

# 2014



## **OSSGA INDUSTRY ADVANCEMENT AND STUDENT DESIGN AWARDS**



NEXT GENERATION LEADERSHIP



# OUTSTANDING ACHIEVEMENT IN PROPERTY REHABILITATION

## **CBM Aggregates – A Division of St. Marys Cement Inc. (Canada)**

### **Sugarbush Pit London, Township of West Nissouri**

The goal of CBM Aggregate's award-winning progressive rehabilitation project was to return Sugarbush Pit to a naturalized state featuring a mix of upland and wetland areas.

The 9.7-hectare Sugarbush property is owned by the Upper Thames River Conservation Authority, which has leased the property to CBM Aggregates since 1983. The material extracted from the pit was used to supplement St. Marys' ready mix operation. A seed mix consisting of 30 per cent Timothy, 30 per cent Tall Fescue, 20 per cent Perennial Rye and 15 per cent Birdsfoot Trefoil was used to seed the slopes. A pond occupies 2.7 hectares of the property. Shortly after seeding in 2008, CBM, along with the Upper Thames River Conservation Authority and six school groups from the Upper Thames area, participated in planting over 2,000 woody and 5,000 aquatic plants.

Today, the site has clearly been rehabilitated to a natural state with aquatic vegetation taking hold

within the wetland and fringe areas, and strong evidence of colonization by native vegetation on upland areas adjacent to the wetland feature. Upland woody shrubs included many common species such as Ninebark, Nannyberry and Dogwood species, of which many were noted as having evidence of use by local fauna. The wetland feature and surrounding area are being used by a variety of wildlife species, with evidence of Osprey nesting, regular White-tailed deer sightings, and observations of Mallards and Great Blue Heron on-site. The gradual slopes surrounding the wetland and gravel/stone substrate provide good nesting for several turtle species.



## **A SPECIAL THANKS TO THE JUDGES**

The industry awards review panel is comprised of judges invited from outside the industry, including representatives from the Ministry of Natural Resources and Forestry, Ducks Unlimited and Mayor Dennis Lever of Puslinch Township, and assisted by OSSGA associate members, WSP Canada Inc. and Skelton Brumwell & Associates Inc.

Subject matter experts from the Nature Conservancy of Canada and Ducks Unlimited were invited to evaluate the rehabilitation of the Sugarbush Pit for the Outstanding Achievement in Property Rehabilitation Award.





# COMMUNITY RELATIONS

The Community Relations Award recognizes good neighbourly activities, community involvement, media relations, education and industry awareness.

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**Hellingman**  
COMMUNICATIONS INC

## **CBM Aggregates – A Division of St. Marys Cement Inc. (Canada)**

### **Aberfoyle Pit Township of Puslinch**

A former OSSGA Award of Excellence recipient, CBM Aggregate's Aberfoyle pit is always working to strengthen its neighbour relations. It achieves noise reductions through the use of berms, trees, noise audits and trucking policies, and controls dust emissions and traffic safety with comprehensive policies and site maintenance. Furthermore, Aberfoyle staff participate in a number of community events, including Wellington County's Green Legacy tree planting program, environmental clean-ups, its CBM Fishing Derby, and other local initiatives. They also lead site tours and educational programs for a wide range of community guests and students. These events and more are communicated through numerous publications and Aberfoyle's page on the St. Marys Cement Group website.



## **CBM Aggregates – A Division of St. Marys Cement Inc. (Canada)**

### **Sunderland Pit Township of Brock**

From its sponsorship of the Annual Brock Township Charity Golf Tournament to its support of local sports teams and organizations, Sunderland staff enjoy a mutually beneficial relationship with the community in which the pit operates. The pit's positive reputation is also owed in large part to its noise, traffic and dust control measures – many of which are governed by the Best Management Practice component of CBM Aggregates' Environmental Management System (EMS). Recent equipment upgrades and strict trucking procedures also contribute to a safe and clean site. Moreover, Sunderland keeps its neighbours up to date on all pit news, successes and events through open houses, public appearances and its page on the St. Marys Cement Group website. Site tours, presentations and educational programs round out its multi-faceted approach to community relations.



