



Michigan's
Nonpoint Source
Program

Clean Michigan Initiative
Nonpoint Source Grant
2013-0008



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Church Street Parking Lot LID Rehabilitation

November 4, 2013 - December 31, 2014

The City of Adrian is dedicated to implementing sustainable design practices. The City received a grant to implement low impact design (LID) storm water projects on its 1.8-acre municipal parking lot. This portion of the City is served by combined sewers and it was known that 11 downspouts were connected to the combined sewer. LID practices removed parking lot drainage and downspout discharge from the combined sewer. Practices selected included vegetated swales and tree box filter systems to promote infiltration of the storm water.



Grant Amount: \$ 111,952
Match Funds: \$ 37,516

Total Amount: \$ 149,468



Best Management Practices:

- Vegetated swales
- Tree box filter system
- Downspout disconnection



Annual Load Reductions:

- 7.6x10⁶ cfu *E. coli*
- 7.2 tons sediment
- 7.2 pounds phosphorous
- 14.4 pounds nitrogen

Partners involved:

- Tetra Tech

River Raisin Watershed

River Raisin Watershed (zoomed)





Site Before: Parking Lot



Site After: Vegetated Swale in Finished Parking Lot



Site Before: Parking Lot



Site After: Vegetated Swale with Tree Box Filter in Finished Parking Lot