

CULVERT OUTLET



Vegetated Environmental Solutions

WHEATON SANITARY DISTRICT

WHEATON, ILLINOIS

THE PROBLEM

A contractor went beyond the allowed limits of construction permitted by regulatory agencies, and excavated a stream bank. The restoration project beginning in October 2011 was related to the construction of a new large diameter sanitary sewer for the Wheaton Sanitary District.

The sewer is located adjacent to a creek which is deemed to be part of the waterways of the U.S., therefore was to remain untouched as no permits were obtained to modify the creek, nor was there desire to do so.

Local residents alerted the DuPage County Department of Environmental Concerns about the streambank. The DuPage County DEC then contacted the US Army Corps of Engineers, who cited a violation notice and required it to be restored promptly and properly.



ENVIROLOK ADVANTAGE

The Envirolok system was recommended by the Dupage County DEC as an appropriate repair to the streambank.

When attempts to stabilize eroded or mismanaged streambanks fail, they often result in adverse effects on adjacent property. By reintroducing native trees, shrubs, wildflowers and grasses, a living ecosystem is created. Envirolok provides a stable, non-erodible platform for plant growth as well as stabilizes the soils below.

In cases of severe streambank failure, bioengineering may be necessary. Combining engineering practice and biological expertise, Envirolok satisfies permitting agencies, Professional Engineers, and Environmental Professionals with one solution. All while preserving natural waterways and without increasing water flow velocity or eliminating important habitat.



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ENVIROLOK RESULTS

Streambanks stabilized with Envirolok are able to withstand heavy spring floods and other severe conditions.

Fast-rooting native plantings, whose natural habitat is at the water's edge, are built into the structure. As they grow, their roots bind and reinforce the structure beyond its specified strength. Envirolok protects both the natural beauty of the stream and the valuable assets beside it.

The reaction to Envirolok was positive as it remedied the violation without the need to obtain any further permits. WSD sees other uses for the product in future restoration or stabilization projects.

The results were approved by the DuPage County DEC, the USACE, as well as neighboring residents.

"The product restored the pre-existing grades of the stream bank, as well as enhancing the structural stability and providing beneficial aesthetics."

*– Matt, Project Engineer
Wheaton Sanitary District*



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