Attachment 5 to Statement 131

Change to Proposal

Proposal: Brockman 2 Detrital Iron Ore Mine (North-west of Tom Price, Shire of Ashburton)

Proponent: Hamersley Iron Pty. Limited

Change: Phase IIa Development – to further develop parts of existing Pit 4, Pit 4 Extension, Valley Pit and Pit 6 to a depth of not more than relative level 580 metres and increasing the dewatering rate from approximately 700 megalitres per year to not more than 950 megalitres per year to maintain the current groundwater level at depth not greater than relative level 570 metres.

Key Characteristics Table:

Element	Description of approved proposal	Description of current changes to proposal (bolded)
Mine design	▪ Development of 1 1500 metre x 500 metre open pit ▪ Development of 3 500 metre x 200 metre open pits ▪ Development of Pit 4 Extension to a depth of relative level 620 metres ▪ Development of Pit 5 to a depth of relative level 590 metres ▪ Development of Pit 6 to a depth of relative level 620 metres ▪ Development of Pit 7 to a depth of relative level 690 metres ▪ Development of Valley pit to a depth of relative level 620 metres ▪ Development of Lower Pit 4 (Stage 1) to a depth of relative level 580 metres; life of Stage 1 approximately 3 years ▪ Pit 4 to Pit 1 ramp ▪ Pit 4 backfill tip-head ▪ Landbridge between Pit 4 Extension and Pit 6 ▪ Landbridge between Pit 4 Extension and Pit 7 ▪ Landbridges 1-4 ▪ Additional haul roads	▪ Development of 1 1500 metre x 500 metre open pit ▪ Development of 2 500 metre x 200 metre open pits ▪ Development of Pit 5 to a depth of relative level 590 metres ▪ Development of Pit 7 to a depth of relative level 690 metres ▪ Development of Lower Pit 4 (Stage 1) to a depth of relative level 580 metres; life of Stage 1 approximately 3 years ▪ Pit 4 to Pit 1 ramp ▪ Pit 4 backfill tip-head ▪ Landbridge between Pit 4 Extension and Pit 6 ▪ Landbridge between Pit 4 Extension and Pit 7 ▪ Landbridges 1-4 ▪ Additional haul roads ▪ **Further develop parts of Pit 4, Pit 4 Extension, Valley Pit and Pit 6 to a depth of not more than relative level 580 metres**
Mining rate	▪ Rate of mining and processing of 10 million tonnes per annum.	▪ Rate of mining and processing of 10 million tonnes per annum.
Dewatering	▪ Dewatering of approximately 700 megalitres prior to further developing Lower Pit 4	▪ **Dewatering of Pit 4-6 orebody aquifer of not more than 950 megalitres per year to maintain groundwater level at a depth not greater than relative level 570 metres**

