



**Referral of a Proposal by the Proponent to the Environmental Protection Authority under Section 38(1) of the *Environmental Protection Act 1986*.**

**PURPOSE OF THIS FORM**

Section 38(1) of the *Environmental Protection Act 1986* (EP Act) provides that where a development proposal is likely to have a significant effect on the environment, a proponent may refer the proposal to the Environmental Protection Authority (EPA) for a decision on whether or not it requires assessment under the EP Act. This form sets out the information requirements for the referral of a proposal by a proponent.

Proponents are encouraged to familiarise themselves with the EPA’s *General Guide on Referral of Proposals* [see Environmental Impact Assessment/Referral of Proposals and Schemes] before completing this form.

A referral under section 38(1) of the EP Act by a proponent to the EPA must be made on this form. A request to the EPA for a declaration under section 39B (derived proposal) must be made on this form. This form will be treated as a referral provided all information required by Part A has been included and all information requested by Part B has been provided to the extent that it is pertinent to the proposal being referred. Referral documents are to be submitted in two formats – hard copy and electronic copy. The electronic copy of the referral will be provided for public comment for a period of 7 days, prior to the EPA making its decision on whether or not to assess the proposal.

**CHECKLIST**

Before you submit this form, please check that you have:

	Yes	No
Completed all the questions in Part A (essential).	✓	
Completed all applicable questions in Part B.	✓	
Included Attachment 1 – location maps.	✓	
Included Attachment 2 – additional document(s) the proponent wishes to provide (if applicable).	✓	
Included Attachment 3 – confidential information (if applicable).		
Enclosed an electronic copy of all referral information, including spatial data and contextual mapping but excluding confidential information.	✓	

Following a review of the information presented in this form, please consider the following question (a response is optional).

Do you consider the proposal requires formal environmental impact assessment?

Yes

No

Not sure

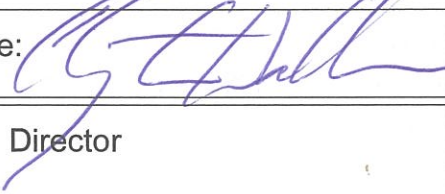
If yes, what level of assessment?

Assessment on Proponent Information

Public Environmental Review

**PROPONENT DECLARATION** (to be completed by the proponent)

I, Clayton Walker, declare that I am authorised on behalf of Robe River Mining Co. Pty. Ltd to submit this form and further declare that the information contained in this form is true and not misleading.

Signature: 	Name (print): Clayton Walker
Position: Director	Company: Robe River Mining Co. Pty. Ltd.
Date: 5 December 2014	

## PART A - PROPONENT AND PROPOSAL INFORMATION

(All fields of Part A must be completed for this document to be treated as a referral)

### 1 PROPONENT AND PROPOSAL INFORMATION

#### 1.1 Proponent

Name	Robe River Mining Co. Pty. Ltd.
Joint Venture parties (if applicable)	Robe River Joint Venture Participants
Australian Company Number (if applicable)	71 008 694 246
Postal Address (where the proponent is a corporation or an association of persons, whether incorporated or not, the postal address is that of the principal place of business or of the principal office in the State)	GPO Box A42 Perth WA 6837
Key proponent contact for the proposal: <ul style="list-style-type: none"><li>• name</li><li>• address</li><li>• phone</li><li>• email</li></ul>	Carly Nixon Environmental Approvals Specialist GPO Box A42 Perth WA 6837 T: +61 (08) 6213 1297 <a href="mailto:carly.nixon@riotinto.com">carly.nixon@riotinto.com</a>
Consultant for the proposal (if applicable): <ul style="list-style-type: none"><li>• name</li><li>• address</li><li>• phone</li><li>• email</li></ul>	NA

#### 1.2 Proposal

Title	West Angelas Deposit A west and Deposit F Revised Proposal.
Description	The Proponent, Robe River Mining Co. Pty. Ltd., on behalf of the Robe River Joint Venture Participants, proposes to mine iron ore from above and below the water table at Deposits A west and F, as satellite deposits to the existing West Angelas mining operations. Once mined, ore will be transported by haul trucks to existing processing facilities.
Extent (area) of proposed ground disturbance.	The Proposal will require clearing of approximately 3,220 ha.  This referral is not seeking approval for activities already authorised as part of the existing operations.

