

2013



OSSGA INDUSTRY ADVANCEMENT

AND STUDENT
DESIGN AWARDS

LEADING THE WAY

AWARD OF EXCELLENCE

The Award of Excellence is the top award that an active site can achieve in the OSSGA awards program. The Award recognizes outstanding achievement in all aspects of an aggregate operation. It is given to an aggregate pit or quarry that has already earned the Progressive Rehabilitation Award, the Community Relations Award and the Property Enhancement Award (including all seven “gold” bars). The recipients of this award are producers that go above and beyond industry standards in all these areas of consideration.



Lafarge Canada Inc.

*West Paris Pit
Paris, ON*

Lafarge's commitment to continuous improvement in property enhancement, progressive rehabilitation and community relations can be seen by the continual improvements at the site, including the entrance and perimeter, contributions to the community, partnerships with the municipal government, and a strong relationship with neighbours. Much effort is invested in maintaining property grounds, which are pleasant to view from the highway. Each year staff do a site review and look for opportunities to improve the site. Positive community relations are very important. Lafarge transferred over 60 acres of the East Paris pit to the County of Brant for the creation of the Green Lane Sports Complex. Lafarge has completed rehabilitation on two final extraction faces and one area on the pit floor, including grading of the site and planting crops to promote agricultural use.

A SPECIAL THANKS TO THE JUDGES

The industry awards review panel is comprised of OSSGA members WSP Canada Inc. and Harrington McAvan Ltd, as well as judges invited from outside the industry, including representatives from Coalition on the Niagara Escarpment (CONE), the Cornerstone Standards Council, Ducks Unlimited and Mayor Dennis Lever of Puslinch Township.

The Environmental Award and Student Design Award review panels were comprised primarily of Associate Members from OSSGA's Rehabilitation, Environment and Species-at-Risk committees. We were pleased to have Ducks Unlimited participate as an external judge for the Environmental Achievement Award this year.

ENVIRONMENTAL ACHIEVEMENT AWARD

Sponsored by



The Environmental Achievement Award recognizes OSSGA members that have developed and successfully implemented industry-leading policies, programs or projects that make positive contributions to the environment and motivate leadership within the industry.



Dufferin Aggregates – A division of Holcim (Canada) Inc.

*Acton Quarry
Acton*

Dufferin Aggregates' Acton Quarry is a leader in environmental innovation thanks to the installation of its amphibian breeding pool. Part of a pilot initiative, the pool was developed on the north-facing side of an established forest to provide shade and other supporting conditions and has already been deemed a success for breeding Jefferson Salamander. This was verified by programs set up to assess the pool's water quality, ability to sustain amphibian life and effectiveness of surrounding vegetation. The successful pilot also paves the way for Dufferin's plans to construct six additional amphibian breeding pools, as proposed in its 2009 Acton Quarry extension application.



Miller Paving Limited

*Carden Quarry
City of Kawartha Lakes*

To enhance operational efficiency and optimize its water usage at its Carden Quarry, Miller Paving set out to reduce and reuse ground water. It did so by reducing the particulate from wastewater with a KPI Fines Separator with Dewatering Screen, purchased in 2012, which has enabled the recovery of 80 per cent of solids from wastewater, making it possible to be stacked and sold instead of classified as waste material. The recovery of fines led to increased product gain by 17 per cent without having to use additional ground water. Furthermore, greenhouse gas emissions and potential for spills from equipment are reduced now that the time required to clean the sediment pond has dropped by 80 per cent (560 hours per year).



Miller Paving Limited

*Patterson Quarry
Huntsville*

Patterson Quarry's air quality and waste reduction project has generated substantial benefits for the site and its community. Miller focused on minimizing the loss of fines in aggregate processing with the installation of a gravitational industrial classifier in 2011. This led to a 46 per cent reduction in water use at the site, and greatly reduced particulate matter emissions across all processes. Additionally, the project has increased the finished product yield by eight per cent, and aided in the quarry's ability to reduce waste in directing byproduct from the baghouse into a stackable product that can be blended and sold. The success of Patterson Quarry's air quality and waste reduction efforts will be studied and used to help other, smaller-sized operations within the Miller Group achieve similar results.

