

Statement No.

CONFRANTAL OF A COLEMAN STRAFT.

MINISTER FOR THE ENVIRONMENT; SCIENCE

000712

STATEMENT THAT A PROPOSAL MAY BE IMPLEMENTED (PURSUANT TO THE PROVISIONS OF THE ENVIRONMENTAL PROTECTION ACT 1986)

OREBODY 25 EXTENSION PROJECT 8 KILOMETRES NORTH-EAST OF NEWMAN SHIRE OF EAST PILBARA

Proposal:	The proposal is to expand the existing mining operations at the Orebody 25 mine, located eight kilometres north-east of Newman in the Pilbara Region. The project involves mining the remainin ore from Pits 1 and 3, and mining Pit 3 to below the water table therefore increasing the ore production rate to eight million tonne per annum, as documented in schedule 1 of this statement.	
Proponent:	BHP Billiton Iron Ore Pty Ltd	
Proponent Address:	225 St George's Terrace, PERTH WA 6000	

Assessment Number: 1609

Report of the Environmental Protection Authority: Bulletin 1210

The proposal referred to in the above report of the Environmental Protection Authority may be implemented subject to the following conditions and procedures:

1 Proposal Description

1-1 The proponent shall implement the proposal as documented and described in schedule 1 of this statement subject to the conditions and procedures of this statement.

2 **Proponent Environmental Management Commitments**

2-1 The proponent shall fulfil the environmental management commitments contained in schedule 2 of this statement.

Published on

24 JAN 2006

3 Proponent Nomination and Contact Details

- 3-1 The proponent for the time being nominated by the Minister for the Environment under section 38(6) or (7) of the *Environmental Protection Act 1986* is responsible for the implementation of the proposal until such time as the Minister for the Environment has exercised the Minister's power under section 38(7) of the Act to revoke the nomination of that proponent and nominate another person as the proponent for the proposal.
- 3-2 If the proponent wishes to relinquish the nomination, the proponent shall apply for the transfer of proponent under section 38(6a) and provide the name and address of the person who will assume responsibility for the proposal, together with a letter from that person which states that the proposal will be carried out in accordance with the conditions and procedures of this statement, and documentation on the capability of that person to implement the proposal and fulfil the conditions and procedures.
- 3-3 The nominated proponent shall provide written notice to the Department of Environment of any change of the name and address of the proponent within 30 days of such change.

4 Time Limit of Approval to Commence

4-1 The proponent shall provide evidence to the Department of Environment that the proposal has substantially commenced within five years from the date of this statement or the approval granted in this statement shall lapse and be void.

Note: The Minister for the Environment will determine any dispute as to whether the proposal has been substantially commenced.

- 4-2 The proponent shall make an application for any extension of approval for the substantial commencement of the proposal to the Minister for the Environment prior to the expiration date of this statement, which shall demonstrate that:
 - 1. the environmental factors of the proposal reported in the Report of the Environmental Protection Authority (ie Environmental Protection Authority Bulletin 1210) specified in this statement have not changed significantly;
 - 2. no additional, significant, environmental factors have arisen; and
 - 3. all relevant government authorities and stakeholders have been consulted.

Note: The Minister for the Environment may consider the grant of an extension of the time limit of approval not exceeding five years for the substantial commencement of the proposal.

5 Compliance Reporting

5-1 The proponent shall submit compliance reports in accordance with a schedule approved by the Department of Environment and with the compliance monitoring guidelines, and shall:

- 1. describe, or update, the state of implementation of the proposal;
- 2. provide verifiable evidence of compliance with the conditions, procedures and commitments;
- 3. review the effectiveness of corrective and preventative actions contained in the environmental management plans and programs;
- 4. provide verifiable evidence of the fulfilment of requirements specified in the environmental management plans and programs;
- 5. identify all confirmed non-conformities and non-compliances and describe the related corrective and preventative actions taken; and
- 6. identify potential non-conformities and non-compliances and provide evidence of how these are being assessed for corrective action.

6 **Performance Review**

- 6-1 The proponent shall submit a performance review report every five years following the formal authority issued to the decision-making authorities under section 45(7) of the *Environmental Protection Act 1986*, to the requirements of the Minister for the Environment on advice of the Environmental Protection Authority, which addresses:
 - 1. the major environmental issues associated with implementing the project; the environmental objectives for those issues; the methodologies used to achieve these; and the key indicators of environmental performance measured against those objectives;
 - 2. the level of progress in the achievement of sound environmental performance, including industry benchmarking, and the use of best practicable measures available;
 - 3. significant improvements gained in environmental management, including the use of external peer reviews;
 - 4. stakeholder and community consultation about environmental performance and the outcomes of that consultation, including a report of any on-going concerns being expressed; and
 - 5. the proposed environmental objectives over the next five years, including improvements in technology and management processes.
- 6-2 The proponent may submit a report prepared by an independent auditor to the Chief Executive Officer of the Department of Environment on each condition of this statement which requires the preparation of a management plan, programme, strategy or system, stating whether the requirements of each condition have been fulfilled within the timeframe stated within each condition.