## **Dufferin Aggregates – A Division of Holcim (Canada) Inc.**

### **Acton Quarry Acton**

Acton Quarry is an integral member of its community, donating manpower, materials and funds to numerous causes and taking great care to minimize the impact of its operations on neighbours. Within its gates, the quarry uses back-up beacons, barrier walls and other equipment to reduce noise, and employs extensive monitoring and neighbourhood consultation to enhance its blasting procedures. Equal efforts are also made to reduce dust, enhance site safety, and address any water-related issues. On-site, Acton Quarry staff host educational tours and programs, as well as the quarry's Annual Open House and events such as tree planting with the Scoutrees Program. The Quarry is also engaged in Holcim Canada's Ready-Mix Drum Sponsorship Program and Dufferin's Together for Communities employee volunteer initiative, and is a strong supporter of local sports teams, festivals, charity events and community organizations.







## Dufferin Aggregates – A Division of Holcim (Canada) Inc.

### Butler Pit Cambridge

Dufferin Aggregates' Butler Pit blends multimedia communications, community outreach strategies and educational programs to stay in strong standing with its neighbours. Beyond providing consistent updates on its [www.dufferinrockstar.com](http://www.dufferinrockstar.com) and [www.holcim.com](http://www.holcim.com) websites, it provides pit updates and job ads in local newspapers and regularly keeps its immediate neighbours informed through hand-delivered letters. Given Butler Pit's smaller size, the staff often uses some of the Dufferin Aggregates' larger sites as a base of operations for presentations, open houses and as originating points for Butler Pit tours. Combined with regular pit maintenance and noise, dust and safety procedures, Butler Pit's respect and care for its neighbours is evident throughout its operations.



## Dufferin Aggregates – A Division of Holcim (Canada) Inc.

### Flamboro Quarry City of Hamilton

Flamboro Quarry prioritizes neighbour relations through its support of community programs, open communication and consistent monitoring of site operations. In addition to implementing noise, dust and traffic safety control measures, the effects of its blasting are minimized through its Blasting Beyond Compliance program and ongoing feedback from its neighbours. Other site initiatives include equipment and site upgrades and proactive measures such as its 2012 Flamboro Quarry Neighbour Wells Project. Further goodwill is generated through material and financial donations to local groups and organizations, including the Canadian Children's Programs, Interval House and East Hamilton Lions Club, among many others. More recently, in 2014 it donated armour stone to the creation of an outdoor classroom at the local Fred A. Hamilton Public School in Guelph.



## Dufferin Aggregates – A Division of Holcim (Canada) Inc.

### Milton Quarry Town of Milton

Milton Quarry's consideration for its neighbours begins on-site where constant maintenance and monitoring help to reduce noise and dust and keep its surrounding roads safe. A variety of communications tools are used to keep residents apprised of relevant industry information, while the quarry's berm wall, Blasting Beyond compliance program, available blasting schedules and enhanced ground vibration control measures further mitigate disruptions. Parallel to its operations, Milton Quarry hosts open houses, site tours, Earth Day events and numerous site events. In the community, it regularly donates money and materials to local charities, sports teams and organizations. Staff also participate in Dufferin Aggregates' Ready-Mix Drum Sponsorship Program in support of Halton Healthcare Services, and Holcim's Together for Communities volunteer initiative. Additionally, they are encouraged to donate their time to initiatives like The Darling Home for Kids fall clean-up, the Chamber of Commerce's annual Scholarship Program and Golf Tournament, and the Townline Road Clean-Up, to name a few.



## Dufferin Aggregates – A Division of Holcim (Canada) Inc.

### Mosport Pit Town of Orono

Being a good neighbour is a chief mandate for staff and management at Dufferin Aggregates' Mosport Pit. Here, numerous procedures and outreach programs minimize the impact of site activity. These include water monitoring programs, traffic policies and the use of CPL noise reduction on loaders. Mosport Pit also leads educational events, on-site tours, and environmental initiatives such as tree planting days and its 2014 Zero Harm Day. Off-site, it supplies volunteer support and financial and material donations to local groups and events. Recent examples include its support of the 2014 Durham Children's Groundwater Festival and the donation of aggregate material for the construction of volleyball courts at the Orono Fair as well as the enhancement of Newcastle's Bond Head Beach.





