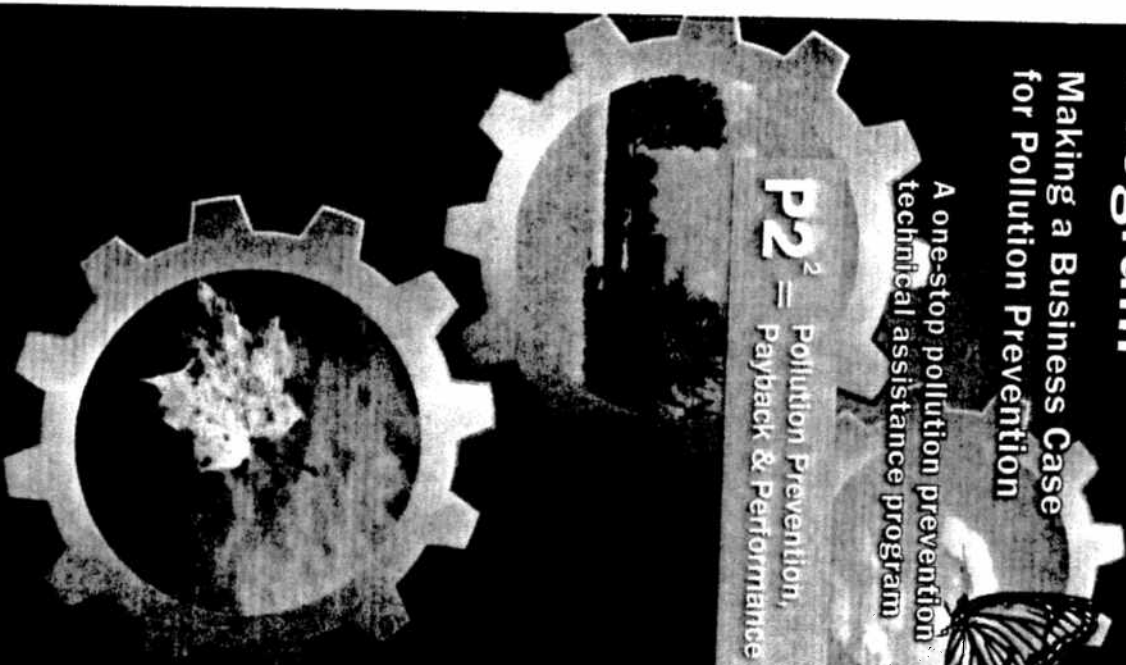
**ATTACHMENT
Markham**

Manufacturers Sustainability Program

**Making a Business Case
for Pollution Prevention**

**A one-stop pollution prevention
technical assistance program**

**P2² = Pollution Prevention,
Payback & Performance**



**For small to medium-sized
manufacturers the
Town of Markham**

About the Program

The Markham Manufacturers Sustainability Program gives small to medium-sized manufacturers located in Markham the opportunity to conduct a pollution prevention assessment. This assessment can identify opportunities for you to reduce source pollutants/waste streams, overall costs and your regulatory exposure. The result is a pollution prevention action plan for your organization to address key environmental issues (i.e. toxics, sewer discharges, smog precursors, green house gases, and hazardous wastes) targeted by all levels of government—Environment Canada, the Ontario Ministry of the Environment, the Regional Municipality of York and the Town of Markham.

The Markham Manufacturers Sustainability Program is part of the GTA-wide Toronto Region Sustainability Program. The program is delivered by the Ontario Centre for Environmental Technology Advancement (OCETA), which is a private, not-for-profit organization. Funding partners include the Ontario Ministry of the Environment and the Town of Markham.

Technical assistance and funding incentive

- Manufacturers with fewer than 500 employees at any one facility are eligible to have a multi-media pollution prevention (P2) assessment undertaken by a pre-qualified pollution prevention consultant from OCETA's roster. The consultant will identify the root causes of priority pollutants and wastes, and recommend solutions to optimize your processes, including innovations in technology, input materials, and operating practices, while reducing energy and water consumption.
- Participants receive a funding incentive of up to 50 per cent (maximum \$5000) to help offset the costs of the pollution prevention assessment facilitated by OCETA.

Reduce Your Costs, Reduce Your Waste & Reduce Your Regulatory Exposure

A pollution prevention assessment and action plan will lead to **improved environmental and financial performance** in the form of **cost savings, reduced liability**, and better marketing opportunities.

An **average payback of less than one year** has been realized by implementing pollution prevention through the program.

By participating in the program, you can:

- Save money and reduce costs
- Reduce business risks and preserve capital asset value
- Reduce or eliminate toxics, sewer discharges, smog precursors, greenhouse gas emissions, and hazardous wastes at the source
- Reduce or eliminate the need for regulatory reporting requirements for all levels of government
- Meet or exceed the regulatory requirements of the Regional & Municipal Sewer Use By-law and the Canadian Environmental Protection Act (CEPA)
- Enhance your corporate image

How Can You Participate?

- You must be a small to medium-sized manufacturer, located in the Town of Markham, with fewer than 500 employees at any one facility.
- Contact OCETA staff for a detailed overview of the program.
- OCETA will then arrange a meeting between you and a pre-qualified technical consultant with expertise in your industry sector to conduct a P2 assessment and provide recommendations specific to your facility.

Program Results



As of February 2009, 67 small to medium-sized enterprise manufacturing facilities from a variety of sectors including, but not limited to: auto parts, chemical, circuit board, electronic manufacturing, food processing, hospitals, metal finishing, packaging, paint manufacturing, printing, and tanker cleaning, have benefited from undertaking a P2 Assessment through the Toronto Region Sustainability Program.

Table 1: Toronto Region Sustainability Program results based on 58 completed P2 Assessments and 323 projects implemented

P2 reductions (annual)	
Volatile organic compounds (VOCs)	737 tonnes
Metals	2.3 tonnes
Hazardous wastes	1,228 tonnes
Water	567,611 tonnes
Ozone depleting substances	45 kilograms

Ancillary benefits expected (annual) — Emission & waste reduction

Greenhouse gases	1,043 tonnes
Hazardous wastes	187 tonnes
PCBs	90 grams

Annualized totals

Savings (annualized)	\$4.8 million
Payback	11 months

PARTICIPATION IN THE PROGRAM IS STRICTLY CONFIDENTIAL