ENVIRONMENTAL ACHIEVEMENT AWARD

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Walker Industries Walker Aggregates Inc.

*Severn Quarry
Township of Severn*

Severn Quarry's air emission reduction initiative began in 2011 when testing for its new processing plant determined the need to mitigate emissions from the new facility. This was accomplished by identifying and installing technologies and practices that meet the facility's requirements and improve its operations. Solutions included the installation of dust collection systems. The dust mitigation system is comprised of a vacuum which draws dust from the conveyors to a bag house and bin. The dust is dumped into a truck via a spout which raises and lowers, preventing a 'dust bomb' effect typically created when aggrline is released from the discharge spout. Also incorporated was a configuration of conveyor belting utilizing belt "flipping" technology to keep the dirty sides up, resulting in less clean-up or need for internal combustion equipment thereby reducing fuel consumption and carbon emissions.

COMMUNITY RELATIONS AWARD

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Hellingman

Communications Inc.

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



Dufferin Aggregates – A division of Holcim (Canada) Inc.

*Acton Quarry
Town of Halton Hills*

Acton Quarry has numerous processes in place to reduce its operation's impact on nearby neighbours. These include installing back-up beacons on its mobile equipment, curbing night-time noise, conducting regular inspections for fugitive dust and its "Blasting Beyond Compliance" program. The quarry also hosts community events like its annual Earth Week Tree planting and keeps up contact through its Community Liaison Committee. It makes regular monetary donations to local sports teams, events and charitable organizations, and is also involved in educational efforts. These include partnering with Earth Rangers for the *Bring Back the Wild* campaign and conducting tours for students of the University of Toronto's Geography and Environmental Studies course.



Dufferin Aggregates – A division of Holcim (Canada) Inc.

*Cayuga Quarry
Cayuga*

Cayuga Quarry has taken many steps to maintain strong relationships with its small, southwestern community. Neighbours are kept abreast of blast schedules and are encouraged to provide feedback, while higher-than-normal readings from surrounding seismographs are reported and acted upon immediately. The quarry is surrounded by high berms and heavy vegetation, further reducing noise and dust, and traffic policies and signage help keep surrounding roads safe. Community relations are further strengthened through constant updates via social media and company publications, as well as participation in the local Community Advisory Panel. The quarry regularly donates to local groups like the Cayuga Police Association, Camp Trillium, Wayne Gretzky Elementary School and Trout Unlimited, and takes part in numerous educational programs.

COMMUNITY RELATIONS AWARD

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Hellingman

Communications Inc.



Dufferin Aggregates – A division of Holcim (Canada) Inc.

*Flamboro Quarry
City of Hamilton*

Open communication, constant monitoring and continual site improvements help Flamboro Quarry maintain strong neighbour relations. In recent years, the site implemented strict traffic policies to ensure safety in and around the site and conducted extensive monitoring to ensure the effects of its blasting were kept to a minimum. Goodwill is generated through donations to local groups and organizations, including Canadian Children's Programs, East Hamilton Lions Club and the Interval House. Material donations are made to local schools, while a neighbour load donation plan was set up to supply each neighbour within a designated area with a free load of aggregate each year. Other community initiatives include a Community Advisory Panel, open houses and a role in creating the Flamboro Quarry Community Garden.



Dufferin Aggregates – A division of Holcim (Canada) Inc.

*Milton Quarry
Town of Milton*

Milton Quarry's commitment to community relations is evident through its constant monitoring, public feedback programs and operational initiatives designed to address the site's noise, dust, traffic safety and water quality concerns. The quarry is active in the local community, donating to a number of sports clubs and charitable organizations, and also supports community events and trades education programs. In 2013, as part of Holcim's "Together for Communities" volunteer initiatives, Milton Quarry supplied volunteers for community efforts such as the Townline Road Clean Up, Halton Children's Water Festival, Milton Chamber of Commerce Farmer's Market, and a Bruce Trail Association event.



Dufferin Aggregates – A division of Holcim (Canada) Inc.