**Lafarge Canada Inc.**  
**Bearbrook Quarry**  
Gloucester

Whether donating materials for the nearby Diceman Park skating rink or lending support to the Blackburn Hamlet Funfair, Lafarge Canada's Bearbrook Quarry is a familiar and respected name among members of the local community. The quarry itself exceeds MOECC guidelines, implementing noise and visual barriers to further reduce noise. Paving roads, and constant treatment with water using a water truck and a sprinkler system are used to mitigate dust, and Lafarge's Safety Trucker Program ensures that drivers are safe and adhering to proper site procedures. What's more, site staff keep neighbours apprised of blasting schedules and are quick to react when and if community concerns are brought forward. Complementing this is a communications strategy that includes providing updates through [www.lafarge.com](http://www.lafarge.com) and its local publication, attending communication association meetings, and welcoming community members to open houses and educational events – the last of which saw over 900 guests accept an invitation.

**Lafarge Canada Inc.**

**Caledon Pit**  
Town of Caledon

Dust control measures, traffic plans and noise reduction strategies are among Caledon Pit's ongoing efforts to forge strong relationships within its community. Beyond this, staff volunteer their time for road clean-ups, events like Caledon Day and the Annual Conservation Gala, and educational programs like Stay Safe: Stay out of Pits and Quarries. The pit is also a strong supporter of local sports teams and causes. One highlight is its popular Caledon Pit Run, which it launched in 2012 with Aecon Group Inc. to give community members a unique opportunity to enjoy a five-kilometre trail run or a children's one-kilometre fun run through the active pit and participate in tours, demonstrations, kids activities and fundraising events. Proceeds from the event go to different charities each year. In 2014, the Caledon Pit Run raised \$22,000 towards the Headwaters Health Care Foundation.



**Lafarge Canada Inc.**  
**Dundas Quarry**  
Township of Flamborough

Lafarge's Dundas Quarry takes numerous steps to be a good neighbour. These include installing silence kits on equipment to reduce noise, implementing a Best Management Practice Plan to reduce blasting dust, and promoting traffic safety with dedicated turning lanes, signage, traffic lights and driver training. The quarry also supports a wide range of local events and initiatives. Beyond hosting yearly open houses and student education programs, Dundas Quarry was also one of the stops along the 2013 OSSGA Teachers' Tour.

**Lafarge Canada Inc.**  
**Oro-Medonte Pits**  
Township of Oro-Medonte

Oro-Medonte Pits are a cluster of four pits in the same general vicinity and include the Greek Pit, Oro Pit, Orillia Pit and the Roehner Pit. The Oro-Medonte Pits' dedication to building strong community relationships is visible on-site and off. Berms around its active pits help reduce noise; constant watering, dust suppressants and a grizzly bar system on the end of the site's scale minimize dust; and comprehensive health and safety measures keep its roads safe. For its community, Oro-Medonte Pits donate money, materials and support to events and organizations like the Orillia Relay for Life, Orillia Santa Claus Parade, Habitat for Humanity, the Children's Wish Foundation, Barrie Food Bank and Lafarge's own Deep Root volunteer and donation program. News of these efforts and other company updates are communicated through the company's websites, social media messaging, event appearances and industry awareness programs.







## **Lafarge Canada Inc.**

### **Woodstock Quarry** **Township of Zorra**

Woodstock Quarry makes being a good neighbour a top priority. Trees and large berms reduce noise and keep the site aesthetically pleasing, while regular road treatments, site maintenance and safety programs minimize dust and uphold staff and guest safety. Beyond its gates, Woodstock supplies donations, materials and volunteers to numerous community groups and initiatives, including Scouts Canada's Scouttrees program and the Domestic Abuse Services of Oxford. Staff also participate in local events and on-site tours, and welcome community members through its gates for yearly open houses and on-site activities.

