

The Scott Drain Integrating Natural Channel Design, Controlled Drainage and Agricultural Practices

Geoff King

Stewardship Services Coordinator

Maitland Valley Conservation Authority



Outline

- Watershed Challenges
- Rural Stormwater Management/System Approach
- Scott Municipal Drain Project
- Steenstra Municipal Drain Project



The Maitland Watershed Resiliency Challenge

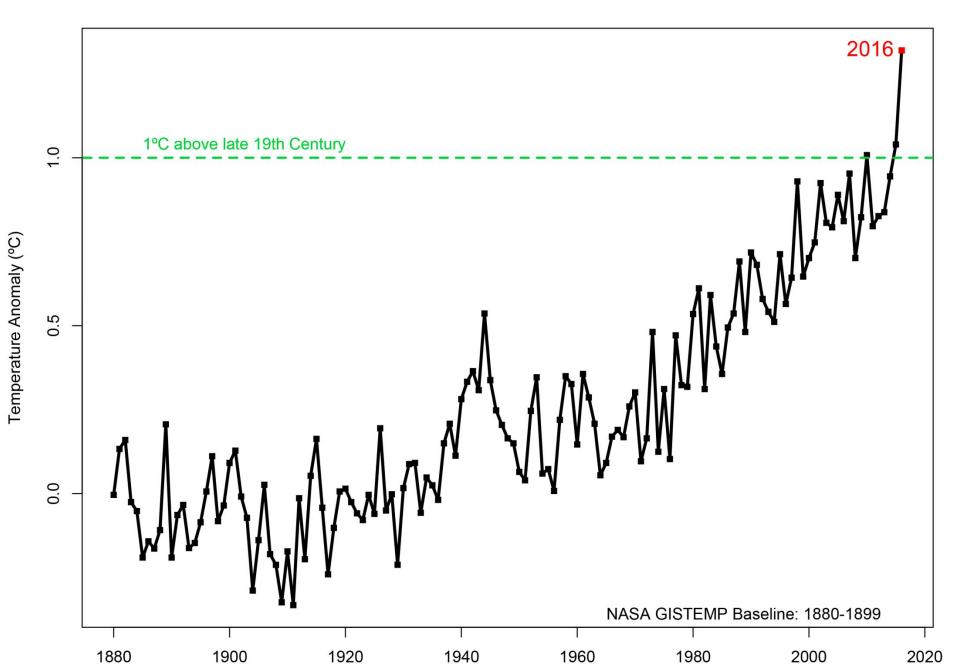








Global Mean Surface Temperature (January-June)