7 Conservation of Significant Flora and Fauna

7-1 Prior to ground-disturbing activities, the proponent shall provide a summary report of the results of recent and adequate surveys for significant flora and fauna species in the areas to be disturbed by the project, and provide documentary evidence from the Department of Conservation and Land Management on the requirement, if any, for a

Significant Species Management Plan to be prepared for the conservation of significant flora or fauna species recorded in the project area.

7-2 In the event that conservation-significant flora or fauna species are recorded in the project area and on the Department of Conservation and Land Management's recommendation, in accordance with condition 7-1, the proponent shall prepare a Significant Species Management Plan, in consultation with the Department of Conservation and Land Management, to the requirements of the Minister for the Environment on advice of the Environmental Protection Authority, prior to ground-disturbing activities.

The Significant Species Management Plan shall describe the significant, identified species of flora and fauna, and describe significant vegetation associations and habitat areas, and shall set out procedures to:

- 1. demarcate identified populations and/or individuals of conservation-significant, identified species of flora and fauna, vegetation associations and habitat areas;
- 2. modify land clearing plans and evaluate alternative mine plans, to mitigate or avoid impacts on the conservation-significant, identified species of flora and fauna, vegetation associations and habitat areas;
- 3. mitigate impacts where proposed mining activities are likely to impact on conservation-significant, identified species of flora and fauna, vegetation associations and habitat areas;
- 4. monitor and record impacts on conservation-significant, identified species of flora and fauna, vegetation associations and habitat areas; and
- 5. implement appropriate contingency measures where impacts on conservationsignificant, identified species of flora and fauna, vegetation associations and habitat areas are identified.
- 7-3 The proponent shall review and revise the Significant Species Management Plan required by condition 7-2 at intervals not exceeding five years.
- 7-4 The proponent shall implement the Significant Species Management Plan required by condition 7-2.
- 7-5 The proponent shall make the Significant Species Management Plan required by condition 7-2 publicly available.

8 Weeds

8-1 The proponent shall not carry out land-disturbing activities other than in accordance with a Weed Management Plan, prepared in consultation with the Department of Conservation and Land Management and the Department of Agriculture to the requirements of the Minister for the Environment on advice of the Environmental Protection Authority.

This plan shall:

- 1. describe the location and area affected for each weed species which occurs in the proposal area;
- 2. identify any additional weed species which have the potential to occur in the proposal area;

and shall set out procedures and measures to:

- 3. monitor weed species;
- 4. control or eradicate weed species;
- 5. prevent the spread of weed species; and
- 6. prevent the introduction of any additional weed species.
- 8-2 The proponent shall implement the Weed Management Plan required by condition 8-1.
- 8-3 The proponent shall make the Weed Management Plan required by condition 8-1 publicly available.

9 Subterranean Fauna

9-1 Within six months following the formal authority issued to the decision-making authorities under section 45(7) of the *Environmental Protection Act 1986*, the proponent shall commence surveys for subterranean fauna in accordance with a Subterranean Fauna Survey Plan prepared to the requirements of the Minister for the Environment on advice of the Environmental Protection Authority and the Department of Conservation and Land Management.

The Subterranean Fauna Survey Plan shall set out procedures and measures to:

- 1. survey areas affected by project operations; and
- 2. survey areas with similar habitats outside the areas to be affected by project operations to establish the conservation significance of fauna within the areas to be affected.
- 9-2 In the event that the results of the surveys required by condition 9-1 indicate that there is a risk of loss of subterranean species or communities as a result of project operations, the proponent shall institute management measures in accordance with a Subterranean Fauna Management Plan, prepared in consultation with the Department of Conservation and Land Management to the requirements of the Minister for the Environment on advice of the Environmental Protection Authority.

The Subterranean Fauna Management Plan shall set out procedures and measures to:

- 1. avoid and/or manage impacts on subterranean fauna species and/or communities and their habitats where the long-term survival of those species and/or communities may be at risk as a result of project operations;
- 2. monitor the distribution and abundance of species and/or communities of subterranean fauna, groundwater levels, groundwater quality and other relevant

aspects of subterranean fauna habitat to ensure that the long-term survival of subterranean fauna species and communities is not compromised as a result of project operations; and

- 3. take timely remedial action in the event that monitoring indicates that project operations may compromise the long-term survival of subterranean fauna and/or communities.
- 9-3 Prior to commencement of dewatering activities at Orebody 25, the proponent shall implement the Subterranean Fauna Management Plan required by condition 9-2.
- 9-4 The proponent shall make the Subterranean Fauna Management Plan required by condition 9-2 publicly available.