## **Walker Industries – Walker Aggregates Inc.**

### **Duntroon Quarry** **Duntroon**

At Walker Industries' Duntroon Quarry, screen decks and regular maintenance are used to reduce noise and dust from site operations, while a full-time traffic enforcer ensures drivers are maintaining the highest standards of safety. Moreover, programs like its blast monitoring system, Public Liaison Committee, and print and online communications make it easy for neighbours to stay up-to-date on site activity and provide feedback. The quarry also plays a role in helping to develop its community by contributing materials to public works projects, supporting community events, and inviting the public to special on-site events like its Annual Neighbour Picnic and BBQ and Wine and Cheese Holiday Reception.



## **Walker Industries – Walker Aggregates Inc.**

### **McGregor Quarry** **Town of Amherstburg**

For the team at McGregor Quarry, being a good neighbour entails taking daily measures to mitigate noise and dust, while keeping the site safe and well maintained. It also means contributing to a wide variety of community events. It was a major partner in 2014's Habitat for Humanity build, a contributor to county highway garbage pick-ups, and is regularly a host to neighbourhood picnics, tours and educational initiatives. Over and above encouraging community feedback, the quarry also publishes a semi-annual newsletter, *BorderStones*, to keep surrounding residents and community members up-to-date on its operations.



## **Walker Industries – Walker Aggregates Inc.**

### **Ridgemount Quarries** **Stevensville**

Community relations takes precedence at Ridgemount Quarries. Staff regularly consult with surrounding residents to make sure all steps are being taken to minimize the effects of its blasting, and its RidgeRock newsletter keeps its community informed on all quarry news. Other efforts, such as site upgrades, noise-reducing bbs-tek Reversing Systems, and regular maintenance keep the site safe and aesthetically pleasing as well. Within its boundaries, Ridgemount Quarries has played host to training exercises for the Canadian Armed Forces and weekly digs with the Delaware Valley Palaeontological Society. Beyond its borders, employees give their time to events like Walker Industries' Touch a Truck fundraiser for children's literacy programs. Ridgemount Quarries also donates to local causes such as Habitat for Humanity and EquineAbility.





## **Walker Industries – Walker Aggregates Inc.**

### **Severn Pines Quarry Township of Severn**

From its Neighbourhood Picnic and Barbecue to its Holiday Wine & Cheese Reception, appearances in Santa Claus Parades and critical role in creating a permanent home for the Orillia Aero Modelers at its Severn Pines Field, Severn Pines Quarry works year-round to strengthen community ties. Staff also work around the clock to keep the quarry quiet, safe and clean. Measures include employing a traffic enforcer to maintain speeds and driver safety along its roads, watering haul roads daily to minimize dust, and installing dust collectors to reduce its impact on air quality. In 2014, Severn Pines Quarry joined other Walker Industries' pits in integrating Explotech with its blasting operation. This provides employees with the tools to analyze and share real-time blasting data with Severn Pines' staff and neighbours.

## **Walker Industries – Walker Aggregates Inc.**

### **Vineland Quarries & Crushed Stone Town of Lincoln**

Vineland Quarries & Crushed Stone forges strong neighbour relations through events such as its Annual Wine and Cheese, community information sessions, and student programs. Furthermore, it is a proud supporter of organizations like Fire Safety for Kids Program and Scouts Canada, and donates armour stone to projects like the War of 1812 Battle of Cooks Mills monument. On-site, Vineland Quarries has invested in numerous site upgrades, including a reconstructed driveway and stop lane, a new water truck, and a Megadome to house production equipment for its fine processing products, which further reduces noise and dust. These initiatives and more are communicated through its bi-annual newsletter, *The Stonevine*.