<p>Timeframe in which the activity or development is proposed to occur (including start and finish dates where applicable).</p>	<p>Production commenced at the existing West Angelas mining operations in 2001 at Deposit A and in 2011 at Deposit E. Deposit A provides the primary ore source with Deposit E supplementing the production to maintain the current production rate. Deposit B is the next major ore source with mining scheduled to commence in 2015. Production from all existing deposits will decline from 2016. An additional ore source is therefore required to sustain current production from the West Angelas Project. Deposits A west and F have been identified as the next to be developed in the conceptual long term development strategy.</p> <p>Robe proposes to commence mining of Deposits A west and F in 2016.</p>
<p>Details of any staging of the proposal.</p>	<p>The Proposal is not staged.</p>
<p>Is the proposal a strategic proposal?</p>	<p>No.</p>
<p>Is the proponent requesting a declaration that the proposal is a derived proposal?</p>	<p>No.</p>
<p>Please indicate whether, and in what way, the proposal is related to other proposals in the region.</p>	<p>Deposits A west and F will be developed as satellite deposits to the existing West Angelas mining operations.</p>
<p>Does the proponent own the land on which the proposal is to be established? If not, what other arrangements have been established to access the land?</p>	<p>The West Angelas Iron Ore Mine is located on Mineral Lease 248SA (AML248SA) which was granted in 1976 under the <i>Iron Ore (Robe River) Agreement Act 1964</i>. The infrastructure associated with the West Angelas mining operations is located on a number of Miscellaneous Licences and General Purpose Leases that were granted under the <i>Mining Act 1978</i>. The Leases are held under the Robe River Joint Venture which is managed on behalf of the partners by Robe River Mining Co. Pty. Ltd.</p> <p>The current tenure is appropriate tenure for all current and proposed mining activities and mining related infrastructure.</p>
<p>What is the current land use on the property, and the extent (area in hectares) of the property?</p>	<p>The location of West Angelas is very remote, with no neighbouring mining or pastoral activities.</p>

### 1.3 Location

Name of the Shire in which the proposal is located.	The Proposal is located in the Shire of East Pilbara.
For urban areas: <ul style="list-style-type: none"> <li>• street address;</li> <li>• lot number;</li> <li>• suburb; and</li> <li>• nearest road intersection.</li> </ul>	NA.
For remote localities: <ul style="list-style-type: none"> <li>• nearest town; and</li> <li>• distance and direction from that town to the proposal site.</li> </ul>	The West Angelas Iron Ore Mine is located approximately 130 kilometres (km) northwest of Newman in the Pilbara region of Western Australia.
Electronic copy of spatial data - GIS or CAD, geo-referenced and conforming to the following parameters: <ul style="list-style-type: none"> <li>• GIS: polygons representing all activities and named;</li> <li>• CAD: simple closed polygons representing all activities and named;</li> <li>• datum: GDA94;</li> <li>• projection: Geographic (latitude/longitude) or Map Grid of Australia (MGA);</li> <li>• format: Arcview shapefile, Arcinfo coverages, Microstation or AutoCAD.</li> </ul>	Enclosed?: <b>Yes.</b>

### 1.4 Confidential Information

Does the proponent wish to request the EPA to allow any part of the referral information to be treated as confidential?	No.
If yes, is confidential information attached as a separate document in hard copy?	NA.

### 1.5 Government Approvals

Is rezoning of any land required before the proposal can be implemented? If yes, please provide details.	No.				
Is approval required from any Commonwealth or State Government agency or Local Authority for any part of the proposal? If yes, please complete the table below.	Yes.				
<table border="1" style="width: 100%;"> <tr> <td style="width: 25%;">Agency/Authority</td> <td style="width: 25%;">Approval required</td> <td style="width: 25%;">Application lodged Yes / No</td> <td style="width: 25%;">Agency/Local Authority contact(s) for proposal</td> </tr> </table>	Agency/Authority	Approval required	Application lodged Yes / No	Agency/Local Authority contact(s) for proposal	
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Minister for Environment; Environmental Protection Authority (EPA)	<i>Environmental Protection Act 1986 (WA) - Part IV:</i> Ministerial Statement	Purpose of this document	EPA The Atrium 168 St Georges Tce PERTH WA 6000
Department of Water (DoW)	<i>Rights in Water and Irrigation Act 1914 (WA):</i> Licenses to Construct Wells and Take Water	No	DoW The Atrium 168 St Georges Tce PERTH WA 6000

