



LID Monitoring Projects

Lakeview District Neighbourhood - Road Retrofit

Background

City of Mississauga and Credit Valley Conservation (CVC) have partnered to develop a “Green Street” pilot project for two streets in the Lakeview District Neighbourhood located in southwest Mississauga. This area of Mississauga is one of the few that still has swales for drainage as opposed to curb and gutter. Instead of following standard practice and converting the streets in the neighbourhood to curb and gutter, Mississauga has decided to construct enhanced roadside swales. The road redevelopment includes enhanced swales that will help reduce stormwater runoff and improve water quality discharging into stormsewers and eventually into Lake Ontario.

Location: 1st and 3rd Streets Lakeview District Neighbourhood, Mississauga

LID Practices Implemented

- **Permeable Paving Stone Driveways and Parking Lay-bys** increases stormwater infiltration by allowing water to soak into the joints between the paving stones and into the ground.
- **Enhanced Roadside Swales** are a stormwater management technique that uses the chemical, biological, and physical properties of plants and soils to treat stormwater runoff. They are designed to mimic natural conditions promoting infiltration, retention, and the slow release of stormwater runoff.





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Why are we Monitoring?

- We are evaluating the effectiveness of the enhance swales and permeable pavement at reducing the volume and improving the quality of stormwater runoff from the neighbourhood roads compared to roads with conventional curb and gutter design.



What are we Monitoring?

- We are measuring water flow using continuous level loggers and weirs.
- We are also taking flow weighted water samples during precipitation events.



When did monitoring begin?

- The collection of preconstruction background data started in July 2010

Who are the Partners?

- Credit Valley Conservation, The City of Mississauga, & The Ontario Ministry of the Environment.