VINELAND QUARRIES STAFF HELP RESTORE A SCOUTS CANADA HUT



WBQ EMPLOYEES PROUDLY DISPLAY THE SWEATERS AND FOOD TO BE DONATED DURING NATIONAL SWEATER DAY

## **Walker Industries – Walker Aggregates Inc.**

### **Walker Brothers Quarries Town of Stamford (Niagara Falls)**

Walker Brothers Quarries goes to great lengths to reduce the impact of its operations on its neighbours. In 2014, it added two noise-reducing polyurethane screens to its primary plant, adopted Walker Brothers Explotech system to its blast monitoring program, and added new water lines, sensors and actuators to further reduce dust emissions. Outside its operations, Walker Brothers Quarries supports community initiatives like Habitat for Humanity builds; National Sweater Day in support of the World Wildlife Fund; and Walker Industries' own Together We Can volunteer program. These efforts, combined with its PLC Holiday Party, educational days, public appearances and Walk of the Town newsletter, help Walker Brothers Quarries remain in high standing with the community.



# PROGRESSIVE REHABILITATION

The Progressive Rehabilitation Award recognizes ongoing efforts of individual operators in progressively rehabilitating their sites in accordance with their site plans.

Sponsored by



**Walker  
Aggregates Inc.**



## **CBM Aggregates – A Division of St. Marys Cement Inc. (Canada)**

### **Clarington Pit Township of Darlington**

This rehabilitation project took place over 1.5 hectares on the southern portion of Clarington Pit's north pit floor. Its goal was to return the area

to a natural state of pasture for recreational use, following completion of extraction activity in the fall of 2011. The work was completed by CBM employees and Tri-City over two months. In total, 12,000 tonnes of overburden was used from nearby stockpiles to form a gradual slope at a depth of approximately 30 centimetres. Then, 4,000 tonnes of topsoil was applied and spread to a depth of 20 centimetres, after which the area was seeded at 125 kg/ha with a horse mix consisting of perennial rye and buckwheat.



## **CBM Aggregates – A Division of St. Marys Cement Inc. (Canada)**

### **McNally East Pit Township of Puslinch**

Work on this progressive rehabilitation project took place across 2.8 hectares of berms and slope surrounding McNally East Pit's pond. The slopes were graded at 3:1 using 40,000 tonnes of on-site material, and 5,000 tonnes of topsoil was spread to a depth of approximately 20 to 30 centimetres throughout. After grading, a seed mix of buckwheat, perennial and annual rye, alfalfa, tall fescue and white clover was applied at 125 kg/ha. Elsewhere, trees and stumps removed during the original stripping process were used to create a non-uniform pond edge. The ultimate goal of this progressive rehabilitation is to return the 16.3 hectares of land to a natural state that will include a 9.84-hectare pond, a 1.35-hectare natural wetland, and a 2.69-hectare naturalized area.



## **CBM Aggregates – A Division of St. Marys Cement Inc. (Canada)**

### **Sunderland Pit – Area 4 Township of Brock**

This project involved the rehabilitation of Area 4 at CBM Aggregate's Sunderland pit to a natural state of gentle slopes and seeded open fields. Work on the four hectares of land was conducted between May and June 2013. A 3:1 graded slope, developed with on-site material from a previous rehabilitation, was smoothed to create a level surface. Then 8,000 tonnes of overburden was spread to a depth of 30 centimetres, and 4,000 tonnes of topsoil was spread to depths of approximately 20 centimetres. Oversize rocks were also used for swales to prevent erosion. As a final step, CBM applied a seed mix of buckwheat, perennial and annual rye, tall fescue, alfalfa, crown vetch and white clover by hand at approximately 125 kg/ha.





**CBM Aggregates –  
A Division of St. Marys  
Cement Inc. (Canada)**

**Sunderland Pit – Stockpile /  
Sand Pile  
Township of Brock**

Sunderland Pit's sand pile storage area was the focus for this 2013 rehabilitation initiative. The project involved returning the 2.68 hectares of land to a natural state of grassland and forest and involved the teamwork of CBM employees and Earthworx Landscape Products. Work began in 2011, where overburden and topsoil was laid, spread and graded from the berm along the site's tree line. A gentle slope of one per cent was created to supplement drainage. The project required overburden spread to a depth of 30 centimetres, and 4,000 tonnes of topsoil spread to a 20-centimetre average depth. The area was hand-seeded at 125 kg/ha using a mix of annual rye, tall fescue, white clover, crown vetch, alfalfa and buckwheat. Following this, employees planted saplings of white pine, cedar, red osier dogwood, sumac and larch.