Element	Description of approved proposal	Description of current changes to proposal (bolded)
Excess water management	▪ Discharge of excess dewatering water to Pit 5 for passive recharge into the regional aquifer	▪ Discharge of excess dewatering water to Pit 5 for passive recharge into the regional aquifer
Low grade fines	▪ Four low grade stockpiles (size not specified) ▪ One low grade stockpile west of Pit 4, 6.8 million tonne capacity and cover 18.6 hectares ▪ One low grade stockpile adjacent to Pit 5, 17 million tonne capacity and cover 29.2 hectares	▪ Four low grade stockpiles (size not specified) ▪ One low grade stockpile west of Pit 4, 6.8 million tonne capacity and cover 18.6 hectares ▪ One low grade stockpile adjacent to Pit 5, 17 million tonne capacity and cover 29.2 hectares
Mineral waste	▪ Waste material to be placed directly into the mined out section. Though minimum of 2 years of surface dumping will be required prior to the commencement of backfilling of the mined out area ▪ Additional out of pit waste dump between Pit 4 Extension and Pit 7 resulting in an increase of 7.1 million tonnes of pit waste	▪ Waste material to be placed directly into the mined out section. Though minimum of 2 years of surface dumping will be required prior to the commencement of backfilling of the mined out area ▪ Additional out of pit waste dump between Pit 4 Extension and Pit 7 resulting in an increase of 7.1 million tonnes of pit waste
Ore transport	▪ Construction and operation of 45 kilometre rail squr to Rosella Siding on the Tom Price-Dampier railway ▪ Construction and operation of a rail siding located between 273 kilometres and 280 kilometres with an average width of 100 metres requiring the temporary clearing of approximately 179 hectares and 30 hectares of permanent clearing	▪ Construction and operation of 45 kilometre rail squr to Rosella Siding on the Tom Price-Dampier railway ▪ Construction and operation of a rail siding located between 273 kilometres and 280 kilometres with an average width of 100 metres requiring the temporary clearing of approximately 179 hectares and 30 hectares of permanent clearing
Water supply	▪ Borefields for production and potable water supply (5 megalitres per day) ▪ Proportion of dewatering water from Pit 4-6 orebody aquifer used for mineral processing and dust suppression	▪ Borefields for production and potable water supply (5 megalitres per day) ▪ Proportion of dewatering water from Pit 4-6 orebody aquifer used for mineral processing and dust suppression
Power supply	▪ On-site diesel generators	▪ On-site diesel generators
Other infrastructure	▪ Upgrade of tracks to camp and through Hamersley Station ▪ Upgrade of airstrip ▪ Fuel storage facility ▪ Construction and operation of accommodation camp ▪ Construction and operation of landfill ▪ Construction and operation of sewage treatment facilities ▪ Construction and operation of offices, workshops and laboratory ▪ Golf course near Nammuldi (Brockman) camp (not built) ▪ Extension of existing carpark at Nammuldi Camp (2.2 hectares)	▪ Upgrade of tracks to camp and through Hamersley Station ▪ Upgrade of airstrip ▪ Fuel storage facility ▪ Construction and operation of accommodation camp ▪ Construction and operation of landfill ▪ Construction and operation of sewage treatment facilities ▪ Construction and operation of offices, workshops and laboratory ▪ Golf course near Nammuldi (Brockman) camp (not built) ▪ Extension of existing carpark at Nammuldi Camp (2.2 hectares)

Element	Description of approved proposal	Description of current changes to proposal (bolded)
	▪ Re-alignment of the existing access road around Nammuldi Camp (0.9ha) ▪ Installation of perimeter fence around Brockman airstrip (12.3 hectares) ▪ Installation of a fibre optic cable and spur between Rosella Siding and loop at Brockman 2 mine site approximately 40 kilometres in length, footprint not specified ▪ Construction and operation of a heavy vehicle access road from Brockman to Nammuldi operations, measuring approximately 2.4 kilometres in length and a maximum width of 30 metres requiring approximately 10 hectares of permanent clearing	▪ Re-alignment of the existing access road around Nammuldi Camp (0.9ha) ▪ Installation of perimeter fence around Brockman airstrip (12.3 hectares) ▪ Installation of a fibre optic cable and spur between Rosella Siding and loop at Brockman 2 mine site approximately 40 kilometres in length, footprint not specified ▪ Construction and operation of a heavy vehicle access road from Brockman to Nammuldi operations, measuring approximately 2.4 kilometres in length and a maximum width of 30 metres requiring approximately 10 hectares of permanent clearing
Closure	▪ Partial backfill of mine voids (Pits 1, 4, 4 Extension, 5, and 6) ▪ Establish protective bunds around mine voids ▪ Remove infrastructure not required for future use ▪ Rip, spread topsoil and if necessary seed waste dumps, hardstand and road areas	▪ Partial backfill of mine voids (Pits 1, 4, 4 Extension, 5, and 6) ▪ Establish protective bunds around mine voids ▪ Remove infrastructure not required for future use ▪ Rip, spread topsoil and if necessary seed waste dumps, hardstand and road areas

List of Figures:

Figure 3: Phase IIa Development: Indicative cross-section of approved mine design looking east.

Figure 4: Phase IIa Development: Indicative cross-section of approved mine design looking north.