## PART B - ENVIRONMENTAL IMPACTS AND PROPOSED MANAGEMENT

### 2. ENVIRONMENTAL IMPACTS

Describe the impacts of the proposal on the following elements of the environment, by answering the questions contained in Sections 2.1-2.11:

- 2.1 flora and vegetation;
- 2.2 fauna;
- 2.3 rivers, creeks, wetlands and estuaries;
- 2.4 significant areas and/ or land features;
- 2.5 coastal zone areas;
- 2.6 marine areas and biota;
- 2.7 water supply and drainage catchments;
- 2.8 pollution;
- 2.9 greenhouse gas emissions;
- 2.10 contamination; and
- 2.11 social surroundings.

These features should be shown on the site plan, where appropriate.

For all information, please indicate:

- (a) the source of the information; and
- (b) the currency of the information.

#### 2.1 Flora and Vegetation

2.1.1 Do you propose to clear any native flora and vegetation as a part of this proposal?

[A proposal to clear native vegetation may require a clearing permit under Part V of the EP Act (Environmental Protection (Clearing of Native Vegetation) Regulations 2004)]. Please contact the Department of Environment and Conservation (DEC) for more information.

(please tick)  Yes **If yes, complete the rest of this section.**

No **If no, go to the next section**

2.1.2 How much vegetation are you proposing to clear (in hectares)?

The Proposal will require clearing of approximately 3,220 hectares (ha).

This proposed clearing is comprised of the following components: clearing for mining will be increased by 920 ha, from 2,260 ha to 3,180 ha; clearing for waste dumps will be increased by approximately 1,853 ha, from 1,407 ha to 3,260 ha; and clearing for infrastructure will be increased by 450 ha, from 1,000 ha to 1,450 ha.

2.1.3 Have you submitted an application to clear native vegetation to the DEC (unless you are exempt from such a requirement)?

Yes

No

**If yes**, on what date and to which office was the application submitted of the DEC?

The clearing required for this Proposal is the subject of this application.

2.1.4 Are you aware of any recent flora surveys carried out over the area to be disturbed by this proposal?

Yes

No

**If yes**, please attach a copy of any related survey reports and provide the date and name of persons / companies involved in the survey(s).

**If no**, please do not arrange to have any biological surveys conducted prior to consulting with the DEC.

Refer to Section 5 of the Environmental Review Document.

2.1.5 Has a search of DEC records for known occurrences of rare or priority flora or threatened ecological communities been conducted for the site?

Yes

No

If you are proposing to clear native vegetation for any part of your proposal, a search of DEC records of known occurrences of rare or priority flora and threatened ecological communities will be required. Please contact DEC for more information.

A search of Department of Parks and Wildlife (DPaW) records was undertaken as part of the vegetation and flora assessment undertaken by *ecologia*.

2.1.6 Are there any known occurrences of rare or priority flora or threatened ecological communities on the site?

Yes

No

**If yes**, please indicate which species or communities are involved and provide copies of any correspondence with DEC regarding these matters.

The Priority 1; West Angelas Cracking-Clay Priority Ecological Community (**PEC**) occurs extensively within the area. This community is defined as 'open tussock grasslands of *Astrebla pectinata*, *A. elymoides*, *Aristida latifolia* in combination with *Astrebla squarrosa* and low scattered shrubs of *Sida fibulifera*, on basalt derived cracking-clay loam depressions and flowlines'. Threats to this community include; clearing for further mining expansion and future infrastructure development, weed invasion and changes in fire regimes.



The West Angelas Cracking Clay PEC is not proposed to be detrimentally impacted by the Proposal.

Nine Priority Flora records are considered to be of relevance to the Proposal:

- *Aristida jerichoensis* var. *subspinulifera* (Priority (P) 1);
- *Brachyscome* sp. Wanna Munna Flats (S. van Leeuwen 4662) (P1);
- *Brunonia* sp. long hairs (D.E. Symon 2440) (P1);
- *Aristida lazaridis* (P2);
- *Indigofera gilesii* subsp. *gilesii* (P3);
- *Themeda* sp. Hamersley Station (M.E. Trudgen 11431) (P3);
- *Triodia* sp. Mt Ella (M.E. Trudgen 12739) (P3);
- *Rhagodia* sp. Hamersley (M. Trudgen 17794) (P3); and
- *Goodenia nuda* (P4).