10 Decommissioning and Final Rehabilitation

- 10-1 The proponent shall rehabilitate and decommission the new project areas in accordance with the Decommissioning and Rehabilitation Plan provided in the Environmental Protection Statement (November 2005) document or subsequent revisions which meet the requirements of the Minister for the Environment on advice of the Environmental Protection Authority.
- 10-2 The proponent shall review and revise the Decommissioning and Rehabilitation Plan, in consultation with the Water and Rivers Commission, the Department of Industry and Resources and the Department of Conservation and Land Management, as required, to the requirements of the Minister for the Environment on advice of the Environmental Protection Authority.

The objective of this plan is to ensure that closure planning and rehabilitation are carried out in a coordinated, progressive manner and are integrated with development planning, consistent with the Australian and New Zealand Minerals and Energy Council / Minerals Council of Australia *Strategic Framework for Mine Closure (2000)*, current best practice, and the agreed land uses.

Each revision of the Decommissioning and Rehabilitation Plan shall set out procedures and measures to:

- 1. manage over the long term ground and surface water systems affected by the open pits and waste rock dumps;
- 2. rehabilitate all disturbed areas to a standard suitable for the agreed end land use(s);
- 3. backfill Pit 3, to at least five metres above the pre-mining groundwater table so as to manage impacts on groundwater quality and subterranean fauna;
- 4. identify contaminated areas, including provision of evidence of notification and propose management measures to relevant statutory authorities; and

- 5. develop management strategies and/or contingency measures in the event that operational experience and/or monitoring indicate that a closure objective is unlikely to be achieved.
- 10-3 The proponent shall make revisions of the Decommissioning and Rehabilitation Plan required by condition 10-2 publicly available.

Procedures

- 1. Where a condition states "to the requirements of the Minister for the Environment on advice of the Environmental Protection Authority", the Environmental Protection Authority will provide that advice to the Department of Environment for the preparation of written notice to the proponent.
- 2. The Environmental Protection Authority may seek advice from other agencies or organisations, as required, in order to provide its advice to the Department of Environment.
- 3. Where a condition lists advisory bodies, it is expected that the proponent will obtain the advice of those listed as part of its compliance reporting to the Department of Environment.

Notes

- 1. The Minister for the Environment will determine any dispute between the proponent and the Environmental Protection Authority or the Department of Environment over the fulfilment of the requirements of the conditions.
- 2. The proponent may be required to apply for a Works Approval, Licence and Registration for this project under the provisions of Part V of the *Environmental Protection Act 1986*.

Dr Judy Edwards MLA MINISTER FOR THE ENVIRONMENT; SCIENCE

2 4 JAN 2008

The Proposal (Assessment No. 1609)

The proposal involves expanding existing mining operations at the Orebody 25 mine. The project is located 8 kilometres north-east of Newman, in the Pilbara Region (Figure 1). Mining activities at Orebody 25 have involved development of hard rock Pits 1, 2 and 3 (Figure 2). Pit 2 was mined below the watertable in the late 1990s and was subsequently backfilled and rehabilitated. Pits 1 and 3 are still active.

The project involves increasing the ore production rate from 7 Mtpa to approximately 8 Mtpa, and mining the remaining ore from Pits 1 and 3. As part of this proposal, Pit 3 is scheduled to be expanded below the water table in early 2006, and mining of the additional ore in Pit 1 is scheduled to start in mid-2006. At the proposed production rate, it is estimated that the known reserves in Pit 1 and Pit 3 will be mined out in 2009 and 2013 respectively.

The main components of the proposal are:

- increasing the ore production rate from approximately 7 to 8 Mtpa;
- continued hard rock mining of resources in the existing approved Pits 1 and 3;
- extension of mining at Pit 1 outside existing approved areas;
- extension of mining at Pit 3 below the watertable and outside existing approved areas;
- extensions to existing approved overburden storage areas and low grade ore stockpiles, progressive development of new overburden storage areas, and placement of overburden in existing and new mined-out pits (ie. in-fill dumping);
- progressive construction of haul roads and light vehicle access roads to the open pits, overburden storage areas and mine infrastructure; and
- increasing ore transport from 11 trains per week to approximately 13 trains per week.

Significant features of the proposal are:

- progressive mining and rehabilitation of the site;
- backfilling of pit 3 to above the original groundwater level; and
- permanent changes to the final landforms, including hill-like features of the out-of-pit overburden storage areas.

The key characteristics of the proposal follow in table 1.

