

## WEST ANGELAS BOREFIELD FIBRE OPTICS

### Project Name

West Angelas Borefield  
Fibre Optics

### End User

Pilbara Iron  
(Rio Tinto Iron Ore)

### Project Location

West Angelas, Pilbara, WA

### Services Provided

Civil Construction  
Cable Ploughing  
Fibre Optic Backbone  
Installation  
Fibre Termination and  
Testing  
Subcontractor Management

### Key Technology

Technical Services – Fibre  
Optic  
Zero Tension Fibre  
Installation

### Project Value

\$850k

### Completed

May 2009

*Applicon was contracted by Pilbara Iron to install 13km of fibre optic cable through harsh Pilbara terrain to replace a slowly failing, yet critical, production link from the mine site to the remote Bore Field Pump and Tank control system.*

### PROJECT SUMMARY

Supply and install 13km of direct buried single mode fibre optic cable. This included route planning, mobilisation of heavy machinery, site works and cable ploughing with a zero fibre tension winch. Following installation, fibre terminations and testing were carried out to company specifications and the system was recommissioned.

### SCOPE OF WORK

Supply and install 13km of direct buried single mode fibre optic cable. This included route planning, mobilisation of heavy machinery, site works and cable ploughing with a zero fibre tension winch. Following installation, fibre terminations and testing were carried out to company specifications and the system was recommissioned.

### BUSINESS IMPROVEMENTS

Applicon was diligent in its appraisal of an initial fault repair and instigated the process for replacing the link. Continuing failures were inevitable and may have resulted in significant and costly loss of production. The newly installed link and associated civil construction was done to the client's specifications and industry best practices ensuring the mine water supply is constant and monitored 24x7x365. Applicon applied its quality procedures to ensure that the subcontractor on site performed its duties safely and professionally delivering the project on budget and on time.

### TECHNOLOGIES

- Fibre Cable Ploughing
- Zero Fibre Tension Winching
- Dark Fibre Commissioning
- Single Mode Backbone Network



Quality  
ISO 9001

SAI GLOBAL

AMD1008 REV02 22JUN09