Refer to Section 5 of the Environmental Review Document.

2.1.7 If located within the Perth Metropolitan Region, is the proposed development within or adjacent to a listed Bush Forever Site? (You will need to contact the Bush Forever Office, at the Department for Planning and Infrastructure)

Yes

No

**If yes**, please indicate which Bush Forever Site is affected (site number and name of site where appropriate).

Not applicable.

2.1.8 What is the condition of the vegetation at the site?

West Angelas is not located within a pastoral lease and, as a result, is not actively grazed. Subsequently, the vegetation condition was assessed to be in very good to excellent condition despite evidence of weed invasion.

Refer to Section 5 of the Environmental Review Document.

## 2.2 Fauna

2.2.1 Do you expect that any fauna or fauna habitat will be impacted by the proposal?

(please tick)

Yes

**If yes**, complete the rest of this section.

No

**If no**, go to the next section.

2.2.2 Describe the nature and extent of the expected impact.

The Proposal will result in the clearing of up to 3,220 ha of potential fauna habitat, therefore habitat loss is likely to be the biggest threat to fauna, including several conservation significant fauna species (namely: Fork-tailed Swift, the Western Pebble-mound Mouse, the Short-tailed Mouse, the Ghost Bat, the Bush Stone-curlew and the Australian Bustard).

2.2.3 Are you aware of any recent fauna surveys carried out over the area to be disturbed by this proposal?

Yes

No

**If yes**, please attach a copy of any related survey reports and provide the date and name of persons / companies involved in the survey(s).

**If no**, please do not arrange to have any biological surveys conducted prior to consulting with the DEC.

Refer to Section 6 of the Environmental Review Document.

2.2.4 Has a search of DEC records for known occurrences of Specially Protected (threatened) fauna been conducted for the site?

Yes

No (please tick)

A search of DPaW records was undertaken as part of the terrestrial fauna assessment undertaken by *ecologia*.

2.2.5 Are there any known occurrences of Specially Protected (threatened) fauna on the site?

Yes

No

**If yes**, please indicate which species or communities are involved and provide copies of any correspondence with DEC regarding these matters.

Six conservation significant species recorded or assessed as having a high likelihood of occurrence are considered to be of relevance to the Proposal:

- Fork-tailed Swift, *Apus pacificus* (EPBC M, WC Act S3);
- Western Pebble-mound Mouse, *Pseudomys chapmani* (DPaW P4);
- Short-tailed Mouse, *Leggadina lakedownensis* (DPaW P4);
- Ghost Bat, *Macroderma gigas* (DPaW P4);
- Bush Stone-curlew, *Burhinus grallarius* (DPaW P4); and
- Australian Bustard, *Ardeotis australis* (DPaW P4).

The presence of the Ghost Bat represents the most significant faunal finding. Populations of this species are known from a series of roost caves in the region including the potential maternity cave; AA1 near Deposit F.

Refer to Section 6 of the Environmental Review Document.

## 2.3 Rivers, Creeks, Wetlands and Estuaries

2.3.1 Will the development occur within 200 metres of a river, creek, wetland or estuary?

(please tick)  Yes **If yes**, complete the rest of this section.

No **If no**, go to the next section.

2.3.2 Will the development result in the clearing of vegetation within the 200 metre zone?

Yes  No **If yes**, please describe the extent of the expected impact.

2.3.3 Will the development result in the filling or excavation of a river, creek, wetland or estuary?

Yes  No **If yes**, please describe the extent of the expected impact.

Deposit F is located within the same valley as an ephemeral unnamed tributary, hereafter referred to as central creek.

Central creek will be intercepted immediately upstream of Deposit F.

2.3.4 Will the development result in the impoundment of a river, creek, wetland or estuary?

Yes  No **If yes**, please describe the extent of the expected impact.

Deposit F, Pit F2 naturally intercepts central creek. A 2% AEP capacity diversion channel is proposed to divert the creek upstream of the F2 pit eastwards across the catchment divide into the adjacent Weeli Wolli catchment. No viable alternative option exists to continue the flow of this creek within its natural catchment.

Refer to Section 7 of the Environmental Review Document.