**Lafarge Canada Inc.  
Bateman Pit  
City of Belleville**

This rehabilitation project involved one acre of land in the southeast corner of Lafarge Canada's Bateman Pit. The area consisted of a paved entrance way and a foundation for weight scales. Work required stripping the area with a hoe ram and disposing of the asphalt with trucks. Following this initial phase, an excavator was used to place fragmented concrete in the area and a bulldozer was used to level out the surface. The area was then covered with topsoil acquired during ongoing pit operations and seeded with a mix of creeping red fescue, perennial ryegrass, Kentucky bluegrass and white clover.



**CBM Aggregates –  
A Division of St. Marys  
Cement Inc. (Canada)**

**Westwood Pit  
Town of Westwood**

This progressive rehabilitation project took place at Westwood Pit's 4.25-hectare central floor area. The goal was to transform the land for recreational and agricultural use until extraction re-commences, after which final rehabilitation will take place and include the creation of a pond. The work was conducted from September to November 2013, and involved grading slopes to 3:1 by back-filling on-site material from the west side of the pit. A total of 7,000 tonnes of topsoil was spread to a 20-centimetre depth while 18,000 tonnes of overburden was spread to depths of 30 to 70 centimetres throughout. An ATV seeder was used to apply a seed mix of perennial rye, sweet clover, oat and timothy at a rate of 125 kg/ha.



**Lafarge Canada Inc.  
Flaherty Central Pit  
Town of Caledon**

The northeastern portion of Flaherty Central Pit's "Phase 1" site was the focus of this rehabilitation project. The goal was to return the parcel of land to agricultural use. Work took place over two weeks and involved three stripping phases. Once final extraction faces were achieved, Tri City Equipment was called upon to grade the overburden and topsoil to achieve 3:1 side slopes along the south and west end of the section. All materials were taken from existing stockpiles.



**Harold Sutherland  
Construction Ltd.**

**Shepherd Pit  
Township of Chatsworth**

The goal of this progressive rehabilitation project was to return a portion of Shepherd Pit to agricultural use, similar to its neighbouring farmlands. Work took place over May 2014, during which pit faces were sloped and graded to 4:1 along the west boundary and 7:1 along the south and north during subsequent phases. Topsoil taken from nearby berms was used to spread over the area at a depth of approximately 10 to 15 centimetres on the slopes and pit floors. Following completion of this project, a total of 4.5 hectares had been progressively rehabilitated. The total licensed areas to be rehabilitated comprise 25.9 hectares. Looking ahead, the plan is to crop the area with corn, beans, barley or wheat in spring 2015.



**Walker Industries –  
Walker Aggregates Inc.**

**Duntroon Quarry  
Duntroon**

This progressive rehabilitation project took place over Duntroon Quarry's perimeter boundaries, and included the creation of a perimeter road. Work began at the southwest corner towards the final goal of achieving 2:1 sloping from the top of the rock to the quarry floor. The ongoing project saw 75,000 cubic metres of overburden placed for side sloping, taken from the storage on the quarry floor. Final plans will see 36 hectares of the 57.5-hectare site become a lake near the southwest corner. In the future, the progressive rehabilitation will see parcel one of the Duntroon Quarry land conveyed to the Bruce Trail Association two years after site plan approval, and parcel two within five years. At time of print, final rehabilitation was 90 per cent complete.



# PROPERTY ENHANCEMENT

The Property Enhancement Award recognizes operational best practices in the following areas: entrance, approach and perimeter screening, office and scale house areas, employee areas, plant appearance, environmental controls, truck and mobile equipment, and communicative signage.

Sites that initially meet the minimum requirements in each of the aforementioned sections are awarded a plaque. Site operators are then able to win a “gold” bar for each section by meeting the comprehensive list of criteria for each. There are a total of seven “gold” bars that can be achieved.

