



Brown's Creek Restoration



Clean Water Funds: 2013

Clean Water Grant	\$72,500
Leveraged Funds*	\$45,485.57
Total Project Budget	\$117,985.57

* Leveraged Funds include

Targeted Water:

Brown's Creek - DNR designated trout stream

Project Sponsor:

Brown's Creek Watershed District



Project Partners: MN DNR Trails and Countryside Auto Repair

Grant Period:

January 2013—December 2015

Project Contact:

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CWF13-207 - Clean Water Assistance

Project Narrative

Brown's Creek Watershed District, the MN DNR Trails and Countryside Auto Repair partnered to achieve significant thermal and sediment reductions in the biologically impaired Brown's Creek by installing an underground HDPE Water Quality Unit with associated inlet and outlet pipes and manhole structures within the DNR Trails Right-of-Way for sediment capture off of parking and drive lanes. The entire project site is intensely utilized, previously drained untreated water to Brown's Creek, and is located on the Brown's Creek State Trail. This project was identified as a high priority in the Brown's Creek TMDL Implementation Plan.



Proposed Outcomes:

Reduce Phosphorus by 12 pounds/year, Sediment by 1 tons/year and runoff volume by 1 acre-feet/year.

Actual Outcomes:

Reduce Phosphorus by 2.5 pounds/year, Sediment by 1 tons/year

Although still a priority project, the actual outcomes were reduced from the proposed outcomes due to several factors:

- MN DNR leased a portion of the proposed project land to a private landowner, reducing project area.
- Reduced project area made above ground design steeper than ADA requirements for trail, requiring an underground treatment device.
- Presence of historical railroad contamination prohibited infiltration



Before



During Construction (Sept 2014)



Just after construction (Oct 2014)



September 2015 - Brown's Creek water quality improvement project: site of an underground HDPE Water Quality Unit with associated inlet and outlet pipes and manhole structures within the DNR Trails Right-of-Way for sediment capture off of parking and drive lanes from Countryside Auto before entering an impaired trout stream.