2.3.5 Will the development result in draining to a river, creek, wetland or estuary?

Yes  No **If yes**, please describe the extent of the expected impact.

2.3.6 Are you aware if the proposal will impact on a river, creek, wetland or estuary (or its buffer) within one of the following categories? (please tick)

Conservation Category Wetland	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unsure
Environmental Protection (South West Agricultural Zone Wetlands) Policy 1998	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unsure
Perth's Bush Forever site	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unsure
Environmental Protection (Swan & Canning Rivers) Policy 1998	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unsure
The management area as defined in s4(1) of the <i>Swan River Trust Act 1988</i>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unsure
Which is subject to an international agreement, because of the importance of the wetland for waterbirds and waterbird habitats (e.g. Ramsar, JAMBA, CAMBA)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Unsure

## 2.4 Significant Areas and/ or Land Features

2.4.1 Is the proposed development located within or adjacent to an existing or proposed National Park or Nature Reserve?

Yes       No      **If yes**, please provide details.

The Proposal is located approximately 20 km from the nearest boundary of the Karijini National Park.

2.4.2 Are you aware of any Environmentally Sensitive Areas (as declared by the Minister under section 51B of the EP Act) that will be impacted by the proposed development?

Yes       No      **If yes**, please provide details.

2.4.3 Are you aware of any significant natural land features (e.g. caves, ranges etc) that will be impacted by the proposed development?

Yes       No      **If yes**, please provide details.

## 2.5 Coastal Zone Areas (Coastal Dunes and Beaches)

2.5.1 Will the development occur within 300metres of a coastal area?

(please tick)       Yes      **If yes**, complete the rest of this section.

No      **If no**, go to the next section.

2.5.2 What is the expected setback of the development from the high tide level and from the primary dune?

2.5.3 Will the development impact on coastal areas with significant landforms including beach ridge plain, cusped headland, coastal dunes or karst?

Yes       No      **If yes**, please describe the extent of the expected impact.

2.5.4 Is the development likely to impact on mangroves?

Yes       No      **If yes**, please describe the extent of the expected impact.

## 2.6 Marine Areas and Biota

2.6.1 Is the development likely to impact on an area of sensitive benthic communities, such as seagrasses, coral reefs or mangroves?

Yes       No      **If yes**, please describe the extent of the expected impact.

2.6.2 Is the development likely to impact on marine conservation reserves or areas recommended for reservation (as described in *A Representative Marine Reserve System for Western Australia*, CALM, 1994)?

Yes       No      **If yes**, please describe the extent of the expected impact.

2.6.3 Is the development likely to impact on marine areas used extensively for recreation or for commercial fishing activities?

Yes       No      **If yes**, please describe the extent of the expected impact, and provide any written advice from relevant agencies (e.g. Fisheries WA).

## 2.7 Water Supply and Drainage Catchments

2.7.1 Are you in a proclaimed or proposed groundwater or surface water protection area?

(You may need to contact the Department of Water (DoW) for more information on the requirements for your location, including the requirement for licences for water abstraction. Also, refer to the DoW website)

Yes       No      **If yes**, please describe what category of area.

The Proposal is located within the Pilbara Groundwater Area proclaimed under the *Rights in Water and Irrigation Act 1914*.

2.7.2 Are you in an existing or proposed Underground Water Supply and Pollution Control area?

(You may need to contact the DoW for more information on the requirements for your location, including the requirement for licences for water abstraction. Also, refer to the DoW website)

Yes       No      **If yes**, please describe what category of area.

2.7.3 Are you in a Public Drinking Water Supply Area (PDWSA)?

(You may need to contact the DoW for more information or refer to the DoW website. A proposal to clear vegetation within a PDWSA requires approval from DoW.)

Yes       No      **If yes**, please describe what category of area.

2.7.4 Is there sufficient water available for the proposal?

(Please consult with the DoW as to whether approvals are required to source water as you propose. Where necessary, please provide a letter of intent from the DoW)

Yes       No      (please tick)

2.7.5 Will the proposal require drainage of the land?

Yes       No      **If yes**, how is the site to be drained and will the drainage be connected to an existing Local Authority or Water Corporation drainage system? Please provide details.

2.7.6 Is there a water requirement for the construction and/ or operation of this proposal?

(please tick)  Yes **If yes**, complete the rest of this section.

No **If no**, go to the next section.