## Lafarge Canada Inc.

Burford Pit

Township of Brantford

Plaque





# STUDENT DESIGN COMPETITION

The Student Design Competition is an opportunity for students to develop industry standard site plans while employing their creative abilities in determining the best pattern for extraction, progressive rehabilitation and creating an innovative concept for final end use. Winners are recognized for accuracy, innovation and overall presentation of the ecological revitalization of a former pit or quarry. This year, students were challenged to create site plans for Lafarge Canada Inc.'s Uxbridge (Regan) Pit and Uxbridge Township's 7th Concession Pit, located in the Township of Uxbridge in the Region of Durham.

## 1ST PLACE (\$3,300)

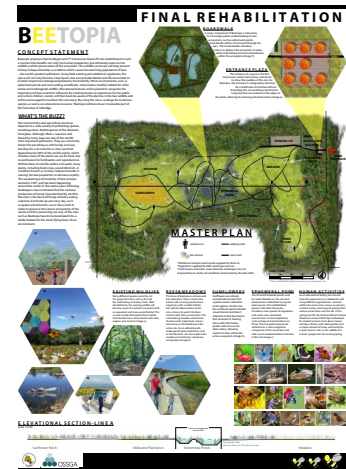
### Beetopia

Belinda Ching, Monica Kwok, Lily Xia  
University of Guelph

This first-place submission sees the Regan and 7th Concession Gravel Pit transformed into Beetopia, a wildlife sanctuary that focuses on preserving bees and raising awareness on these world-class pollinators.

The rehabilitated site creates a sustainable refuge for bees using new and existing vegetation, a sunflower patch, meadows and custom-made homes. It also utilizes ephemeral ponds, green spaces and the site's surrounding woodlands to create a natural habitat for native and endangered wildlife.

The plans for Beetopia encourage exploration and discovery. Guests can explore the site via boardwalks and take advantage of other public features such as a mixed-use building, outdoor spaces and the site's eye-catching entrance plaza. More importantly, Beetopia is designed to provide learning opportunities for all ages, while ultimately bringing attention to Beetopia's many natural residents.



## 2ND PLACE (\$2,100)

### Loggerhead Shrike Park

Rebecca Helm, Yaermaimaiti Manzure, Adjah Vangah  
University of Guelph

The goal of this submission is to breathe new life into Regan and 7th Concession Gravel Pit through the creation of an Oak Savanna habitat. This is accomplished through the foundation of a new Loggerhead Shrike Park, which is designed to support the region's Oak Ridges Moraine ecology and educate the public on the various bird species, animal habitats and history within it.

Environmental features of Loggerhead Shrike Park include a wetland habitat, surrounding woodlands, and the Oak Savanna habitat itself which will include a variety of oak trees, wildflowers, native grasses, and low-growing shrubs. Visitors can experience these natural highlights firsthand while hiking through walking trails, taking a break at observation points, and enjoying presentations and educational programming at the visitors' centre and old house checkpoint.

Also notable is the submission's plan to use Loggerhead Shrike Park as an extension of Mountain Equipment Co-op's big-wild challenge. This will bring a further sense of adventure and interaction to the Loggerhead Shrike Park's trails and natural environments.



## 3RD PLACE (\$1,000)

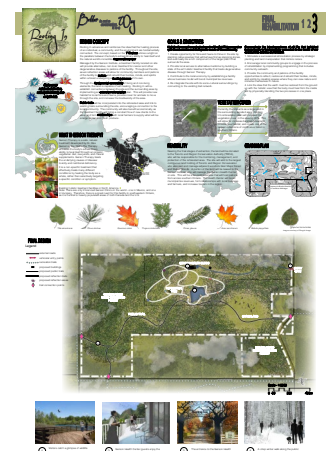
### Rooting In

Michelle Peeters, Richard Stethem  
University of Guelph

Drawing inspiration from the seven Chakras, this plan seeks to support the Oak Ridges Moraine's ecological needs while providing a therapeutic resource for the community.

The submission, entitled Rooting In, envisions a habitat for local animals and vegetation through extensive reforestation. It also includes the creation of a Gerson Health Centre, a state-of-the-art holistic treatment facility that would care for guests with degenerative diseases based on the whole-body and natural healing principles of Gerson Therapy.

To further promote the regenerative powers of its natural environment, Rooting In includes plans for public trails, observation points, and seven reflection points based on the seven core Chakras. Combined, the goal is to give park visitors and Gerson facility patrons the opportunity to heal alongside the site's natural flora and fauna.





