

Watershed Restoration Services Projects Update

Board of Directors' Meeting

September 25, 2020

Christa Sharp

Manager, Watershed Restoration Services

Brook Piotrowski

Restoration Project Manager



Lake Simcoe Region
conservation authority



2020 Accomplishments



- 25 Completed Projects
 - 12 Agricultural Projects
 - 12 Natural Heritage Projects
 - 1 LID
 - Total Cost 1M
 - Restoration Assistance \$140k
 - Landowner \$375k
 - Other funders \$485K

- 80 In Progress Projects
 - 14 Agricultural Projects
 - 64 Natural Heritage Projects
 - 2 LID
 - Total Estimated Cost \$2.1M
 - Restoration Assistance \$122K
 - Landowner \$1.5M
 - Other funders \$478K

Goodyear Farm History

- Consulting firm was retained in September of 2018 to address agricultural surface run off
- Spring Best Management Practice plan was completed and implemented in spring of 2019



Goodyear Farm History

- Final design with drawing sets were completed in fall of 2019
- Construction started in November and is still on going



Goodyear Farm Accomplishments

- 70% of the farm was planted with cover crops
- 16 km of laneways were stabilized
- 1.4 km of new ditches
- 2 stormwater ponds
- 3 Wascob's
- Numerous culverts replaced
- Grassed waterways
- Buffer and wind break plantings