Table 1 -	Key Proposal	Characteristics	(Assessment No.	1609)
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Aspect	Orebody 25 Extension Project
Life of Extensions	Approximately 7 to 8 years (i.e. from 2006 to 2013).
Land Disturbance Area	The existing Orebody 25 Mine has disturbed approximately 415 hectares (ha) as at June 2005. The extensions will disturb approximately 230 ha.
Hard Rock Mining	Hard rock mining will continue in the existing approved Pits 1 and 3. The proposed operations will require extensions to Pit 1 above the watertable and extensions to Pit 3 below the watertable.
Ore Crushing and Screening	Continued on-site primary and secondary crushing and screening to produce a nominal <100 millimetre (mm) product.
Overburden Storage Areas	Continued placement in existing overburden storage areas and low-grade ore stockpiles, plus new overburden storage areas located adjacent to or as extension of existing overburden storage areas. In-fill dumping in mined-out pits.
Power Demand and Supply	Power demand will increase by approximately 5000 mega watt hours (MWh) per annum and continue to be supplied via a 66 kilovolt (kV) overhead transmission power line from the Newman gas-fired power station. The existing power supply system has design capacity to supply up to 20,000 kVA.
Ore Transport	Rail loading using front-end loaders and a Top-up Rail Loading Facility. Ore is transported from the mine to Port Hedland for tertiary crushing and blending prior to shipping. Transport of ore to Port Hedland will increase from 11 to approximately 13 trains per week.
Water Supply	Water demand will increase to approximately 2900 m ³ /day. Process water will be supplied from the dewatering operations. It will continue to be used for dust suppression and ore processing. The potable demand will be similar to current levels (ie. 1.5 mega litres [ML] per annum) and will be sourced from the H-line bores of the Ophthalmia Dam Wellfield.
Greenhouse Gases	The current greenhouse gas emission from Orebody 25 is 27,400 tCO _{2-e} /annum and the extension will increase the greenhouse gas emissions to $31,400$ tCO _{2-e} /annum. A total of around 255,000 tCO _{2-e} will be emitted over the life of the project.
Employment	Current employment is 100 persons and will increase to 130 throughout the extension project period.

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Figure 1: Regional Location



Figure 2: Project Location

Schedule 2

Proponent's Environmental Management Commitments

OREBODY 25 EXTENSION PROJECT 8 KILOMETRES NORTH-EAST OF NEWMAN SHIRE OF EAST PILBARA

(Assessment No. 1609)

BHP Billiton Iron Ore Pty Ltd

Proponent's Environmental Management Commitments

OREBODY 25 EXTENSION PROJECT – 8 KM NORTH-EAST OF NEWMAN, SHIRE OF EAST PILBARA (Assessment No. 1609)

Note: The term "commitment" as used in this schedule includes the entire row of the table and its six separate parts as follows:

- a commitment number;
- a commitment topic;
- the objective of the commitment;
- the 'action' to be undertaken by the proponent;
- the timing requirements of the commitment; and
- the body/agency to provide technical advice to the Department of Environment.

Number	Topic	Objective	Action	Timing	Advice
1	Environmental Management Plan.	Implement an Environmental Management Plan which describes procedures and practices for protection of key environmental aspects during all phases of mining	 Implement the Environmental Management Plan for the Project which is contained as Appendix A of Orebody 25 Extension Project, Environmental Protection Statement (November 2005). Review and revise the Environmental Management Plan at intervals of no more than five years, or when significant changes occur at the Mine. Each revision will contain the following: A description of key components of the Project (ie. mining method, overburden management, ore processing, ore loading and transportation, water and power supply, and service infrastructure). A description of the Environmental Management System, and the Environmental Risk Assessment and Management systems which will be used at the Project. It will include a description of how best practicable environmental measures have been applied to risks which are identified (through the Risk Assessment Process) as requiring this level of management to reduce residual risk to an acceptable level. A description of the environmental management procedures and practices to be used to minimise impacts on key environmental aspects. These aspects are to include: soil resources, landforms, surface water, groundwater, flora (including priority species and species of interest), fauna (including priority species and species of interest), fauna (including priority species and species of interest), fauna hazardous materials, and Aboriginal heritage. For each environmental aspect, the Environmental Management Plan will describe the overall management objective, potential impacts, management Plan will be provided to key stakeholders, and to other interested parties if requested. 	Revised at intervals of no more than five years during operations.	DoIR DOCEP CALM DIA

