

02 BIOCEANIC HIGHWAY — SECTION 1

SLOPE PROTECTION WITH HYDRAULIC MULCHES — PARAGUAYAN CHACO

CASE STUDY · PARAGUAY



Hydraulic mulch applied over the slope — kilometres of continuous protection

+1,000,000

M² PROTECTED AGAINST EROSION

11 of 21

SECTIONS PROTECTED BY ECE

3

ECOSYSTEMS CROSSED

The challenge: the road linking Carmelo Peralta with Loma Plata crosses three Chaco ecosystems with **highly saline soils**, rainfall concentrated in sharply defined periods and a **wind erosion** constant. Establishing vegetation there is one of the hardest challenges in the region.

The solution: slope protection by means of **hydraulic mulches** applied by Ece, with the formulation tuned to each soil. Over **one million square metres** carried out on 11 of the 21 sections of the works — the largest hydroseeded area applied in Paraguay.

Why it works: the mulch pins the seed and the moisture down against the Chaco wind and sun, and protects the soil from day one, without waiting for the vegetation to come up.



The starting point: cracked saline Chaco soil



Vegetated slope beside the carriageway — the result

PROJECT FILE

Project	Bioceanic Highway, Section 1
Location	Carmelo Peralta – Loma Plata, Chaco
System	Profile hydraulic mulches
Area	Over 1,000,000 m ² (11 of 21 sections)