

## Attachment 1 to Statement 775

### Change to Proposal

**Proposal:** Pardoo Iron Ore Mine and Direct Shipping from Port Hedland – Shire of East Pilbara and Town of Port Hedland

**Proponent:** Atlas Iron Limited

**Change:** Multiple project design and operational changes to the mine site.

#### Key Characteristics Table:

Element	Description of approved proposal	Description of approved changes to proposal (bolded)
Life of mine (mine production)	5 to 6 years	5 to 6 years
Area of disturbance	Not more than 280 hectares.	<b>Not more than 324 hectares</b>
Amount of resource Direct Shipping Ore	Approximately 7.4 million tonnes	Element removed
Area of pit footprint	<ul style="list-style-type: none"> <li>• Bobby (6.8 hectares)</li> <li>• Olivia (1.1 hectares)</li> <li>• Alice West ( 1.5 hectares)</li> <li>• South Limb (6 hectares)</li> <li>• South Limb West (0.5 hectares)</li> <li>• Connie (1.4 hectares)</li> <li>• Glenda (2.3 hectares)</li> <li>• Alice East (2.8 hectares)</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Bobby (8.1 hectares)</b></li> <li>• <b>Olivia (1.6 hectares)</b></li> <li>• <b>Alice West (1.9 hectares)</b></li> <li>• <b>South Limb (7.1 hectares)</b></li> <li>• <b>South Limb West (1.1 hectares)</b></li> <li>• <b>Connie (1 hectare)</b></li> <li>• <b>Glenda (1.5 hectares)</b></li> <li>• <b>Alice East split into two pits:</b> <ul style="list-style-type: none"> <li>– <b>Alice East 1 (1.9 hectares)</b></li> <li>– <b>Alice East 2 (3.1 hectares)</b></li> </ul> </li> </ul>
Area of pit infrastructure area	<ul style="list-style-type: none"> <li>• Alice (10.9 hectares)</li> <li>• Olivia (16.2 hectares)</li> <li>• Connie (7.9 hectares)</li> <li>• South Limb (24.1 hectares)</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Alice (31.2 hectares)</b></li> <li>• <b>Olivia (15.7 hectares)</b></li> <li>• <b>Connie (8.6 hectares)</b></li> <li>• <b>South Limb (25.7 hectares)</b></li> </ul>
Area of waste rock dump footprint	<ul style="list-style-type: none"> <li>• Bobby/Glenda (13 hectares)</li> <li>• Alice (4.7 hectares)</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Bobby/Glenda (14.7 hectares)</b></li> <li>• <b>Alice (18.6 hectares)</b></li> </ul>
Ore mining rate	1.5 million tonnes per annum	1.5 million tonnes per annum
Waste rock volume over project life	<ul style="list-style-type: none"> <li>• 10.9 million tonnes of waste rock</li> <li>• Maximum of 9.1 million tonnes to be placed in four waste rock dumps</li> </ul>	<ul style="list-style-type: none"> <li>• <b>13.5 million tonnes of waste rock</b></li> <li>• <b>Maximum of 11.6 million tonnes of waste to be placed in four waste rock dump areas</b></li> </ul>
Number of waste rock dumps	4 (Bobby/Glenda, Alice, Olivia and South Limb)	4 (Bobby/Glenda, Alice, Olivia and South Limb)
Number of open pits	8 (Bobby, Glenda, Alice East, Alice West, Olivia, Connie, South Limb and South Limb West).	9 (Bobby, Glenda, <b>Alice East (1 and 2)</b> , Alice West, Olivia, Connie, South Limb and South Limb West).
Number of pits extending below the water table	4 (Bobby, Glenda, Alice East and South Limb)	4 (Bobby, Glenda, <b>Alice East 1</b> and South Limb)
Number of pits to be backfilled above the water table	3 (Glenda, Alice East and South Limb West)	3 (Glenda, <b>Alice East 1</b> & South Limb West)
Dewatering volume	Not more than 5,500 kilolitres per day	<b>Not more than 2.007 gegalitres per year</b>

