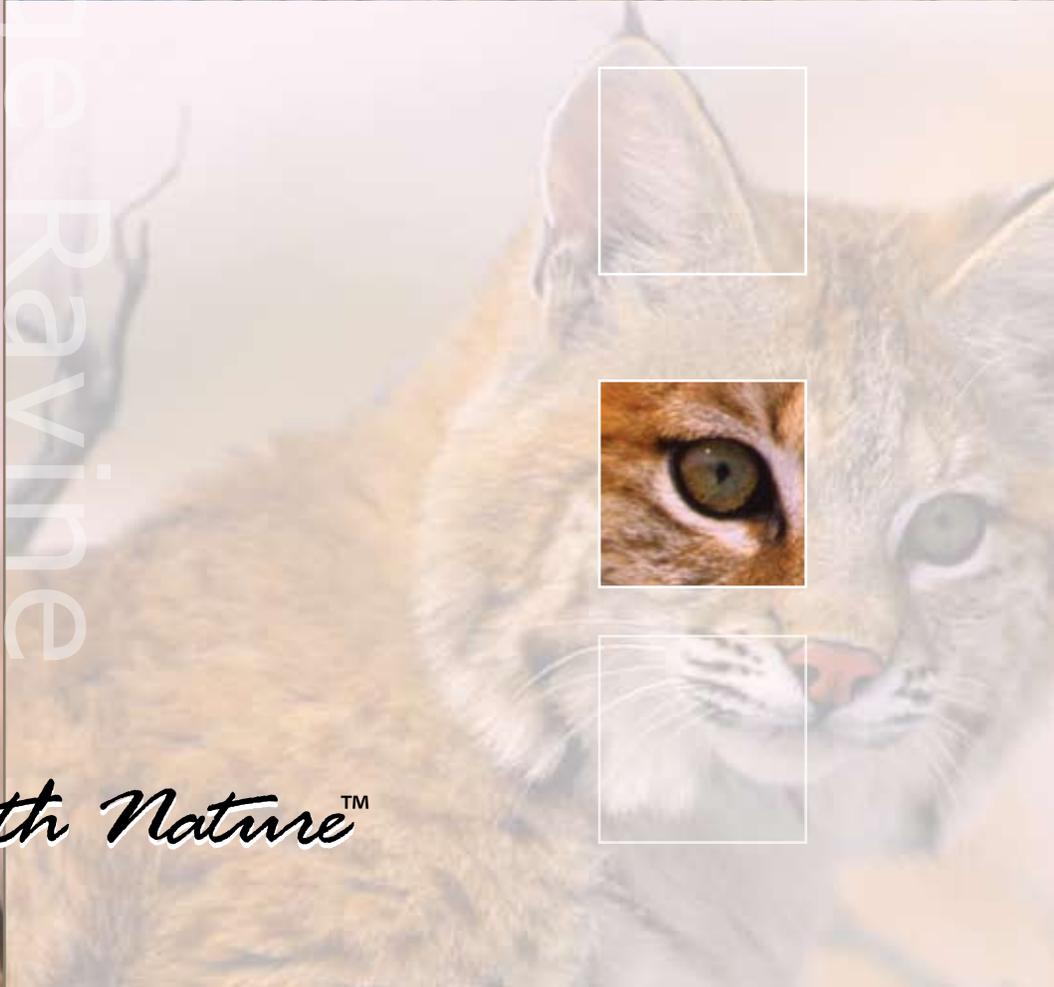




# Drainage Ravine

Miller Coulee Drain • Hixon Forest Nature Center  
La Crosse, Wisconsin

Drainage Ravine



*Synergy With Nature™*

# Drainage Ravine

**Application:** Protection for exposed natural gas line

**Owner:** Northern Natural Gas

**General Contractor:** Submar

**Location:** Hixon Forest Nature Center, La Crosse, Wisconsin

Submar completed its initial Hixon Forest Nature Center site survey for Northern Natural Gas in May of 2009. Substantial erosion from rainfall was causing exposure of a natural gas pipeline running through the forest. Repair and mitigation procedures would have been an every-day job if the location had not been a nature center.

Special care was taken not to damage sensitive vegetation nor disturb the native wildlife and an environmental inspector was on-site at all times checking all erosion control BMPs because of the rainy weather. Access was a major issue due to heavy use by joggers and walkers of trails in the Hixon Forest. These trails had to be kept in good condition while being used by the necessary heavy equipment needed to perform the job. After recoating and armoring the pipeline Submar completed the job using native seeds to restore the pipeline right-of-way with vegetation, solidified the trail and the ravine banks in the immediate area and completed the entire project within a week.



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