**Goodyear Farm
BMP Implementation Map**

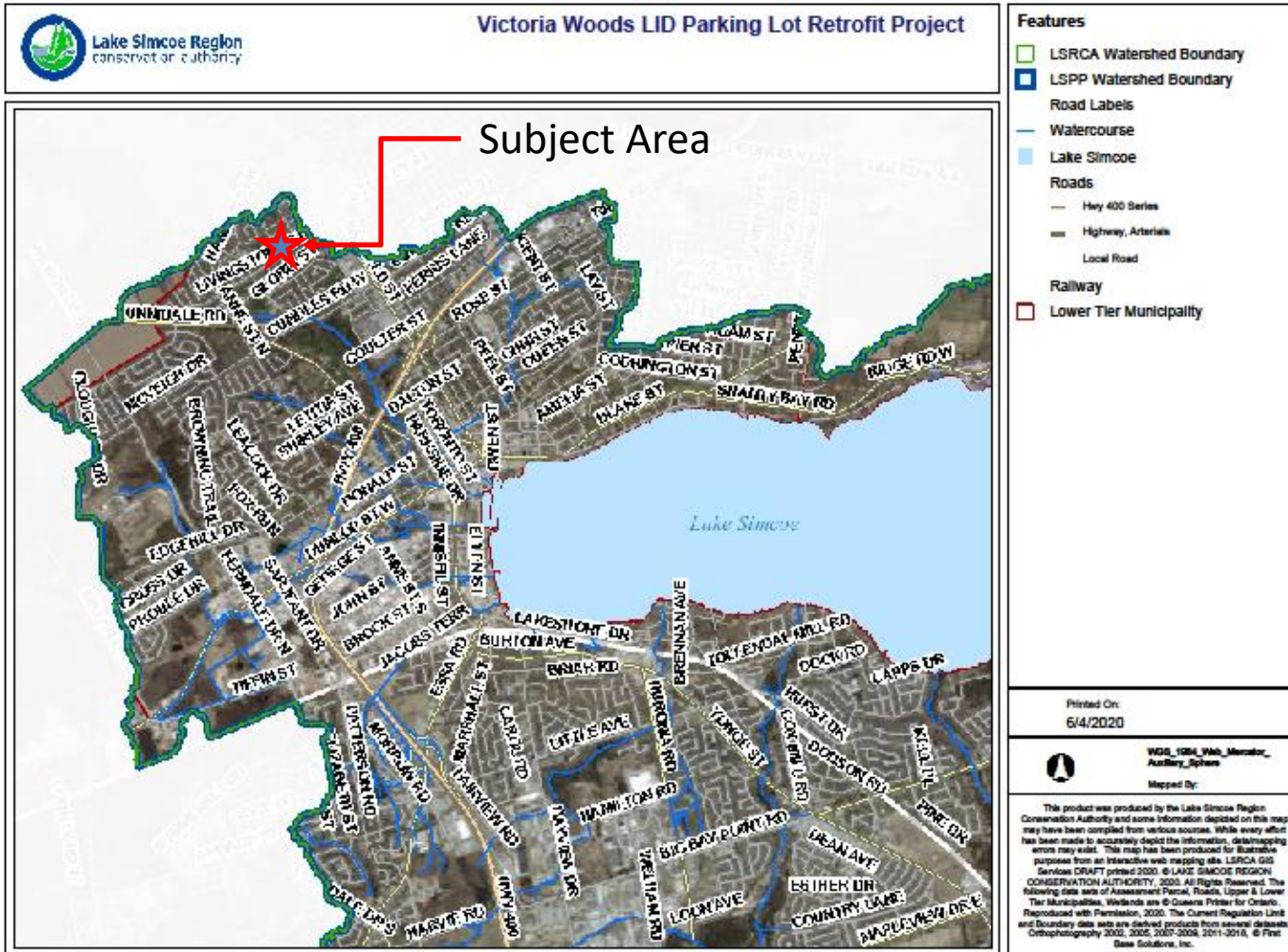


Next steps

- Total project cost \$1.4 M
 - Design – \$75K
 - Construction \$800K
 - Other – \$575K
- Restoration activities still to come
 - Additional Wascob's and grassed waterways
 - 2 pond expansions (increase capacity and irrigation efficiencies)
 - Additional linear ditches
 - Fall and spring tree plantings



