

CASE STUDY



BHP BILLITON

RPG5 PORT HEDLAND TO NEWMAN RAIL DUPLICATION

Improving performance and efficiency

As part of the McMahon Leighton Joint Venture, Leighton Contractors was awarded a contract to develop BHP Billiton Iron Ore's Rapid Growth Project 5 rail project (RGP5) in the Pilbara region of Western Australia.

Visionstream installed 400km of dual 60 cores SMOF underground optic fibre cables from Port Hedland to Shaw Siding Newman under 2 portions of contract. The Duplication Heavy Haul railway was constructed along the existing Newman / Yandi Line.

Highlights

- Installed 400km of dual 60 cores SMOF underground optic fibre cables
- Preferred fibre businesses BHPBIO's mission critical infrastructure
- Installation and commissioning of over 145 signalling locations

Customer Profile BHP Billiton

Time Scale

36 months

Location(s)

Pilbara WA

Industry

Resources Rail & Mining

Solution

Communications Backbone & Connectivity

Approximate Value

Undisclosed



Visionstream's expert knowledge and flexibility in the resourcing sector ensures we are a trusted partner across all of BHPBIO's operations.

Innovative solutions for complex environments

The build utilised multiple construction methodologies such as:

- Ripping/ploughing (single and dual plough), Trenching, Rock Sawing (standard and diamond tipped dual saw), Horizontal Directional Drilling (utilising standard and pneumatic heads) & Installation and commissioning of over 145 signalling locations (FOBOTS) to Signalling Equipment Rooms and locations along the route.
- The directional drilling was undertaken in some of the hardest rock found within WA in excess of 200mpa and required specialised pneumatic drill heads which had to be sourced from outside of Australia.

Expertise where it's needed

Where horizontal drilling was not mandatory due to issues peculiar to the location (eg. heritage, environment, water crossings) and hard rock was encountered, a specialised dual diamond tipped saw was utilised to allow the rock to be broken/trenched for installation of the fibre optic cable.

Visionstream's expert knowledge and flexibility in the resourcing sector ensures we are a trusted partner across all of BHPBIO's operations. Visionstream currently have a 5 year framework agreement with BHPB Pilbara operations.



Visionstream delivers large scale telecommunications and ICT solutions across Australia and New Zealand.

- *We develop smart, tailored solutions that enhance the quality of critical telecommunications assets.*
- *We partner with our customers along the value chain, from network planning through to customer connections and maintenance.*
- *13,000+ personnel across our Australian Communications, nbn and New Zealand businesses.*

Contact us

For more information on how Visionstream can partner with you to improve the efficiency and effectiveness of your network, please visit www.visionstream.com.au