Number	Topic	Objective	Action	Timing	Advice
2	Annual Environmental Report.	Annually prepare reports on environmental management, monitoring and rehabilitation.	 Prepare an Annual Environmental Report (AER) which discusses environmental management actions, summarises monitoring results and describes rehabilitation activities at the Orebody 25 Extension Project over the 12-month reporting period. Distribute the AER to key stakeholders and provide copies to other interested parties if requested. 	Annually during operations.	-
3	Mining Below the Watertable	To minimise the long term impacts of the open pits on groundwater following mine closure.	• Backfill all mine voids at Orebody 25 which progress below watertable to above the pre-mining watertable.	Prior to mine closure	
4	Potentially Acid Forming Overburden	To minimise potential impacts of mining Potentially Acid Forming overburden in the event that it is encountered.	 In the event that potentially acid-forming overburden is to be mined, the proponent will develop and implement management measures which minimise the potential for the material to generate acid rock drainage. If required, develop, in consultation with DoIR, management measures to be incorporated in the Project Environmental Management Plan. 	During operations	DoIR
5	Monitoring of vegetation communities in Homestead Creek	Monitor the effect of dewatering drawdown on potentially affected vegetation communities.	 Implement the Orebody 23 tree-monitoring programme. Take remedial action as agreed with relevant Government decision-making authorities if significant tree stress due to mine dewatering is recorded. 	During operations	CALM

Key

CALM = Department of Conservation & Land Management DIA = Department of Indigenous Affairs DOCEP = Department of Consumer & Employment Protection DoE = Department of Environment DoIR = Department of Industry & Resources

EPA = Environmental Protection Authority

Attachment 1 to Statement 712

Change to Proposal

Proposal:	The proposal is to expand the existing mining operations at the Orebody 25 mine, located eight kilometres north-east of Newman, in the Pilbara Region. The project involves mining the remaining ore from Pits 1 and 3, and mining Pit 3 to below the water table, therefore increasing the ore production rate to eight million tonnes per annum.
Proponent:	BHP Billiton Iron Ore Pty Ltd
Change:	Mining below the watertable within Orebody Pit 1 to a depth below the watertable of approximately 30m. The pit will be backfilled to 5m above the watertable with waste material at the cessation of mining activities.

Amendment of Schedule 1 – Key Proposal Characteristics

Features of currently approved Proposal:

The Proposal

Element	Quantities/Description
Hard Rock mining	Hard rock mining will continue in the existing approved Pits 1 and 3. The proposed operations will require extensions to Pit 1 above the watertable and extensions to Pit 3 below the watertable. Backfilling of pit 3 to above the original groundwater level.
Water Supply	Water demand approximately 2900m ³ /day

Features of approved change to Proposal:

The	Proposal	
Tahi	la 1	

Element	Quantities/Description
Hard Rock mining	Hard rock mining will continue in the existing approved Pits 1 and 3. The proposed operations will require extensions to Pit 1 and Pit 3 below the watertable.
	Backfilling of pits 1 and 3 to above the original groundwater level
Water Supply	Water demand approximately 3200m ³ /day

Approved under delegation from the Minister for the Environment:

Approval Date: 11-6-10 8

Change to Proposal

Proposal: Orebody 25 Extension Project 8 Kilometres North-east of Newman Shire of East Pilbara.

Proponent: BHP Billiton Iron Ore Pty Ltd.

Change: Change OB25 mine operation life until 2018 to mine additional ore from Pit 3 and portion of Pit 1 (i.e. Pit 1 East). The changes involve mining Pit 1 East (15 metres) and Pit 3 (further 21 metres) below the watertable, and to amend the existing and approved Pit 3 area to increase the currently approved land disturbance area up to 650 hectares within a maximum project disturbance area of up to 725 hectares (as shown in Figure 3).

Key Characteristics Table:

Element	Description of approved proposal	Description of approved changed proposal
Life of Extensions	Approximately 7 to 8 years (i.e. from 2006 to 2013).	Approximately 13 years (i.e. from 2006 to 2018).
Land Disturbance Area	The existing Orebody 25 Mine has disturbed approximately 415 hectares (ha) as at June 2005. The extensions will disturb approximately 230 ha.	Up to 650 hectares within a maximum disturbance area of 725 hectares. • Pit 1: 166 hectares • Pit 3: 125 hectares
Hard Rock Mining	Hard rock mining will continue in the existing approved Pits 1 and 3. The proposed operations will require extensions to Pit 1 and Pit 3 below the watertable. Backfilling of pits 1 and 3 to above the original ground water level.	Hard rock mining below the watertable in approved Pit 1 area and Pit 3 area (see figure 3). Backfilling of pits 1 and 3 to above the original ground water level.
Ore Crushing and Screening	Continued on-site primary and secondary crushing and screening to produce a nominal <100 millimetre (mm) product.	Continued on-site primary and secondary crushing and screening to produce a nominal <100 millimetre product.
Overburden Storage Areas	Continued placement in existing overburden storage areas located adjacent to or as extension of existing overburden storage areas. In-fill dumping in mined-out pits.	Continued placement in existing overburden storage areas located adjacent to or as extension of existing overburden storage areas. In-fill dumping in mined-out pits,
Power Demand and Supply	Power demand will increase by approximately 5000 mega watt hours (MWh) per amum and continue to be supplied via a 66 kilovolt (kV) overhead transmission power line from the Newman gas-fired power station. The existing power supply system has design capacity to supply up to 20,000 kVA.	Power demand will increase by approximately 5000 mega watt hours per annum and continue to be supplied via a 66 kilovolt overhead transmission power line from the Newman gas-fired power station. The existing power supply system has design capacity to supply up to 20,000 Kilo Volt Amperes.
Ore Transport	Rail loading using front-end loaders and a Top-up Rail Loading Facility. Ore is transported from the mine to Port Hedland for tertiary crushing and blending prior to shipping. Transport of ore to Port Hedland will increase from 11 to approximately 13 trains per week.	Rail loading using front-end loaders and a Top-up Rail Loading Facility. Ore is transported from the mine to Port Hedland for tertiary crushing and blending prior to shipping. Transport of ore to Port Hedland will increase from 11 to approximately 13 trains per week.