2.7.7 What is the water requirement for the construction and operation of this proposal, in kilolitres per year?

West Angelas is considered to be a water neutral (to small deficit) site in terms of water balance; operational water demand is roughly equivalent to dewatering requirements. While the site as a whole is water neutral, the water management of each deposit is different with some in deficit and others in surplus. Water sources are integrated to ensure continuity of supply across West Angelas. This integrated water management strategy will continue to be implemented to address water supply and demand requirements for the Revised Proposal.

Refer to Section 9 of the Environmental Review Document.

2.7.8 What is the proposed source of water for the proposal? (e.g. dam, bore, surface water etc.)

Dewatering water is used on-site in the first instance to supply water for operational purposes (processing and dust suppression).

The Turee Creek B Borefield is used to provide potable water to the mine and camp facilities and, when required, water for processing purposes and dust suppression.

## 2.8 Pollution

2.8.1 Is there likely to be any discharge of pollutants from this development, such as noise, vibration, gaseous emissions, dust, liquid effluent, solid waste or other pollutants?

(please tick)  Yes **If yes**, complete the rest of this section.

No **If no**, go to the next section.

2.8.2 Is the proposal a prescribed premise, under the Environmental Protection Regulations 1987?

(Refer to the EPA's *General Guide for Referral of Proposals to the EPA under section 38(1) of the EP Act 1986* for more information)

Yes  No **If yes**, please describe what category of prescribed premise.

The Proposal is a Prescribed Premise 'by association' since it is covered by the existing West Angelas Operating Licence L7774/2000. The licence allows Category 5, 6, 63, 64, 73 and 85 activities at West Angelas.

2.8.3 Will the proposal result in gaseous emissions to air?

Yes       No      **If yes**, please briefly describe.

The Proposal will generate Greenhouse Gas (GHG) emissions.

2.8.4 Have you done any modelling or analysis to demonstrate that air quality standards will be met, including consideration of cumulative impacts from other emission sources?

Yes       No      **If yes**, please briefly describe.

No modelling of projected emissions was undertaken as emissions generated by the Proposal are not expected to be greater than or different to those from existing operations.

Emissions have been, and will continue to be, managed under the existing operating licence, the *Clean Energy Act 2011* (Cwth) and the *National Greenhouse and Energy Reporting Act 2007* (Cwth).

2.8.5 Will the proposal result in liquid effluent discharge?

Yes       No      **If yes**, please briefly describe the nature, concentrations and receiving environment.

2.8.6 If there is likely to be discharges to a watercourse or marine environment, has any analysis been done to demonstrate that the State Water Quality Management Strategy or other appropriate standards will be able to be met?

Yes       No      **If yes**, please describe.

2.8.7 Will the proposal produce or result in solid wastes?

Yes       No      **If yes**, please briefly describe the nature, concentrations and disposal location/ method.

Waste rock will be transported by haul trucks to external waste dumps according to the material categorisation. Where practicable, waste may also be used in progressive backfilling of the pits to assist in achieving closure objectives for the site.

Refer to Section 8 of the Environmental Review Document.

2.8.8 Will the proposal result in significant off-site noise emissions?

Yes       No      **If yes**, please briefly describe.



Noise emissions are not expected to be significantly greater than or different to those of existing operations.

2.8.9 Will the development be subject to the Environmental Protection (Noise) Regulations 1997?

Yes

No

**If yes**, has any analysis been carried out to demonstrate that the proposal will comply with the Regulations?

Please attach the analysis.

Noise emissions will be managed under the Environmental Protection (Noise) Regulations 1997. However, previous Noise Assessments have shown that noise levels at the only sensitive receptor, the village, will not exceed Environmental Protection (Noise) Regulation thresholds.

2.8.10 Does the proposal have the potential to generate off-site, air quality impacts, dust, odour or another pollutant that may affect the amenity of residents and other “sensitive premises” such as schools and hospitals (proposals in this category may include intensive agriculture, aquaculture, marinas, mines and quarries etc.)?

Yes

No

**If yes**, please describe and provide the distance to residences and other “sensitive premises”.

The location of West Angelas is very remote, with no neighbouring mining or pastoral activities. The nearest town, Newman, is located approximately 130 km south-east of West Angelas. Therefore, impacts on sensitive receptors from nuisance dust, noise or other air quality impacts are expected to be limited.