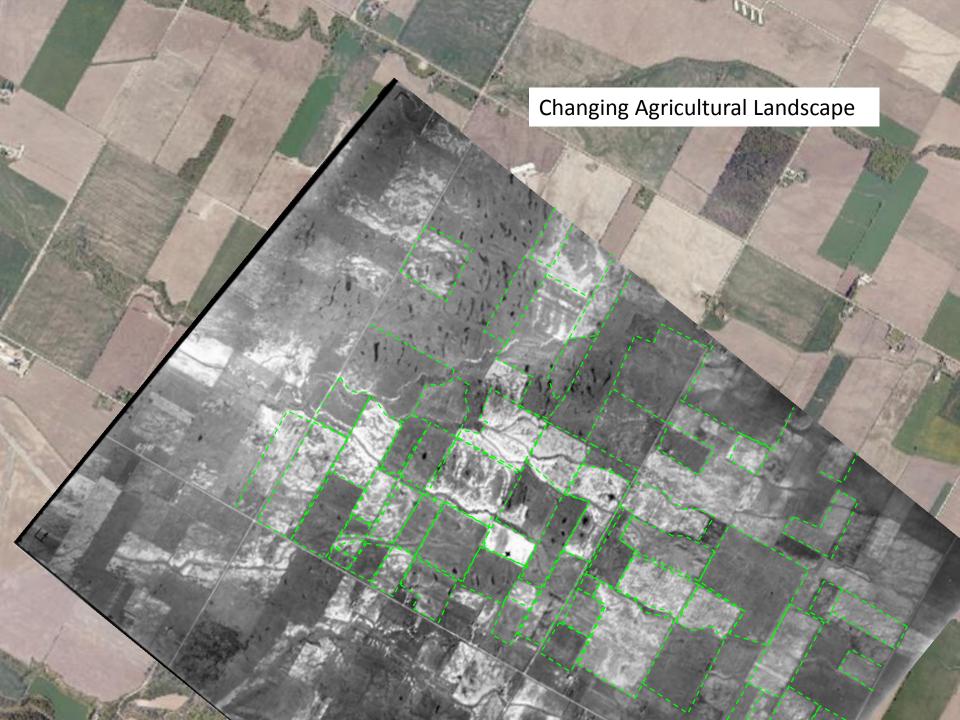












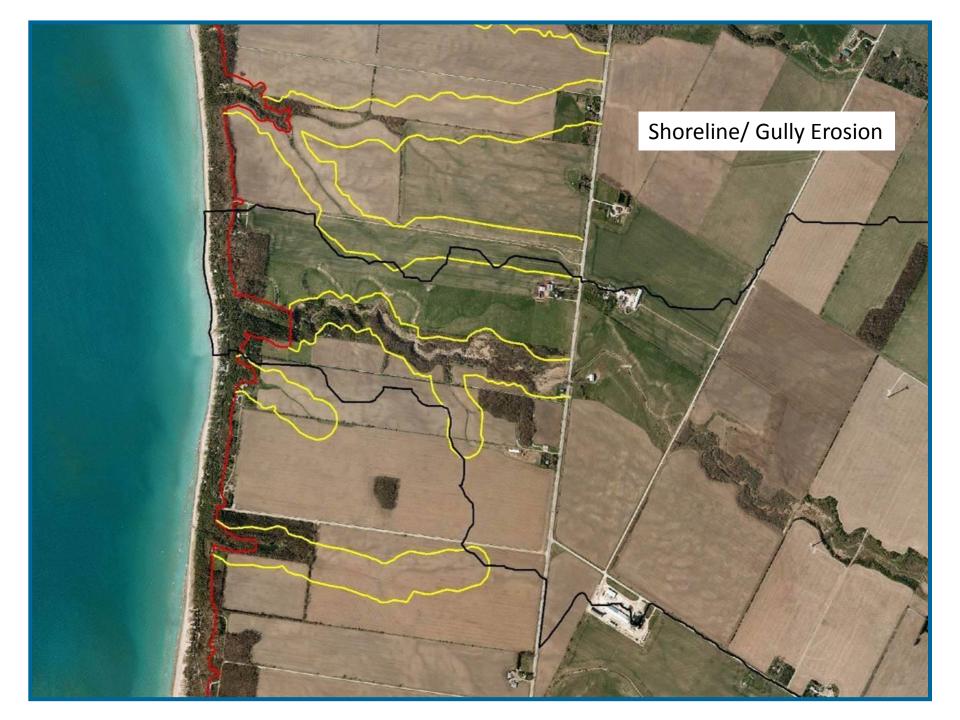






Watercourses Straightened







Inspiration for Resiliency







Key Messages Prevent/ Trap/ Treat





Prevent







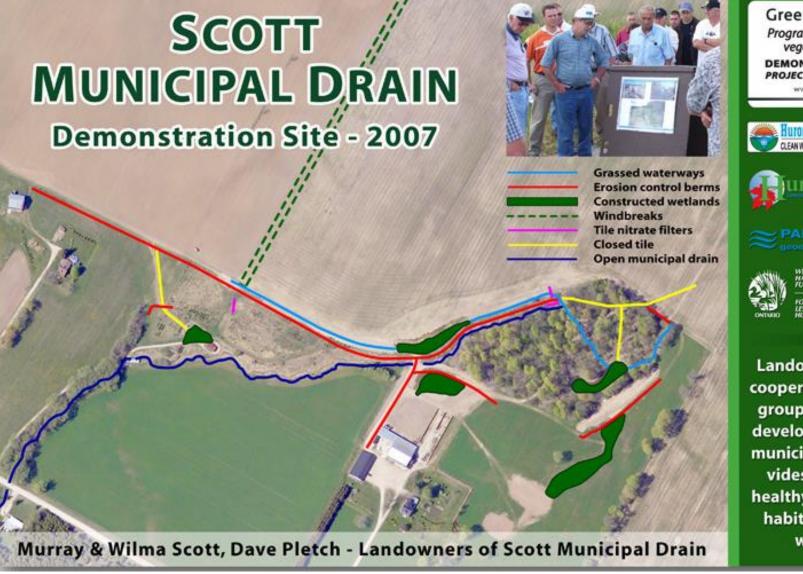






Treat





Greencover Canada

Programme de couverture vegetale du Canada

DEMONSTRATION PROJECT PROJECT DE DEMONSTRATION

www.ontariosoilcrop.org





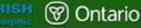






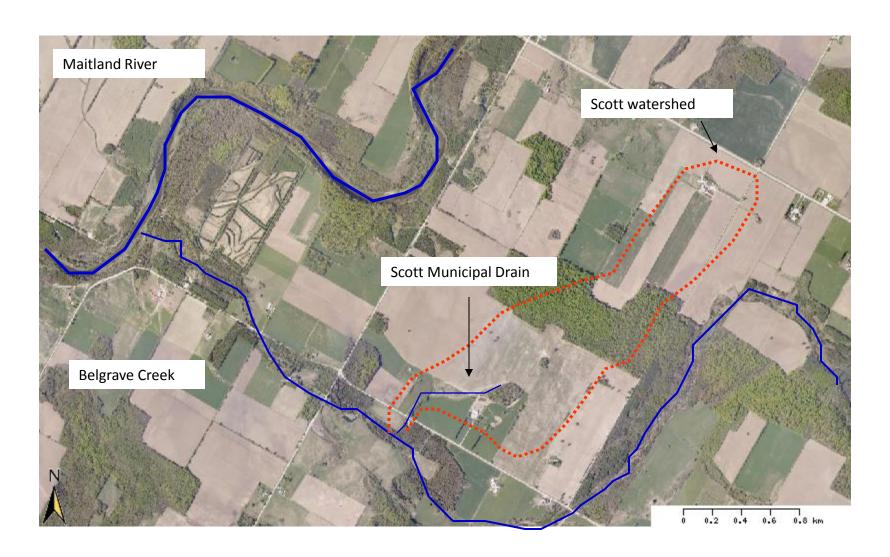








Landowners working in cooperation with interest groups and agencies to develop a self sustaining municipal drain that provides good drainage, healthy fisheries, wildlife habitat and improved water quality.



System Approach

Barn roof water was diverted into the storage area. Clean water diversion.





Agri Drain Control Box
