



WATER QUALITY IMPROVEMENT PROJECT



Pre-Existing Conditions:

- Vehicle storage area adjacent to railroad tracks
- Rainwater carries gravel and debris from parking area and storage yard
- Site drains directly to a ditch which discharges to Brown's Creek



before

After Condition:

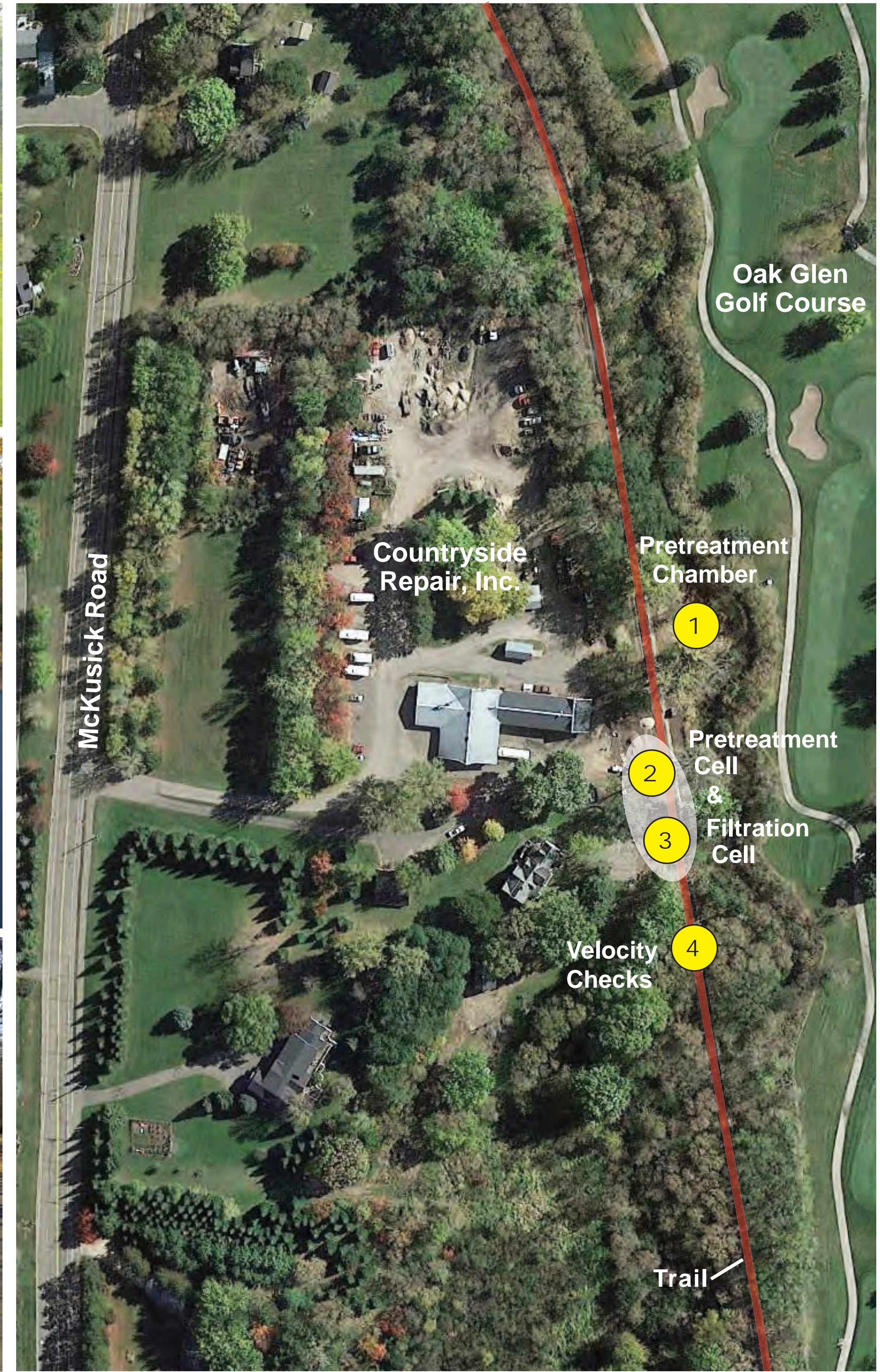
- Paved driveway with curb and gutter and catch basins directs site drainage into underground storage tank
- 5-foot diameter by 40-foot long underground storage tank captures & retains sediment and floatables (oil, leaves, trash, etc.)
- Higher flows are directed to the ditch through an underground culvert



during construction



after restoration



Project Summary:

Brown's Creek Watershed District and the Minnesota Department of Natural Resources (MN-DNR) have partnered to achieve sediment and phosphorous reductions in the biologically impaired Brown's Creek by installing an underground water quality chamber that will capture sediment from 4 acres of industrial parking & storage areas.

Project Benefits:

- 1,000 pounds per year of Total Suspended Solids (TSS) and over one (1) pound per year of Total Phosphorous (TP) will be captured and treated by the underground storage tank
- The rate of discharge of runoff entering Brown's Creek will be reduced by rock ditch checks



Project Participants:

Property Owner: MN-Dept. of Natural Resources
 Design: Emmons & Olivier Resources, Inc.
 Maintenance Access: Countryside Repair, Inc.
 Funding: MN Clean Water, Land, & Legacy