Element	Description of approved proposal	Description of approved changed proposal
Water Supply	Water demand approximately 3200m ³ /day. Process water will be supplied from the dewatering operations. It will continue to be used for dust suppression and ore processing. The potable demand will be similar to current levels (i.e. 1.5 mega litres [ML] per annum) and will be sourced from the H-line bores of the Ophthalmia Dam Wellfield.	Divided as per below.
Water Demand		Water demand approximately 3200m ³ per day. It will continue to be used for operational needs.
Water Supply Source		Process water to be supplied from current OB25 and OB23 (Statement 478) dewatering operations. Licensed dewatering of 6.59 gigalitres per annum (combined amount from OB25 and OB23).
Water Supply Network		Existing water supply and reticulation network to include dewatering from Pit 1 East and additional dewatering from Pit 3. Licensed discharge volume of 38 megalitres per annum (combined amount from OB25 and OB23).
Potable Water		Up to 1.5 mega litres per annum and sourced from the H-line bores of the Ophthalmia Dam Wellfield.
Greenhouse Gases	The current greenhouse gas emission from Orebody 25 is 27,400 tCO _{2-c} /annum and the extension will increase the greenhouse gas emissions to 31,400 tCO _{2-c} /annum. A total of around 255,000 tCO _{2-c} will be emitted over the life of the project	The current combined greenhouse gas emission from OB25 and OB23 (Statement 478) is 47,000 tonnes of CO_2 per annum. The OB25 life extension will not increase greenhouse gas emissions per annum. A total of around 423,000 tonnes of CO_2 per annum will be emitted over the combined life of OB25 and OB23.
Employment	Current employment is 100 persons and will increase to 130 throughout the extension project period	Employment removed as no longer relevant to assessment criteria

List of Figures:

Figure 3: OB25 Mine layout showing maximum disturbance boundary and approved change to Pit 3 boundary

Dr Paul Vogel CHAIRMAN Environmental Protection Authority

Approval date: 2 10 09



Figure 3: Orebody 25 Mine layout showing maximum disturbance boundary and approved change to Pit 3 boundary

Attachment 3 to Ministerial Statement 712

Change to proposal under s45C of the Environmental Protection Act 1986

Proposal:	Orebody 25 Extension Project, 8 kilometres north-east of Newman,
•	Shire of East Pilbara

Proponent: BHP Billiton Iron Ore Pty Ltd

Change: Increase in disturbance area and development envelope.

Element	Description of Proposal	Description of approved change to proposal
Life of Extensions	Approximately 13 years (i.e. from 2006 to 2018).	Approximately 13 years (i.e. from 2006 to 2018).
Land Disturbance Area	Up to 650 hectares within a maximum disturbance area of 725 hectares. • Pit 1: 166 hectares • Pit 3: 125 hectares	Up to 800 hectares within a development envelope of 1,258 hectares, as shown in Figure 4. • Pit 1: 166 hectares • Pit 3: 125 hectares
Hard Rock Mining	Hard rock mining below the watertable in approved Pit 1 area and Pit 3 area. Backfilling of pits 1 and 3 to above the original ground water level.	Hard rock mining below the watertable in approved Pit 1 area and Pit 3 area. Backfilling of pits 1 and 3 to above the original ground water level.
Ore Crushing and Screening	Continued on-site primary and secondary crushing and screening to produce a nominal < 100 millimetre product.	Continued on-site primary and secondary crushing and screening to produce a nominal < 100 millimetre product.
Overburden Storage Areas	Continued placement in existing overburden storage areas located adjacent to or as extension of existing overburden storage areas. In- fill dumping in mined-out pits.	Continued placement in existing overburden storage areas located adjacent to or as extension of existing overburden storage areas. In- fill dumping in mined-out pits.

