

Low Impact Development (LID) on Multi-Residential Properties

By: Credit Valley Conservation (CVC)



Presentation Outline

- What is Low Impact Development (LID)?
- Grey to Green Guide 8 Step Process
- Case Studies
- Greening Corporate Grounds



LID

low impact development is a green infrastructure approach to stormwater management that uses simple cost-effective landscaped features and other techniques to filter, store, infiltrate and use rainfall where it falls.



















Pollution Prevention



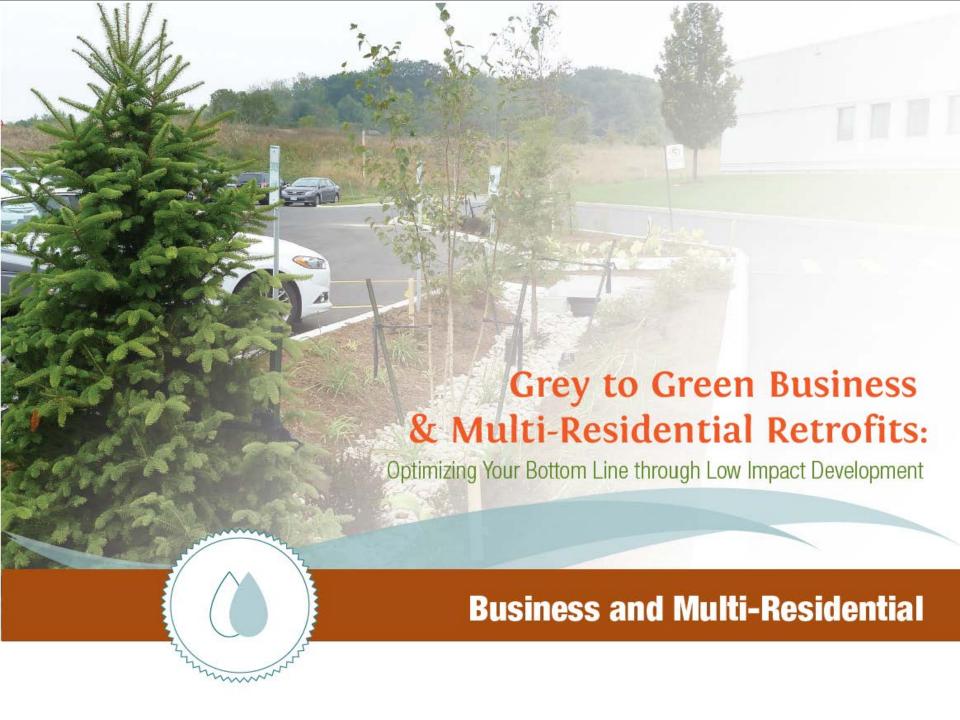






Pollution Prevention – Waste Management

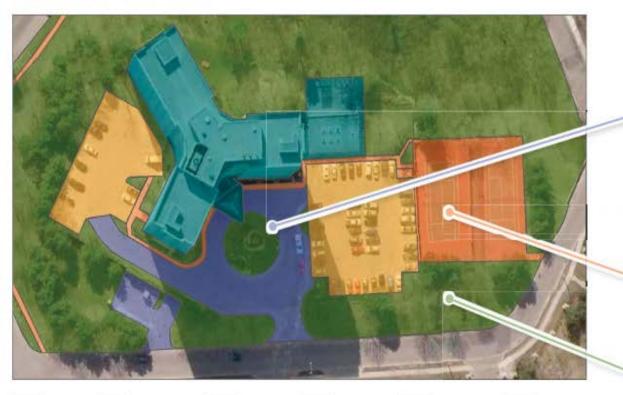




LID options for high-rise and mid-rise sites

Source area	Permeable pavement	Bioretention	Bioswales	Soakaways	Perforated pipe systems	Rainwater harvesting	Landscape alternatives	Prefabricated modules	Green roofs	Pollution prevention
Roof area	0	0	0	0	0	•	0	0	•	0
Pedestrian / landscaped / common areas	•		0	0	0	0	•	0	0	0
Parking area		0	0	0	0	0	0		0	•

common option opossible option unlikely



This landscaped area is in a high-profile location that vistors and residents will pass on their way to the building. It is also adjacent to a well-traveled driveway that likely contributes significant pollutant loads to the site runoff. A bioretention practice in this location will enhance site aesthetics and provide water quality and water balance benefits. Also, these high value landscapes already receive frequent maintenance and converting them to bioretention would add few additional tasks.