*Mosport Pit
Town of Orono*

Mosport Pit's community relations strategy includes various efforts, such as hosting annual open houses, donating to local ventures like Scouts Canada and the Orono Fair Grounds, and supporting Orono Park's 90th Anniversary celebrations as well as the Bowmanville Santa Claus Parade. Inroads into the community have come about through Mosport Pit's participation in quarterly communication sessions, constant social media interaction, and employee engagement in Dufferin Aggregate's outreach programs. Continual monitoring, site maintenance and the installation of new technologies, such as a CPL noise reduction system for loaders, has successfully led to reduced noise and dust to the benefit of surrounding residents.

COMMUNITY RELATIONS AWARD

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Communications Inc.



Dufferin Aggregates – A division of Holcim (Canada) Inc.

*Ogden Point Quarry
Colborne*

Ogden Point Quarry's commitment to community relations is seen in its continued site improvements, noise monitoring and reduction efforts, dust minimization processes (via water truck spraying and enhanced drill designs), and traffic and water quality maintenance – much of which is aided by its ability to transport limestone by ship. In addition to establishing a Community Advisory Panel, the quarry hosts regular open houses and tours, and consistently communicates with neighbours through publications, face-to-face surveys, social media and events. Ogden Point Quarry also donates its time and staff to sports initiatives, community events such as Music In the Square and Festival of Trees, and organizations such as Habitat for Humanity Northumberland.



Harold Sutherland Construction Ltd.

*Redford Pit
Municipality of West Grey*

Redford Pit staff took significant steps to control the noise, dust and traffic generated by site operations. This includes constant monitoring programs, consultations with neighbours, and adherence to strict traffic schedules and safety guidelines. Harold Sutherland Construction sponsors local sports leagues and donates prizes and manpower for community events. Company president Harold Sutherland was honoured by the Owen Sound Sports Hall of Fame for his long-running support of local sports. The company is also actively involved in educational initiatives with students – hosting information days for MNR students, supporting career days, and participating in OSSGA's video contest.



Walker Industries – Walker Aggregates Inc.

*Duntroon Quarry
Duntroon*

From its Annual Neighbourhood Barbecue to its Holiday Wine and Cheese Reception and Public Liaison Committee, Duntroon Quarry takes pride in the lasting partnership it has built with its neighbours. The quarry takes constant measures to assess and address noise levels, reduce dust, and monitor and address public feedback concerning on-site blasting. Duntroon Quarry sponsors the Stayner Siskens Hockey Club, as well as numerous community events and organizations. This includes the Walker Aggregates' "Together We Can" food bank collection initiative in the Simcoe Region.

COMMUNITY RELATIONS AWARD

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Hellingman

Communications Inc.



Walker Industries – Walker Aggregates Inc.

Severn Quarry

Township of Severn

Severn Quarry's Public Liaison Committee meets throughout the year to address various aspects of the quarry's operations with the general public. The quarry also employs a retired police officer to monitor site traffic, and uses an environmental dust collector and water truck to minimize the negative dust impact. In addition, it is engaged in noise monitoring and minimization projects. In terms of community involvement, the Severn Quarry hosts an annual Public Liaison Committee Barbecue and a holiday reception, and also supports local organizations and events, including the Coldwater & District Agricultural Society and the Food Challenge for "The Sharing Place."



Walker Industries – Walker Aggregates Inc.

Vineland Quarries & Crushed Stone

Vineland

Walker Industries' Vineland Quarries and Crushed Stone takes great effort to keep its neighbours constantly updated on site activities. It also implements technologies such as the bbs-tek Reversing System to reduce noise as much as possible. The company is committed to supporting local organizations through donations and volunteer support, and does so for such groups and events as Scouts Canada, the Purina Walk for Dog Guides, and Drop It and Drive! In addition, Vineland Quarries & Crushed Stone regularly conducts school outreach programs and involves the community by inviting them to open houses and reception events.



Walker Industries – Walker Aggregates Inc.

Walker Brothers Quarries

Niagara Falls

Walker Brothers Quarries has adopted a number of processes and introduced equipment to improve its relationship with neighbours. These include using an articulating stacker, water truck and stainless steel enclosure over the primary plant's main conveyor to reduce dust, as well as using polyurethane wear liners on crusher chutes to reduce noise. The company has also hired traffic enforcement officers to enhance traffic safety and employs effective blast monitoring and scheduling. Its community initiatives include raising funds for events like The Big Move cancer ride and picking up a hammer for Habitat for Humanity builds. It also hosts numerous receptions, training days and educational programs.