Controls level in the ponding area.





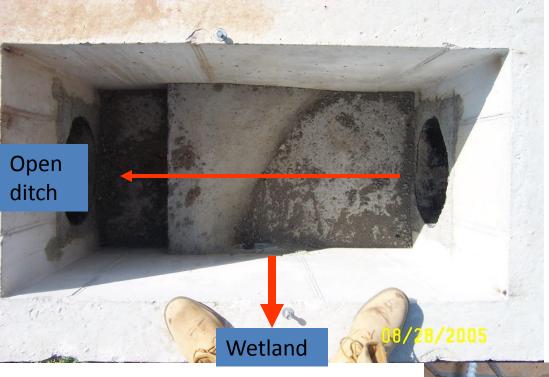




Municipal Drain Diversion Box

Diverts flows from 14 in. closed municipal drain into constructed wetland





High flow conditions











Wetland Storage – April flooding 2008

Modified Drain Cleanout





















Maitland Conservat







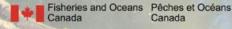
Steenstra Municipal Drain Demonstration Project





Steenstra Drain Watershed

Landowners of the



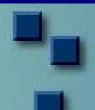




♥ Ontario

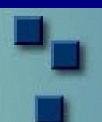


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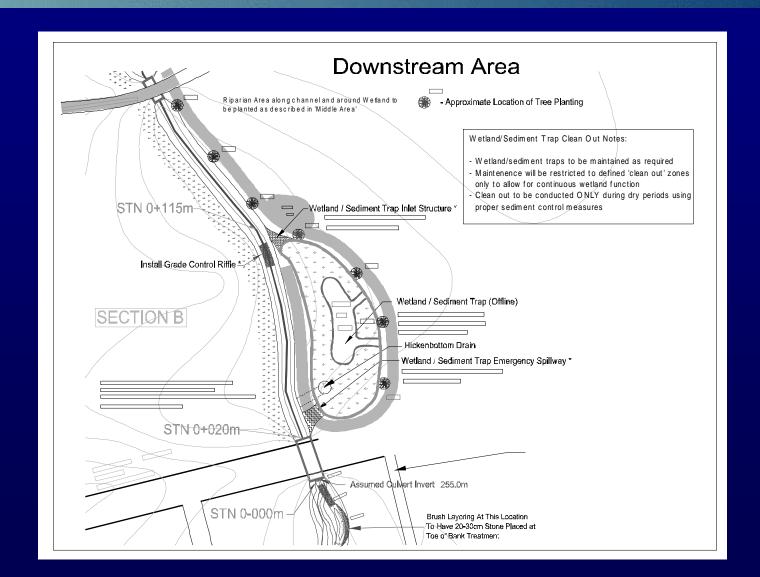


Steenstra Drain Sediment Issue





Steenstra Drain Downstream Wetland Sediment Trap

















Belgrave Creek Restoration Project

40 Years Later





