

Case Study: Klipspruit Mine Extension - Pollution Control Infrastructure

Works Package 16: Pollution Control Dams & Stormwater Sumps

Client: South 32 SA Coal Holdings (Pty) Ltd

Location: Ogies, Mpumalanga

Project Duration: April 2018 - February 2021

Sector: Mining Infrastructure - Environmental Management

Project Overview

Axsys Projects, in joint venture with Stefanutti Stocks Construction and Mining through the Voluntary Rebuild Programme (VRP), delivered critical environmental infrastructure for South 32's Klipspruit Colliery life of mine extension project.

This R4.3 billion life of mine extension will extend operations to 2037, with the environmental infrastructure forming a crucial component of sustainable mining operations.

Key Deliverables

- Four pollution control dams for environmental compliance
- Two stormwater sumps for water management
- Associated earthworks and civil infrastructure
- Environmental management systems integration
- Long-term operational sustainability measures

Strategic Importance

The project forms part of South Africa Energy Coal's broader investment in:

- Extending mine life to 2037
- Enhanced environmental management capabilities
- Sustainable mining practices
- Regional economic development and employment

Joint Venture Benefits

The Stefanutti Stocks and Axsys Projects partnership delivered:

- Combined technical expertise and resources
- Skills transfer and local development through VRP
- Enhanced project delivery capabilities

- Risk sharing and management optimisation

Environmental Impact

- Significant improvement in mining environmental management
- Enhanced water quality protection measures
- Compliance with stringent environmental regulations
- Long-term sustainability of mining operations

Technical Excellence

The project required:

- Precision engineering for large-scale water management
- Integration with existing mine infrastructure
- Environmental compliance throughout construction
- Long-term performance and durability considerations

Project Classification: Environmental Infrastructure

Contract Type: Joint Venture - Design and Build

Programme: Voluntary Rebuild Programme (VRP)