PROGRESSIVE REHABILITATION AWARD

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**Walker
Aggregates Inc.**

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



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

*Ayr Pit
Ayr*

Completed in July 2013, CBM's rehabilitation of its Ayr Pit entrance began with the goal of naturalizing the 2.08-hectare section of the 92.1-hectare pit. On-site stockpiles provided approximately 1,700 tonnes of overburden for the project, and this was followed by a layering of 2,600 tonnes of topsoil to a depth of 500 mm. The project saw the creation of a gradual 10:1 slope, after which a grass/legume seed mix comprised of clover and alfalfa was seeded at a rate of 125 kg/ha. Equipment used for the Ayr Pit entrance rehabilitation included a D8 Dozer and 330 Excavator.



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

*David Pit
Township of North Dumfries*

Rehabilitation work for this project was focused on the southwest side slope and floor of the David Pit to prepare the 1.83-hectare segment of the land for future agricultural use. Between September 2012 and October 2012, the project saw the side slope graded to 3:1 and covered with approximately 5,200 tonnes of overburden and 4,700 tonnes of topsoil – the latter spread to a thickness of 600 mm. Both soil and overburden were retrieved from on-site stockpiles, after which 230 kg of a grass/legume seed mix was applied.



PROGRESSIVE REHABILITATION AWARD

Sponsored by



**Walker
Aggregates Inc.**



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

*Lakefield Pit
County of Peterborough*

The central pit floor of CBM Aggregate's Lakefield Pit was the focus of this project, which was designed to naturalize the land for agricultural use. Two rock trucks, a 330 John Deere Excavator and a D3 Caterpillar dozer were used for the job, with the excavator and rock trucks used to transport approximately 9,000 tonnes of overburden from nearby berms to the project area. A nearby berm also supplied approximately 6,500 tonnes of topsoil, which was spread to a thickness of 300 mm. Following this, CBM crews applied 975 kilograms of seed mix comprised of a mixture of timothy, rye grass and sweet clover.



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

*Lakefield Pit – West Floor
County of Peterborough*

The objective of rehabilitation on the west floor of Lakefield Pit was to create agricultural land, with the help of local farmer Mel Thomas who was recruited to work on the eight-hectare portion. The team formulated an action plan that started with an analysis of the soil, followed by the placement of topsoil from a nearby berm in multiple low spots, measuring from 150 to 200 mm in depth across the site. Following a soil analysis, 100 tonnes of horse manure was applied to reduce pH levels and enhance the soil's organic composition, and then the site was seeded at a rate of 160kg/ha. One month later, an additional soil sample was taken and 500 more tonnes of manure were applied. The field was then plowed and planted with winter wheat.



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

*McDonnell Pit
Brighton, ON*

The goal of this rehabilitation project was to create a naturalized 2:1 slope on the east side slope of the McDonnell Pit. The project consisted of applying approximately 6,000 tonnes of overburden to the 1.5-hectare area, followed by 4,000 tonnes of topsoil at a thickness of approximately 150 mm. Both the overburden and topsoil were taken from on-site stockpiles. Once the slope was achieved, crews applied a seed mix at a rate of 125 kg/ha using a hand held spreader. The seed mix consisted of annual ryegrass, creeping red fescue, tall fescue, alsike clover, white clover and birdsfoot trefoil.

PROGRESSIVE REHABILITATION AWARD

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**Walker
Aggregates Inc.**



Dufferin Aggregates – A division of Holcim (Canada) Inc.

*Brown Pit
Township of North Dumfries*

Rehabilitation efforts in 2013 took place in the south section of the pit, where 10,000 cubic metres of overburden and topsoil were used from local berms. The site was also leveled into a flat field and used to create a pond dugout for local animals, while a small section was stripped to allow for ongoing extraction. While seeding was planned as part of the rehabilitation, summer conditions and pollinating vegetation allowed the field to green by itself within days. To date, 12.5 hectares of the Brown Pit have been progressively rehabilitated, with three hectares completed in 2013.



Dufferin Aggregates – A division of Holcim (Canada) Inc.