Key Characteristics Table: This table replaces Table 1 in Schedule 1

	<i>,</i>			-
	Power Demand and	Power demand will increase	Power demand will increase	
	Supply	by approximately 5000 mega	by approximately 5000 mega	
		watt hours per annum and	watt hours per annum and	
		continue to be supplied via a	continue to be supplied via a	
		transmission power line from	transmission power line from	
		the Newman gas-fired power	the Newman gas-fired power	
		station. The existing power	station. The existing power	
		capacity to supply up to	capacity to supply up to	
		20,000 Kilo Volt Amperes.	20,000 Kilo Volt Amperes.	
•	Ore Transport	Rail loading using front-end	Rail loading using front-end	
•		loaders and a Top-up Rail	loaders and a Top-up Rail	
		transported from the mine to	transported from the mine to	. •
		Port Hedland for tertiary	Port Hedland for tertiary	
	· · ·	crushing and blending prior to	crushing and blending prior to	I
•	· ·	Port Hedland will increase	Port Hedland will increase	•
		from 11 to approximately 13	from 11 to approximately 13	· ·
· ··	· · · · · · · · · · · · · · · · · · ·	trains per week.	trains per week.	
	Water Supply	Divided as per below.	Divided as per below.	
	Water Demand	Water demand approximately	Water demand approximately	1
•		continue to be used for	3200 m3 per day. It will continue to be used for	•
		operational needs.	operational needs.	
	Water Supply Source	Process water to be supplied	Process water to be supplied	
		from current orebody 25 and	from current orebody 25 and	
•	· · ·	dewatering operations	dewatering operations	
		Licensed dewatering of 6.59	Licensed dewatering of 6.59	
,	-	gigalitres per annum	gigalitres per annum	
		(combined amount from Orebody 25 and Orebody 23)	(combined amount from Orebody 25 and Orebody 23)	
	Water Supply	Existing water supply and	Existing water supply and	
2	Network	reticulation network to include	reticulation network to include	
		dewatering from Pit 1East and	dewatering from Pit 1East and	ĺ
		additional dewatering from Pit	additional dewatering from Pit	.
•		of 38 megalitres per annum	of 38 megalitres per annum	
·	•	(combined amount from	(combined amount from	
•		Urebody 25 and Orebody 23	Urebody 25 and Orebody 23	-
	Potable Vvater	Up to 1.5 mega litres per annum and sourced from the	up to 1.5 mega litres per	
		H-line bores of the Ophthalmia	H-line bores of the Ophthalmia	
		Dam Wellfield	Dam Wellfield	
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Greenhouse Gases	The current combined greenhouse gas emission from Orebody 25 and Orebody 23 (Statement 478) is 47,000 tonnes of CO2 per annum. The orebody 25 life extension will not increase greenhouse gas emissions per annum. A total of around 423,000 tonnes of CO2 per annum will be emitted over the combined life of Orebody 25	The current combined greenhouse gas emission from Orebody 25 and Orebody 23 (Statement 478) is 47,000 tonnes of CO2 per annum. The orebody 25 life extension will not increase greenhouse gas emissions per annum. A total of around 423,000 tonnes of CO2 per annum will be emitted over the combined life of Orebody 25
	emitted over the	annum will be emitted over the
	and Orebody 23.	and Orebody 23.

Note: Text in **bold** in the Key Characteristics Table, indicates change/s to the proposal.

List of Figures:

Figure 4: Orebody 25 development envelope.

Dr Paul Vogel CHAIRMAN Environmental Protection Authority under delegated authority

19-9-12 Approval date:



Figure 1: Existing and proposed maximum disturbance boundary for Orebody 25

Change to proposal approved under section 45C of the Environmental Protection Act 1986

This Attachment replaces Schedule 1 and all previous Attachments of Ministerial Statement 712

Proposal: Orebody 25 Extension Project 8 Kilometres North-East of Newman Shire of East Pilbara

Proponent: BHP Billiton Iron Ore Pty Ltd

Changes:

- Remove references to licensed volumes of water related to dewatering and water use.
- Remove elements that are not key characteristics.

Table 1: Summary of the Proposal

Proposal Title	Orebody 25 Extension Project 8 Kilometres North-East of Newman,
	Shire of East Pilbara
Short	The proposal is to expand the existing mining operations at the Orebody
Description	25 mine, located 8 kilometres north-east of Newman in the Pilbara
	Region (Figure 1).