Victoria Woods LID Parking Lot Retrofit Project

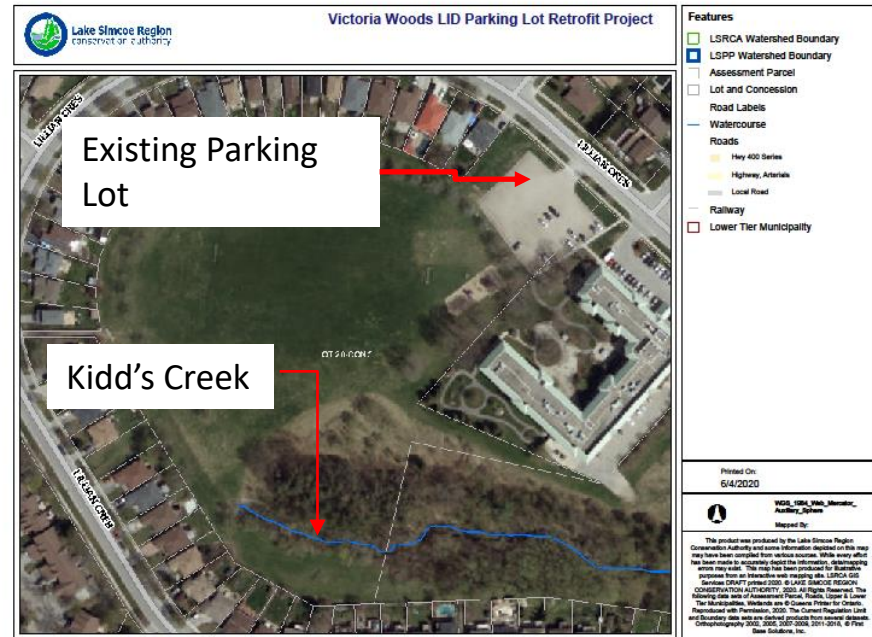


Scale 1: 51,929



Victoria Woods LID Parking Lot Retrofit Project

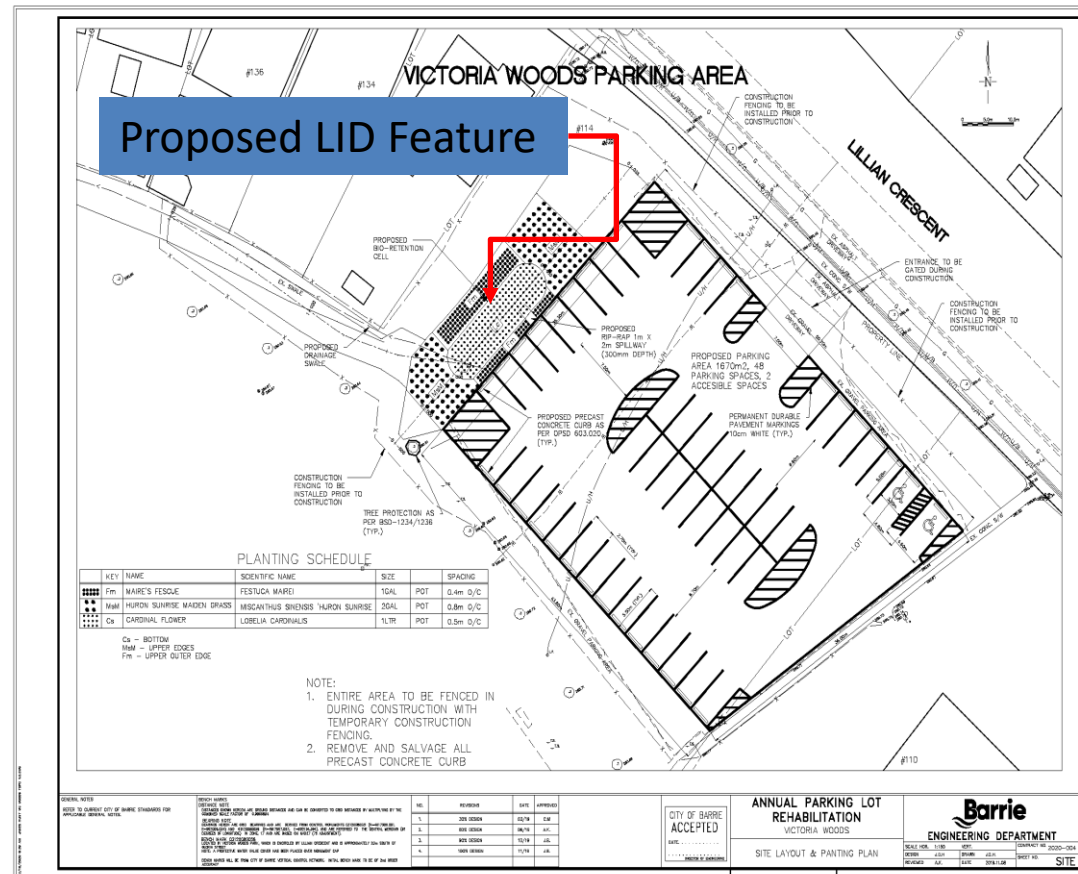
- The City of Barrie renovated one of their public parking lots this summer, located at Victoria Woods park.
- The former parking lot was comprised of a hard-packed gravel layer mixed with fines and is impervious.
- The City resurfaced it with asphalt and has re-directed runoff from the hard surface area into a bioretention swale.
- The native soil has an infiltration rate of 32mm/hr which is ideal for a LID project.



Victoria Woods LID Parking Lot Retrofit Project

Benefits:

- 42 cubic metres of storm water will be infiltrated from the 1,700 square metre parking lot, based on the 25mm rain event
- There is an estimated phosphorus reduction of 0.5 kg/year.
- This will result in an improvement to water quality and a reduction to peak flows.



Victoria Woods LID Parking Lot Retrofit Project

- The construction costs for the LID component was \$57,000 and we will be providing \$42,000 towards the project through our water balance offset funding



1. Initial Excavation of LID Feature



2. Installation of Geotextile and Gravel Reservoir Layer



3. Installation of pea gravel choking layer



4. Installation of Bio-media layer

Victoria Woods LID Parking Lot Retrofit Project

- The Bioretention swale was just recently fully landscaped and educational signage will be installed in the fall of 2020.



Questions?