*Mosport Pit
Town of Orono*

Rehabilitation work at the Mosport Pit stretches back to the 1990s. Currently, 20 per cent of the main pit has been rehabilitated. In 2009, to extend the western wall of the northwest rehab, fine, silty sand was moved from the Western Pit to the Main Pit, covered with topsoil and seeded with a blend of creeping red fescue, brome grass, annual rye and legumes, and the flat bench was treed. In 2011, a retention pond was dug to solve erosion issues and provide a water source for wildlife. In 2012, rehab in the Western Pit saw 545,000 m³ of fine material used to slope the northeast side of Phase 1 at 3:1. Topsoil was laid and seeded with annual rye, buckwheat, alfalfa, crown vetch, white clover, perennial rye and tall fescue. In 2013, the west wall in the northwest corner of the Main Pit was sloped at 3:1, and the slope was incorporated and transitioned into the slopes and benches from the north wall.



Harold Sutherland Construction Ltd.

*Spears Pit
Township of Georgian Bluffs*

Eight hectares of the Spears Pit were rehabilitated with the goal of returning the site to its use as an agricultural pasture. Work consisted of sloping and grading the pit faces to 3:1 along the south boundary bordering the Township road, and 5:1 at the west and north faces. At one stage, progress was hindered by the discovery of bank swallows nesting on the remaining face of the centre pit. Crews successfully staked off the banks and worked around them until the swallows left. Approximately 18,500 tonnes of topsoil was moved from nearby berms and applied at a depth of 150mm on all slopes and the pit floor, after which seeding was applied.

PROGRESSIVE REHABILITATION AWARD

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**Walker
Aggregates Inc.**



Lafarge Canada Inc.

Brown Lund Pit

Township of Middlesex Centre

The objective of the Brown Lund Pit's final rehabilitation was to restore the 72.6 hectares of licensed area. The project began on the Lund portion and moved to the Brown portion, using approximately 150,000 cubic metres of overburden culled from perimeter berms and stockpiles. Sloped areas were graded to a finished slope of 3:1 and the silt pond area was graded and contoured. A 250 to 300 mm layer of topsoil was then applied over the rehabilitated area. In spring 2013, the site was seeded with a wheat crop at a rate of 150 kg/ha. Upon completion of the rehabilitation, the lands were returned to agricultural production.



Lafarge Canada Inc.

Dodds Pit

Town of Caledon

The goal of this two-year initiative was to slope and prepare a 2.1-hectare stretch of land at Dodds Pitt for the construction of a future pond. A total of 82,500 cubic metres of clean, inert topsoil was imported from the north side of Dougall Avenue, South Fields Phase 3 Development for Monarch Corporations. In-situ sampling and testing was conducted on all imported material, as well as random on-site samples that had entered the area. Contoured slopes on the rehabilitation site varied from 3:1 to gentler slopes surrounding the future shoreline of the planned on-site pond. Following this, the naturalization of the slopes fell to on-site operations, as the site plan did not state any details on seed mix.



Lafarge Canada Inc.

Giordano Pit

Township of Uxbridge

This project was conducted over a two-hectare section of the Giordano Pit and completed in conjunction with the neighbouring Hockley pit. The goal was to mine both sides of the property line, as both pits were required to complete the earthworks and re-establishment of the property. Sloping required the movement of 13,000 cubic metres of material, including overburden which was applied at a thickness of 400 mm to achieve a final slope of 3:1 before rough grading, and topsoil from an on-site pile that was placed at a thickness of 250 mm. Hydroseeding took place over two days at an application rate of 125 kg/ha. The seed mix consisted of perennial rye, alfalfa, buckwheat, tall fescue and white clover.

PROGRESSIVE REHABILITATION AWARD

Sponsored by



**Walker
Aggregates Inc.**



Lafarge Canada Inc.

Orillia Pit

Township of Oro-Medonte

Areas in the northwest and southwest portions totalling 1.2 hectares of the Orillia Pit were the target for this rehabilitation project. Grading was completed on the former using 3,500 cubic metres of nearby overburden applied at a 300 mm thickness, while nearby stockpiles were also used to achieve a 3:1 slope on the latter. Then, 900 cubic metres of topsoil from a 2013 stripping campaign was applied at a thickness of 75 mm to both zones before final seeding, which consisted of four 50-kg bags of grass/clover seed mix. Both areas were completed over a two-week stretch. The overall rehabilitation goal for the Orillia Pit is to restore the site to agricultural use and reforest around select perimeter side slopes.



