



# CASE STUDY

## DOWNER

### OVERVIEW

Infrapipe supplied multiple **DN3200 SN8 HDPE spiral wound pipes** for a major culvert replacement project in Hawke's Bay. The project involved replacing an existing culvert located deep within a natural sandstone crevice, requiring a lightweight and durable solution capable of overcoming difficult site access and installation conditions.

As the only manufacturer in New Zealand producing PE DN3200 pipes using advanced **Krah technology**, Infrapipe delivered a high-performance solution engineered specifically for large-diameter infrastructure applications. The lightweight nature of HDPE pipe simplified handling and installation on site while providing long-term durability, structural performance, and hydraulic efficiency.

### KEY FACTS

- **Pipe Medium:** Culvert
- **Pipe Size and SN Rating:** 32m SN8 DN3200
- **Product Type:** Spiral Wound Pipe
- **Material Used:** HDPE
- **Geographic Location:** Hawke's Bay

### SOLUTIONS

- The previous culvert was deep in a natural sandstone crevice 10 meters from the road level. As a solution, INFRAPIPE<sup>™</sup> provided the necessary lightweight PE product.
- INFRAPIPE<sup>™</sup> carried out static calculations to determine the required SN rating as well as supplied installation drawing.



LIGHTWEIGHT  
PE PRODUCT



STATIC  
CALCULATIONS









