



## Brockman 4 Pioneering Earthworks

Client: Rio Tinto

Practical Completion: June 2010

Location: Brockman Mine Site, WA

Contract Value: \$23M

- New construction of mine site sealed roads built to main roads standards.
- Construction clear strip of 5.75ha of borrow pit push up and blend 26,200m<sup>3</sup> of grade B suitable road base materials.
- Clear 3.6km new road reserve and alignments prepare sub-grades and condition and test.
- Cut, win, load & haul from cuttings 16100m<sup>3</sup> place, condition and compact sub grade materials to formation road areas.
- Install new culverts, 2 x 8 barrel x 1800mm x 24mts. 1 x 7 barrel x 1800mm x 16.8lmts. 3 x 3 barrel x 1800mm x 16.8lmts.
- In-situ concrete aprons and head walls 360m<sup>3</sup>.
- Select rock, break, load, haul and place 1210m<sup>3</sup> rip rap rocks spoil for armour protection of batters and drains
- Cement stabilisation of culverts 1200m<sup>3</sup>.
- Installation of 2 new bores and turkey nests including lining pump and gen set equipment.
- Load -haul place and compact 25,600m<sup>3</sup> sub-base and road base materials to final levels and grades.
- Supply and install 360mtrs of guard rail.
- Supply and install road signs and markings.
- Supply and install heritage fencing and stock fencing 4.78km.

### **Brockman 2 Road**

- Reconstruction 8.8km of existing all weather road as to main roads standards.
- Win, load and haul place and compact 21,200m<sup>3</sup> of sub-base material.
- Load and haul place and compact base course material 5,780m<sup>3</sup>.
- Installation of culverts 5 x 3 barrel x 300mm x 10lmts 3 x 6 barrel x 1200mm x 10.8lmts. 1 x 8 barrel x 1800mm x 10.8lmts.
- Select rock, break, load, haul and place rip rap to culverts and drains.
- Re-habilitate borrow pits and access roads.
- Remove turkey nests and equipment re-hab areas.
- Install road signs and guide posts. Rural Fence 12.5km.

**Form of contract:** AS4000  
**Start date:** 02/08/2009  
**Date of Practical Completion:** 10/06/2010

**Type of contract:** Schedule of Rates / Dayworks  
**Date for Practical Completion:** 14/05/2010  
**Actual contract period (weeks):** 40 weeks