Lafarge Canada Inc.

Talbot Pit

Township of Middlesex Centre

The intent of this successful 2013 rehabilitation project was to complete final rehabilitation along a 0.5-hectare area located along the north face of the Talbot pit. The face was sloped to 3:1 and covered with approximately 21,000 cubic metres of overburden and fill material, applied to a thickness of 300 mm. A total of 200 mm of topsoil was then applied, followed by a seed mixture designed to facilitate quick growth and protect against erosion. The mix was applied at a rate of 125 kg/ha and contained perennial rye, alfalfa, crown vetch, white clover, buckwheat and tall fescue.



Lafarge Canada Inc.

Uxbridge Regan Pit

Township of Uxbridge

A 5.5-hectare area of the Uxbridge Regan Pit was the focus of this project, completed over three weeks. It included the movement of over 35,750 cubic metres of material to create a gradual slope of 3:1 with an overburden thickness of 400 mm and a topsoil thickness of 250 mm. Hydroseeding was conducted over a four-day period, distributing a seed mix of crown vetch, alfalfa, white clover, perennial rye, tall fescue and annual ryegrass at a 125 kg/ha rate. Overall rehabilitation plans for the pit call for the creation of a wildlife corridor stretching between the northern and southern forested areas around the site.

PROGRESSIVE REHABILITATION AWARD

Sponsored by



**Walker
Aggregates Inc.**



Lafarge Canada Inc.

*West Paris Pit
Paris*

Rehabilitation at Lafarge Canada's West Paris Pit encompassed approximately one hectare along two of the site's final extraction faces. The project saw the site's slope areas graded to 3:1 and contoured. In total, 15,000 cubic metres of overburden material was applied, and then topsoil was layered onto the finished slope at thicknesses averaging 250 to 300 mm. In the final phases, the exposed areas were seeded with a wheat crop applied at a rate of 150 kg/ha and containing a seed mix of perennial rye, oats, and grass/legume mix selected to reduce erosion and stabilize the slope with vegetation.



Walker Industries – Walker Aggregates Inc.

*Anten Mills Pit
Minesing*

The objective of this ongoing rehabilitation project is to return the Anten Mills Pit to a natural state with 3:1 sloping and native seed planting, and prepare the area to support numerous animal habitats. Work involved transporting sand fines and overburden material to the rehabilitation area. Topsoil was also utilized over the overburden to encourage seed growth. Rehabilitation efforts are still in their early stages at this 60-hectare location, and Walker Industries will be publishing results on an annual basis.



Walker Industries – Walker Aggregates Inc.

*Edgar Pit
Township of Oro-Medonte*

The objective of this ongoing project is to return the 52 hectares of licensed area at Edgar Pit to its natural state, with 3:1 sloping and native seed planting. The final rehabilitation will see the pit site host a central pond surrounded by wetland vegetation. To date, over 20 per cent of the site's final rehabilitation has been completed, with over 94,000 cubic metres of pond fines moved to the area in 2013. Plans include the application of an 80 per cent MTO mix comprised of creeping red fescue, Kentucky blue and perennial rye, as well as certified winter wheat and wild flower.

PROPERTY ENHANCEMENT AWARD

Sponsored by



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
- Communicative signage

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



Nelson Aggregates Co.

*Lincoln Quarry
Town of Lincoln*

Two “Gold” Bars

Office & Scale House Areas

Communicative Signage



Nelson Aggregate Co.

*Uhthoff Quarry
Orillia, ON*

Two “Gold” Bars

Employee Areas

Communicative Signage



Waynco Ltd.

*Waynco Pit
Township of North Dumfries*

Two “Gold” Bars

Employee Areas

Communicative Signage

STUDENT DESIGN COMPETITION

Sponsored by



The Student Design Competition recognizes the most innovative designs for the ecological revitalization of a former pit. This year, students were challenged to create plans for Lafarge Canada's Stead-Day Pit in the City of London, County of Middlesex.