2.8.11 If the proposal has a residential component or involves “sensitive premises”, is it located near a land use that may discharge a pollutant?

Yes

No

Not Applicable

**If yes**, please describe and provide the distance to the potential pollution source

## 2.9 Greenhouse Gas Emissions

2.9.1 Is this proposal likely to result in substantial greenhouse gas emissions (greater than 100 000 tonnes per annum of carbon dioxide equivalent emissions)?

Yes

No

**If yes**, please provide an estimate of the annual gross emissions in absolute and in carbon dioxide equivalent figures.

West Angelas is seen as a relatively small emitter of GHG.

2.9.2 Further, if yes, please describe proposed measures to minimise emissions, and any sink enhancement actions proposed to offset emissions.

## 2.10 Contamination

2.10.1 Has the property on which the proposal is to be located been used in the past for activities which may have caused soil or groundwater contamination?

Yes       No       Unsure      **If yes**, please describe.

Deposits A west and F will be developed as satellite deposits to the existing West Angelas mining operations.

2.10.2 Has any assessment been done for soil or groundwater contamination on the site?

Yes       No      **If yes**, please describe.

Groundwater sampling and analysis of water quality indicates that the groundwater is of good quality.

Refer to Section 9 of the Environmental Review Document.

2.10.3 Has the site been registered as a contaminated site under the *Contaminated Sites Act 2003*? (on finalisation of the CS Regulations and proclamation of the CS Act)

Yes       No      **If yes**, please describe.

## 2.11 Social Surroundings

2.11.1 Is the proposal on a property which contains or is near a site of Aboriginal ethnographic or archaeological significance that may be disturbed?

Yes       No       Unsure      **If yes**, please describe.

Archaeological and ethnographic surveys have been undertaken over the majority of the Proposal area. To date no ethnographic sites have been identified. A number of heritage sites have been identified at both Deposits A west and F.

At Deposit A west the majority of the heritage sites include artefact scatters. Based on the current design for Deposit A west, three artefact scatters will be impacted. Section 18 consent will need to be sought for impact to these sites.

At Deposit F the sites identified include rock shelters, scarred trees and artefact scatters. A significant rock shelter containing rock art is located approximately 500m to the north of pit F2.

Based on the current design for Deposit F, one artefact scatter will be directly impacted in pit F2. Three rock shelters within immediate proximity of pit F1 may be affected by indirect impacts as a result of blasting. Additionally, a rock shelter and scarred tree located within vicinity of pit F2 may also be affected by indirect impacts. Section 18 consent for these sites will need to be sought and the rock shelters may require archaeological excavation.

Refer to Section 9 of the Environmental Review Document.

2.11.2 Is the proposal on a property which contains or is near a site of high public interest (e.g. a major recreation area or natural scenic feature)?

Yes       No      **If yes**, please describe.

The Proposal is an extension to an existing, very remote mining operation, located within an area where the dominant land uses are pastoral and mining.

There are no significant features that warrant public interest.

2.11.3 Will the proposal result in or require substantial transport of goods, which may affect the amenity of the local area?

Yes       No      **If yes**, please describe.

### 3. PROPOSED MANAGEMENT

#### 3.1 Principles of Environmental Protection

3.1.1 Have you considered how your project gives attention to the following Principles, as set out in section 4A of the EP Act? (For information on the Principles of Environmental Protection, please see EPA Position Statement No. 7, available on the EPA website)

- |  |   |                             |
|--|---|-----------------------------|
| 1. The precautionary principle.  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| 2. The principle of intergenerational equity.  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| 3. The principle of the conservation of biological diversity and ecological integrity. | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| 4. Principles relating to improved valuation, pricing and incentive mechanisms.        | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| 5. The principle of waste minimisation.  | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |

Refer to Section 13 of the Environmental Review Document

3.1.2 Is the proposal consistent with the EPA's Environmental Protection Bulletins/Position Statements and Environmental Assessment Guidelines/Guidance Statements (available on the EPA website)?

Yes       No

#### 3.2 Consultation

3.2.1 Has public consultation taken place (such as with other government agencies, community groups or neighbours), or is it intended that consultation shall take place?

Yes       No      **If yes**, please list those consulted and attach comments or summarise response on a separate sheet.

Refer to Section 3 of the Environmental Review Document.