# STUDENT DESIGN COMPETITION

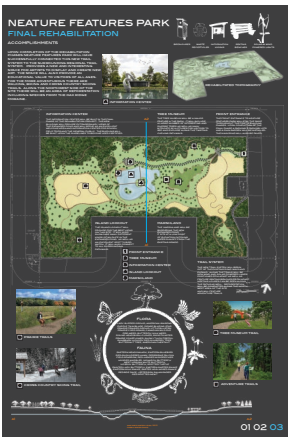
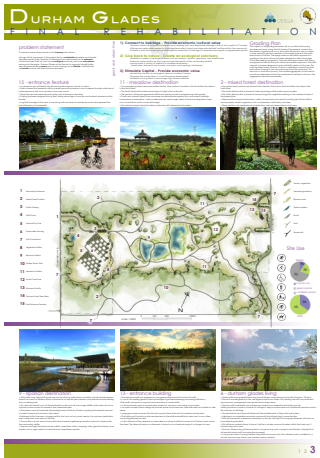
## HONOURABLE MENTION (\$600)

### Durham Glades

Bart Bouwmeister, Ben Leger, Even Short  
University of Guelph

Durham Glades seeks to reunite humans with their natural environment by providing an ecological sanctuary and educational resource to the Uxbridge community. The submission calls for the development of numerous ecological zones (aquatic, riparian, grasslands and mixed forest), as well as native wildlife habitats and green-built public structures that will be home to educational programming, community events and wildlife preservation initiatives.

The plan also proposes a small housing development, Durham Glades Living, which will embrace sustainable living and encourage residents to strike a greater balance with their natural environment. Both residents and visitors of Durham Glades will also benefit from an extensive trail system, boardwalks, a natural play park and multi-purpose pavilions.



## HONOURABLE MENTION (\$600)

### Neature Features Park

Brent McDougall, John Bright,  
Nathaniel Grant  
Fanshawe College

This goal of this submission it to provide an ecologically friendly park that facilitates exploration of the rehabilitated environment and provides local artists with an eco-friendly venue to display their work. Highlights of the plan include an outdoor tree and art museum, a LEED-certified art gallery, and an island lookout over the site's expanded pond.

Additionally, Neature Features Park will build upon the region's Oak Ridges Moraine with the inclusion of a tall grass prairie, rain gardens and marsh area, and will use species of the region's trees for reforestation.

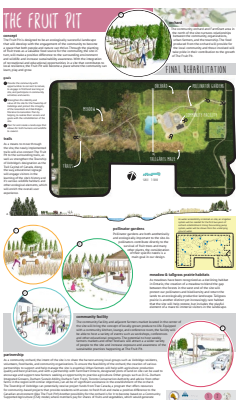
## HONOURABLE MENTION (\$600)

### The Rain Barrel Eco-Centre

Chelsea Allan, Andrew Merrett, Linda Pringle  
University of Guelph

The goal of this submission is to use Lafarge Canada's site as hosting grounds for the Rain Barrel Ecology Centre. The facility will function as an indoor learning experience that will expose community members, students and other guests to the history, functions and importance of Ontario's Oak Ridges Moraine.

The centre will be a focal point of the rehabilitated site. It will be complemented outside its doors by interpretive trails, a picnic area, recreational activities, an amphitheatre and a yurt campground that will allow guests the opportunity to camp overnight within the heart of the rehabilitated land.



## HONOURABLE MENTION (\$600)

### The Fruit Pit

Logan Cooper, Emily Dance, Mallory Thacker  
University of Guelph

The Fruit Pit foresees a site where visitors are encouraged to learn, play and grow among one of Ontario's most valued ecological regions.

At the heart of this community-oriented submission is a community orchard, where urban farmers, local groups, residents and organizations can join FarmStart Ontario in harvesting fruit plants for various local initiatives. The site will further support both natural and community growth through the addition of public trails, meadow, a tall grass maze and a community facility that will host education initiatives, workshops, a community program, and a regular farmers market.