Generous funding for the Student Design Competition was provided by The Ontario Aggregates Resources Corporation (TOARC), and it was sponsored this year by Lafarge Canada Inc. and administered by OSSGA.



1ST PLACE (\$3,000)

PollinateAIR

Nicole Abernethy, Emilio Martinez Lara, Jenna Matthews
University of Guelph

The goal of this submission is to develop Canada's first native pollinator research and tracking facility. Designed as a "pollinator airport," the site will achieve three objectives: re-instate and preserve native pollinators in South Ontario, i.e., birds, bees, butterflies, etc.; bring national and global interest to the rehabilitated site; and improve the London community's social and cultural realms.

Central to the plan is a LEED-certified pollinateAIR terminal, which will serve as the hub for the site, house community and research spaces, and feature an interactive control tower where visitors can get a unique view of the site and its inhabitants. Surrounding highlights include a forest walk, wetland boardwalks and a research park for biologists, entomologists, environmentalists and students. PollinateAIR's submission also includes a detailed funding and grading plan that outlines in full how pollinateAIR will encourage a transformation "from flight to flight."

2ND PLACE (\$2,000)

The Forest Legacy

Jonathan Behnke, Lisa Van Huyse, Zoe Wimmer
University of Guelph

This submission foresees a return to London's "Forest City" status by turning Lafarge's site into a diverse and ecologically valuable landscape that serves both as an educational and cultural hub, and a nursery for locally grown native trees.

Underscored by its mission to "Grow Trees. Grow Minds. Grow London," the rehabilitation plan calls for a partnership with local schools and community organizations to conduct tree planting and field trips. Green features include a pollinator meadow, ecological corridor and shelterbelt, microclimate reflecting pond, and a wind channel for urban conditioning. Guests will have access to a community centre, plaza and pond, and there will be additional interactive highlights.



STUDENT DESIGN COMPETITION

Sponsored by



**Dufferin
Aggregates**

A division of Heclim (Canada) Inc.



3RD PLACE (\$1,000) Forest City Pit Works

*James McMillan, Andreas DiMattia
Fanshawe College*

The Forest City Pit Works concept draws its inspiration from the Evergreen Brick Works facility and nature park located in Toronto's Don Valley area. It envisions a final rehabilitation that will rejuvenate London's "Forest City" status by developing a site that meets LEED Platinum status and features a number of green, public characteristics.

Among the design's highlights are the development of a naturalized storm water management pond, a permanent trees farm to encourage future reforestation, a cistern water collection system and the installation of solar panels atop the newly renovated facility. The plans also make room for a raised boardwalk path for visitors, as well as a public pavilion – both of which will encourage tourism to the newly revitalized area.



HONOURABLE MENTION (\$600) Our Hole Story

*Sandra Congdon, Fernando Marin, Fernando Cirino
Fanshawe College*

Our Hole Story tells a tale of a site repurposed to house an active, engaged and green-minded community. Projected to attract a population of 3,170, the plan envisions the development of condominiums along Sunningdale Road. These condominium dwellings will appeal to active-minded residents thanks to their proximity to outdoor activities, an 18-hole golf course, pedestrian pathways and various water activities.

Another highlight is the inclusion of the David Suzuki Academy, a three-story facility built on existing slopes to accommodate the development of terraced green roofs. The building will include a multi-sport facility, trails and naturalized landscaping – all designed to provide students with unparalleled views and opportunities to enjoy the rehabilitated space.



HONOURABLE MENTION (\$600) Greenwood Productive Village

*Sandra Viviana Murillo Morales, Cailey Bradshaw
Fanshawe College*

Plans for the Greenwood Productive Village envision a semi-rural community where nature and low-impact residential development exist in harmony. Designed to promote sustainable wood technology developments and new development outside urban growth areas, the pilot project sees the site transformed to include a blend of living spaces and restored nature spaces.

Residents of Greenwood Productive Village will be located in detached, terraced housing and townhouses surrounded by pedestrian walkways. They will be in close proximity to walking trails, an Urban Forestry Educational & Productive Centre, a community centre and a community plaza. The site will be connected by a series of trails and pedestrian walkways, while forested and green areas will be used to restore the site and support its ecology.