Element	Description of approved proposal	Description of approved changes to proposal (bolded)
Environmental discharge of surplus water	Approximately 2,200 kilolitres per day Not more than 5,500 kilolitres per day	Not more than <b>2.007 gigalitres per year</b>
Environmental discharge pipeline	<ul style="list-style-type: none"> <li>Southern discharge pipeline</li> <li>Northern discharge pipeline</li> </ul>	<b>Alignment of southern discharge pipeline as per Figure 3</b>
Location of northern and southern water retention ponds	<ul style="list-style-type: none"> <li>Northern retention pond: located near the Bobby pit</li> <li>Southern retention pond: located near South Limb pit</li> </ul>	<ul style="list-style-type: none"> <li><b>Location of northern retention pond as per Figure 3</b></li> <li><b>Location of southern retention pond as per Figure 3</b></li> </ul>
Design of northern and southern water retention ponds	<ul style="list-style-type: none"> <li>Northern water retention pond consists of one secondary and one primary pond</li> <li>Southern water retention pond consists of one secondary and one primary pond</li> </ul>	<ul style="list-style-type: none"> <li><b>Northern water retention pond consists of one primary pond and tank</b></li> <li><b>Southern water retention pond consists of one primary pond and tank</b></li> </ul>
Estimated discharge water saturation zone	<ul style="list-style-type: none"> <li>Northern discharge point not more than 14 hectares</li> <li>Southern discharge point not more than 10 hectares</li> </ul>	<ul style="list-style-type: none"> <li>Northern discharge point not more than 14 hectares</li> <li>Southern discharge point not more than 10 hectares</li> </ul>
Water source and requirements (minesite)	<ul style="list-style-type: none"> <li><i>Potable:</i> De Grey River water Reserve borefield scheme Water – approximately 11 million litres per annum</li> <li><i>Minesite operations</i> (dust suppression and washdown): open pit dewatering</li> <li><i>Port dust suppression:</i> scheme water approximately 5,800 litres per shipment</li> </ul>	<ul style="list-style-type: none"> <li><i>Potable:</i> De Grey River Water Reserve borefield scheme water – approximately 11 million litres per annum</li> <li><i>Minesite operations</i> (dust suppression and washdown): open pit dewatering</li> <li><i>Port dust suppression:</i> scheme water approximately 5,800 litres per shipment</li> </ul>
Power source and requirements (minesite)	Diesel powered generators – approximately 2 million volt amperes per year	Diesel powered generators – approximately 2 million volt amperes per year
Fuel use and storage	<ul style="list-style-type: none"> <li>Two 105,000 litre self-bunded tanks</li> <li>Approximately 6 million litres per annum diesel use, including power generation</li> </ul>	<ul style="list-style-type: none"> <li><b>Two 110,000 litre self-bunded tanks</b></li> <li>Approximately 6 million litres per annum diesel use, including power generation</li> </ul>
Transport to ports	<ul style="list-style-type: none"> <li>Quad configuration road trains</li> <li>Maximum of 5 truck movements per hour (includes empty and full trips).</li> </ul>	<ul style="list-style-type: none"> <li>Quad configuration road trains</li> <li>Maximum of 5 truck movements per hour (includes empty and full trips)</li> </ul>
Operational hours	<ul style="list-style-type: none"> <li>Minesite: mining and crushing and screening – day shift, 7 days a week</li> <li>Minesite: product loading and hauling – 24 hours, 7 days a week</li> <li>Product transport (along the Great Northern Highway) – 24 hours, 7 days a week</li> <li>Product transport (within Port Hedland) – 22 hours, 7 days a week</li> </ul>	<ul style="list-style-type: none"> <li>Minesite: mining and crushing and screening – <b>24 hours (day and night shifts), 7 days a week</b></li> <li>Minesite: product loading and hauling – 24 hours, 7 days a week</li> <li>Product transport (along the Great Northern Highway) – 24 hours, 7 days a week</li> <li>Product transport (within Port Hedland) – 22 hours, 7 days a week</li> </ul>

<b>Element</b>	<b>Description of approved proposal</b>	<b>Description of approved changes to proposal (bolded)</b>
Crushing and screening plant	Mobile, diesel-over-hydraulic crushing and screening plant that will remain within in the mining operations centre for the duration of the project	<b>Licensed mobile crushing and screening plant to be used in various locations for duration of project</b>
Disturbance area and location of explosives magazine	Disturbance area of approximately 0.5 hectares, location as per Figure 1	<b>Disturbance area of approximately 0.4 hectares, location as per Figure 3</b>
Emulsion storage	Bought to minesite and used daily, with a contingency volume of 10,000 kilograms stored at the minesite within the explosives magazine	<b>60,000 kilograms stored onsite in a separate bulk emulsion storage area (disturbance area 0.35 hectares) as per Figure 3</b>
Minesite access road	Alignment as per Figure 1	<b>Alignment as per Figure 3</b>

