Delta Landfill Flood Channelization

Delta, Wisconsin



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TYPE OF PROJECT	YEAR OF CONSTRUCTION	CLIENT	CONTRACTOR	DESIGNER
Reinforced Soil Walls And Slope Reinforcement	**2022**	**Bayfield County**	**Lakey Inc**	**Maccaferri**

PROD. RELATED

TerraMesh (345), Reno Mattress Plus (104)

Challenge

A major storm in northern Wisconsin eroded topsoil from a dormant landfill in the township of Delta, exposing the potential for contaminants to leach into the watershed and nearby recreational areas.

With no erosion protection in place, future flood events could create new flow paths, accelerate erosion, and increase environmental risk. The county needed a durable, permanent solution capable of withstanding future flooding while adapting to the site's challenging terrain.



Before: Original Landfill with no Erosion Control



During: Installation of TerraMesh

Solution

Maccaferri designed a hard-armored flood channel using a combination of our **Terramesh®, Green Terramesh®**, and **Reno Mattress®** solutions. Together, this system provides continuous erosion protection across the channel while addressing the different slopes and hydraulic conditions of the site.

The **Reno Mattress®** units armor the channel bed, while **Terramesh®** stabilizes the channel walls. **Green Terramesh®** protects the upper sloped area while allowing vegetation to reestablish along the channel's edge.

The resulting system provides long-term flood resilience and permanent erosion protection while integrating with the surrounding landscape. Its adaptable design offers a durable alternative to more rigid channel treatments, helping protect the landfill from future erosion and reducing the risk of contaminant migration.



After: Flood Channeling with Hydro Seeding

OPEN GOOGLE MAPS

OPEN GOOGLE EARTH

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