Previously Authorised Extent Element Authorised Extent Life of Extensions Approximately 13 years (i.e. Approximately 13 years (i.e. from from 2006 to 2018). 2006 to 2018). Up to 800 hectares within a Up to 800 hectares within a Land Disturbance maximum disturbance boundary Area maximum disturbance boundary of 1,258 hectares as of 1.258 hectares as shown in shown in Figure 4. Figure 1. • Pit 1: 166 hectares • Pit 1: 166 hectares Pit 3: 125 hectares Pit 3: 125 hectares Hard Rock Mining Hard rock mining below the Hard rock mining below the watertable in approved Pit 1 watertable in approved Pit 1 area and Pit 3 area. area and Pit 3 area. Backfilling of pits 1 and 3 to Backfilling of pits 1 and 3 to above the original ground water above the original ground water level. level. Ore Crushing and Continued on-site primary and Removed as not a relevant key Screening secondary crushing and proposal characteristic. screening to produce a nominal < 100 millimetre product Overburden Continued placement in Continued placement in existing Storage Areas existing overburden storage overburden storage areas located adjacent to or as areas located adjacent to or as extension of existing extension of existing overburden overburden storage areas. Instorage areas. In-fill dumping in fill dumping in mined-out pits mined-out pits

Table 2: Location and authorised extent of physical and operational elements

Power Demand and Supply	Power demand will increase by approximately 5000 megawatt hours per annum and continue to be supplied via a 66 kilovolt overhead transmission power line from the Newman gas-fired power station. The existing power supply system has design capacity to supply up to 20,000 Kilo Volt Amperes.	Removed as not a relevant key proposal characteristic.
Ore Transport	Rail loading using front-end loaders and a Top-up Rail Loading Facility. Ore is transported from the mine to Port Hedland for tertiary crushing and blending prior to shipping. Transport of ore to Port Hedland will increase from 11 to approximately 13 trains per week.	Rail loading using front-end loaders and a Top-up Rail Loading Facility. Ore is transported from the mine to Port Hedland for tertiary crushing and blending prior to shipping. Transport of ore to Port Hedland will increase from 11 to approximately 13 trains per week.
Water Supply	Divided as per below.	Removed as more appropriately described under "Water Demand" and "Water Supply Source".
Water Demand	Water demand approximately 3200 m ³ per day. It will continue to be used for operational needs	Water demand approximately 3200 m ³ per day. It will continue to be used for operational needs.
	operational neede:	
Water Supply Source	Process water to be supplied from current orebody 25 and orebody 23 (Statement 478) dewatering operations. Licensed dewatering of 6.59 gigalitres per annum (combined amount from Orebody 25 and Orebody 23).	Process water to be supplied from current orebody 25 and orebody 23 (Statement 478) dewatering operations. Licensed dewatering undertaken in accordance with Department of Water "Licence to Take Water" approvals.
Water Supply Source Water Supply Network	Process water to be supplied from current orebody 25 and orebody 23 (Statement 478) dewatering operations. Licensed dewatering of 6.59 gigalitres per annum (combined amount from Orebody 25 and Orebody 23). Existing water supply and reticulation network to include dewatering from Pit 1 East and additional dewatering from Pit 3. Licensed discharge volume of 38 megalitres per annum (combined amount from Orebody 25 and Orebody 23).	Process water to be supplied from current orebody 25 and orebody 23 (Statement 478) dewatering operations. Licensed dewatering undertaken in accordance with Department of Water "Licence to Take Water" approvals. Existing water supply and reticulation network to include dewatering from Pit 1 East and additional dewatering from Pit 3. Licensed discharge volume of 13.9 GL/a (combined amount from Orebody 25 and Orebody 23).

Greenhouse	The current combined	The current combined
Gases	greenhouse gas emission from	greenhouse gas emission from
	Orebody 25 and Orebody 23	Orebody 25 and Orebody 23
	(Statement 478) is 47,000	(Statement 478) is 47,000
	tonnes of CO2 per annum. The	tonnes of CO2 per annum. The
	orebody 25 life extension will	orebody 25 life extension will not
	not increase greenhouse gas	increase greenhouse gas
	emissions per annum. A total of	emissions per annum. A total of
	around 423,000 tonnes of CO2	around 423,000 tonnes of CO2
	per annum will be emitted over	per annum will be emitted over
	the combined life of Orebody	the combined life of Orebody 25
	25 and Orebody 23.	and Orebody 23.

Note: Text in **bold** in Table 2 indicates a change to the proposal.

Table 3: Abbreviations

Abbreviation	Term
ha	hectare
km	kilometre
GL/a	Gigalitres per annum
ML/a	Megalitres per annum

Figures (attached)

Figure 1: Development envelope for Orebody 25 (includes boundaries of Orebody 23, Orebody 24 and Orebody 32)

[Signed 12 October 2015]

Dr Paul Vogel

CHAIRMAN Environmental Protection Authority under delegated authority

Approval date: _____



Figure 1: Development envelope for Orebody 25