Dr Paul Vogel
CHAIRMAN
Environmental Protection Authority
under delegated authority

Approval date: 25.8.09

BROCKMAN 2 MINE
FIGURE 4: PHASE IIa DEVELOPMENT: INDICATIVE CROSS-SECTION OF APPROVED MINE DESIGN - looking north

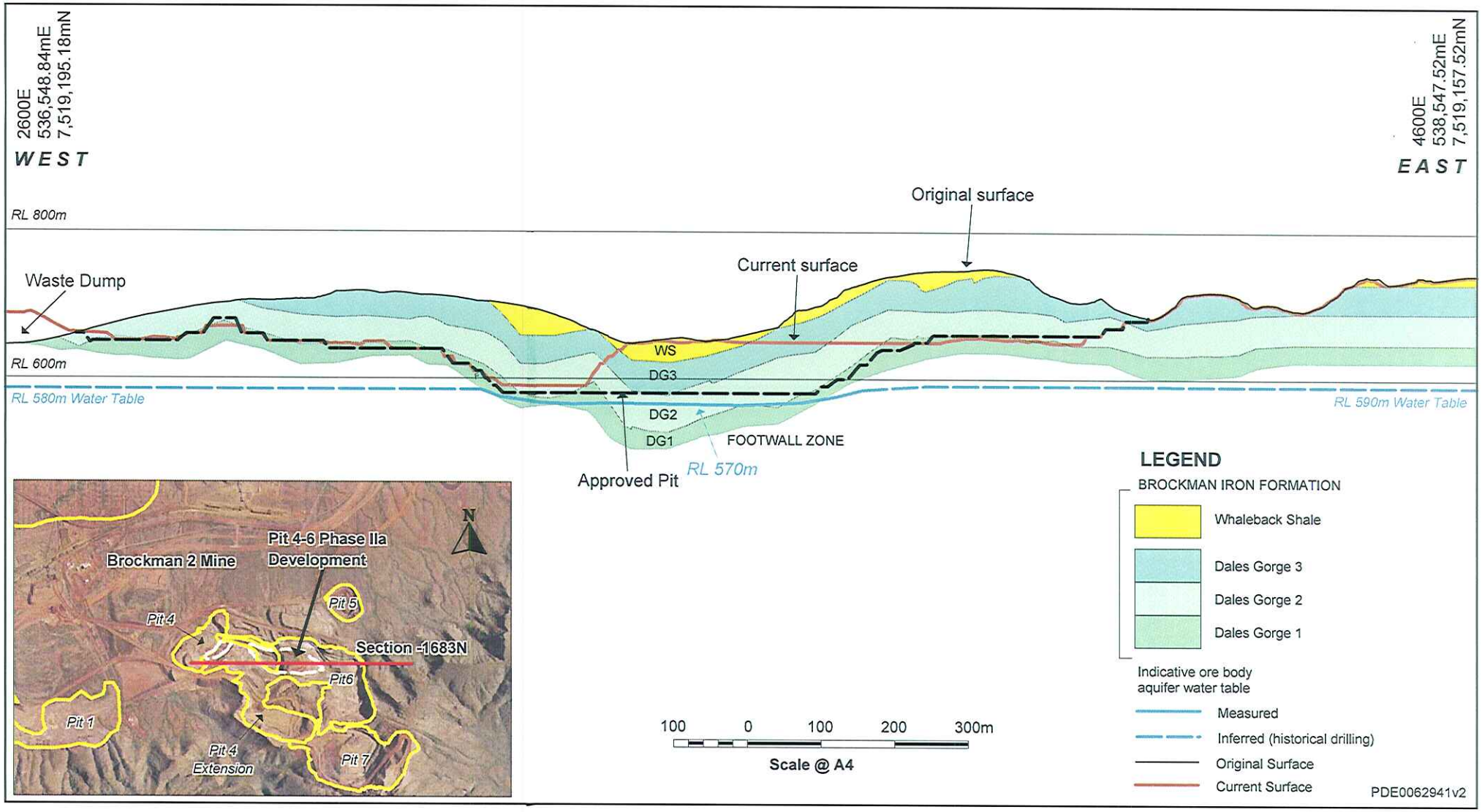

Figure 4: Phase IIa Development - indicative cross-section of approved mine design looking north