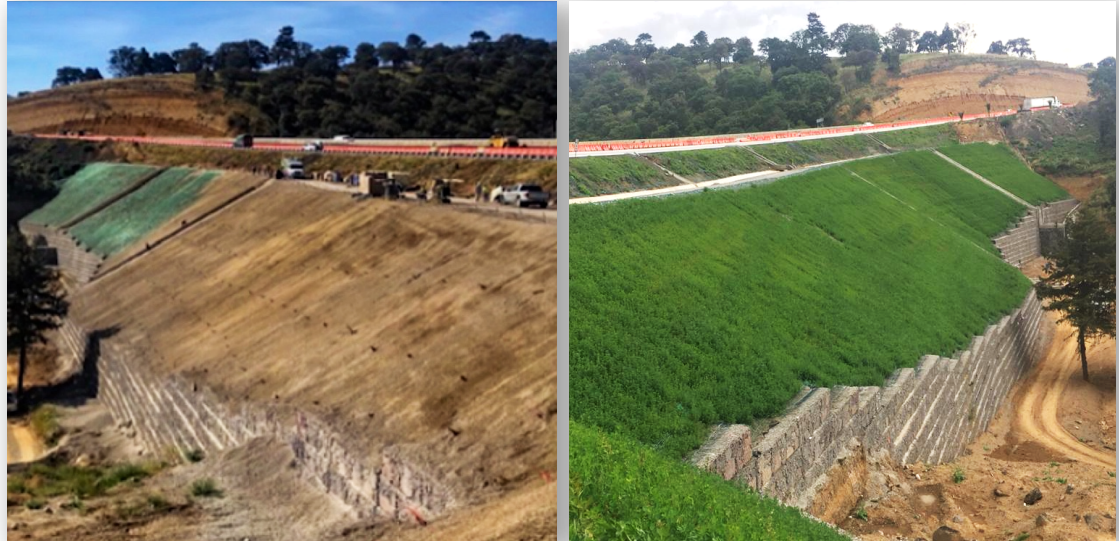


## Case Study

# Mexico City – Puebla Highway Puebla, Mexico

## Issues

- Steep embankment
- Sandy and gravelly soil
- Extremely low organic matter
- Vegetative and environmentally friendly solution required



*Steep embankment vegetated in 3 and a half months. January – April, 2019.*

## Problem

Successful vegetation was crucial to stabilize an 8,000 square meters steep embankment on the Mexico – Puebla Highway.

Revegetating the embankment was challenging though, because it was built using materials from nearby quarries, and its soil was sandy, gravelly and low in organic matter.



*Embankment to revegetate. January, 2019.*



## Case Study

# Mexico City - Puebla Highway Puebla, Mexico

## Solution



Verdyol Biotic Earth™, used in conjunction with hydromulch and 100% biodegradable coconut erosion control blankets, was chosen as the best option to improve initial vegetation success, grow healthy long-term vegetation, and to control erosion in an environmentally friendly manner.

**Vegetation established 20 days after installation. February, 2019.**

In January 2019, Verdyol Biotic Earth™, fertilizer, and local seeds were hydraulically applied to the embankment. Hydromulch was then applied to provide initial erosion control to the site. Coconut erosion control blankets and high resistance metal meshes were later installed over the entire embankment to provide additional erosion protection, as well as to help conserve moisture at the seedbed. Supplemental watering was applied to the embankment for the first 60 days after installation.

## Results

Vegetation started to establish quickly and had significantly expressed on the site after 20 days.

In April of 2019 (three and a half months after the start of the project), the embankment showed a 90% vegetation increase. The vegetation density achieved in conjunction with the coconut blankets and metal mesh now protect the steep slope from erosion and provide stability and support to the highway.



**Strong root system achieved in 3 and a half months. April, 2019.**

This project illustrates that Verdyol Biotic Earth™ is able to achieve significant vegetation success under extreme soil and slope conditions when used in conjunction with erosion control products.



**BIOTICEARTH.COM • PHONE: (866) 280-7327 • FAX: (866) 757-7327**