**List of Figures:**

Figure 3: Project Layout of approved revised proposal

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**Dr Paul Vogel**  
 CHAIRMAN  
 Environmental Protection Authority  
 under delegated authority

Approval date: 25.8.09

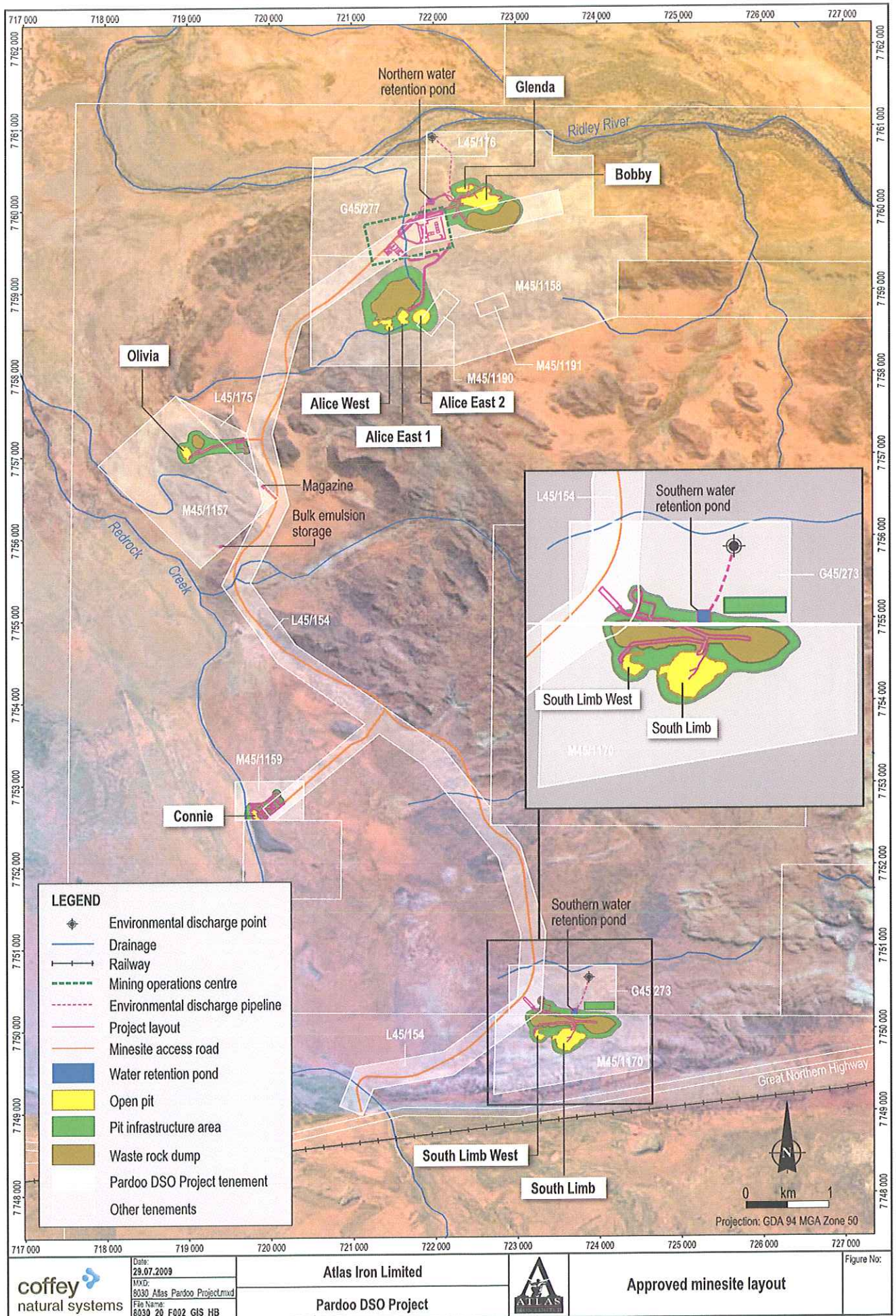


Figure 3: Project Layout of approved revised proposal