This tennis court represents a significant impervious percentage on this site. A infiltration chamber located below would encourage groundwater recharge.

This unused green space is ideal for a bioretention or bioswale retrofit to provide stormwater management for parking lot runoff.

Parking area Landscaped area

Building

Pedestrian area Driveway area

Other

1.0 Upfront Requirements



2.0 Site Screening of LID Options



3.0 Pre-design



4.0 Detailed Design



5.0 Approvals



6.0 Tender and Contract Documents



7.0 Construction Supervision and Administration







Examples of Low Impact Development Sites













Pre-treatment - Jellyfish





Regent Park









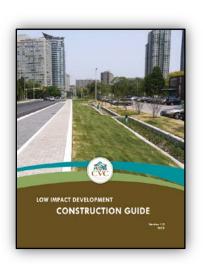
Rainwater Harvesting System





For more Information visit:

http://www.creditvalleyca.ca/low-impact-development/







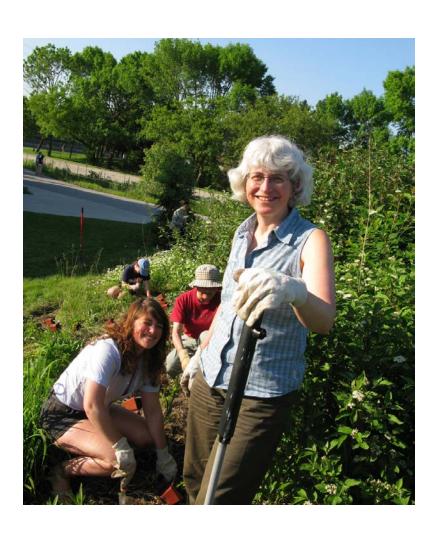


GREENING CORPORATE GROUNDS

Deborah Kenley, Program Coordinator

PROGRAM DESCRIPTION





Greening Corporate Grounds (GCG):

- Helps corporations, institutions and places of worship green their grounds
- Provides hands-on guidance and technical expertise throughout the life of projects
- A voluntary program structured to help participants achieve ecological goals on their property

PROGRAM SERVICES



GCG Provides:

- A custom "green" concept plan for participant sites
- Site assessment that includes plant and soil identification
- Educational resources, presentations and workshops for staff and volunteers
- Coordination of planting or other events for participants
- Estimates for plant materials and can phase projects to work with budgets and resources
- Fee-for-service maintenance through establishment phase (1-3yrs)





CONCEPT PLAN: IMAX CORPORATION



SUPPORT SERVICES



Additional Support Includes:

- Technical advice to landscape consultants or in-house personnel
- Long-term maintenance plan for your site
- Sourcing native plants and materials
- Coordination with other program providers such as Partners in Project Green





Mary Kay Cosmetics: Parking Lot Planting

Residential Project: Pollinator Garden

HOW TO PARTICIPATE



Minimum Requirements:

- Demonstrate a commitment to improving the environment on your grounds over time
- Complete one Land or Water project such as:
 - Convert a portion of existing lawn and/or hardscape feature to a native woodland, forest, meadow, prairie or bioretention etc...





UCM Land Project: Pollinator Garden

UCM Water Project: Bioretention Cell

PROGRAM STRUCTURE



Program Costs:

- There are no fees to participate in the program
- Participants cover all construction costs for projects such as:
 plants, mulch and materials
- We advise of funding opportunities that may be available through foundations and our partners like Partners in Project Green





We have a variety of resources on ecological landscaping and stormwater management available for you to take at the end of the presentation or visit:

www.creditvalleyca.ca/landscaping





Questions



Together, it's our nature to conserve and our future to shape.