



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?	
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
<input type="checkbox"/> Not sure	
If yes, what level of assessment?	
<input type="checkbox"/> Assessment on Proponent Information	<input type="checkbox"/> Public Environmental Review

PROPONENT DECLARATION (to be completed by the proponent)

I, **Ian Keith Butler**, (*full name*) declare that I am authorised on behalf of **Kalgoorlie Consolidated Gold Mines Pty Ltd** (being the person responsible for the proposal) to submit this form and further declare that the information contained in this form is true and not misleading.

Signature <i>IKB</i>	Name (print) Ian Butler
Position: General Manager	Company: Kalgoorlie Consolidated Gold Mines Pty Ltd
Date <i>6/11/2014</i>	

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	Kalgoorlie Consolidated Gold Mines Pty Ltd (KCGM)
Joint Venture parties (if applicable)	
Australian Company Number (if applicable)	ABN 97 009 377 619
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)	Black Street PMB 27 Kalgoorlie WA 6433
Key proponent contact for the proposal: <ul style="list-style-type: none">• name• address• phone• email	Michelle Berryman KCGM Environment and Social Responsibility Manager Black Street PMB 27 Kalgoorlie WA 6433 Tel: (08) 9022 1340 <u>mberryman@kalqold.com.au</u>
Consultant for the proposal (if applicable): <ul style="list-style-type: none">• name• address• phone• email	Not Applicable

1.2 Proposal

Title	KCGM Hidden Secret Project EPA Section 38 Referral and DMP Mining Proposal
Description	Underground mining of the Hidden Secret gold resource from the Mt Charlotte Underground Mine
Extent (area) of proposed ground disturbance.	Mining will be between 215 and 440 m below ground surface and therefore will not require any clearing
Timeframe in which the activity or development is proposed to occur (including start and finish dates where applicable).	Current plans indicate from 2015 to 2018 (subject to approval timelines)
Details of any staging of the proposal.	Not Applicable
Is the proposal a strategic proposal?	No
Is the proponent requesting a declaration that the proposal is a derived proposal? If so, provide the following information on the strategic assessment within which the referred proposal was identified: <ul style="list-style-type: none"> • title of the strategic assessment; and • Ministerial Statement number. 	No
Please indicate whether, and in what way, the proposal is related to other proposals in the region.	The Project will form part of the existing KCGM operations which include the Fimiston Open Pit, Mt Charlotte Underground Mine and the Fimiston and Gidji Processing Plants The Fimiston Operations (including Mt Charlotte) are located adjacent to the City of Kalgoorlie-Boulder approximately 600 km east of Perth, WA. The Gidji Operation is located approximately 20 km north of Kalgoorlie-Boulder

<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>Mining will be between 215 and 440 m below surface extending underground across two active Mining Leases M26/131 and M26/353 held by KCGM Joint Venture Owners - Barrick (Australia Pacific) Limited and Kalgoorlie Lake View Pty Ltd (a subsidiary of Newmont Asia Pacific Ltd)</p>
<p>What is the current land use on the property, and the extent (area in hectares) of the property?</p>	<p>The lease areas are 232.9 Ha (M26/131) and 174.3 Ha (M26/353)</p> <p>Mining will be between 215 and 440 m below surface, with the deeper operations located under part of the declared City of Kalgoorlie-Boulder town site</p>

1.3 Location

<p>Name of the Shire in which the proposal is located.</p>	<p>City of Kalgoorlie-Boulder</p>
<p>For urban areas:</p> <ul style="list-style-type: none"> • street address; • lot number; • suburb; and • nearest road intersection. 	<p>Hidden Secret is predominantly located to the east of Williamstown (a suburb of the City of Kalgoorlie-Boulder); around 350 m east of the Mt Charlotte Underground Mine. Mining will be between 215 and 440 m below surface, with the deeper operations located under some residential properties</p> <p>Refer to Figure 3 - Williamstown / Yarri Road, Kalgoorlie-Boulder</p>
<p>For remote localities:</p> <ul style="list-style-type: none"> • nearest town; and • distance and direction from that town to the proposal site. 	<p>Not Applicable</p>

<p>Electronic copy of spatial data - GIS or CAD, geo-referenced and conforming to the following parameters:</p> <ul style="list-style-type: none"> • GIS: polygons representing all activities and named; • CAD: simple closed polygons representing all activities and named; • datum: GDA94; • projection: Geographic (latitude/longitude) or Map Grid of Australia (MGA); • format: Arcview shapefile, Arcinfo coverages, Microstation or AutoCAD. 	<p>Enclosed?: No</p> <p>Mining will be between 215 and 440 m below ground surface</p> <p>Specific spatial data can be supplied upon request</p>
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1.4 Confidential Information

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

1.5 Government Approvals

<p>Is rezoning of any land required before the proposal can be implemented? If yes, please provide details.</p>		<p>No</p>	
<p>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.</p>		<p>Yes</p>	
<p>Agency/Authority</p>	<p>Approval required</p>	<p>Application lodged</p>	<p>Agency/Local Authority contact(s) for proposal</p>
<p>Department of Mines and Petroleum</p>	<p>Mining Proposal</p>	<p>Yes</p>	<p>Ian Mitchell 08 9222 3441 ian.mitchell@dmp.wa.gov.au</p>

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)?

Not Applicable

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?**

Not Applicable

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.

Not Applicable

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.

Not Applicable

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.

Not Applicable

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?

Not Applicable

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.

Not Applicable

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.

Not Applicable

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)

Not Applicable

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.

Not Applicable

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.

Not Applicable

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.

Not Applicable

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.

Not Applicable

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.

Not Applicable

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)

Not Applicable

Conservation Category Wetland	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unsure
Environmental Protection (South West Agricultural Zone Wetlands) Policy 1998	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unsure
Perth's Bush Forever site	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unsure
Environmental Protection (Swan & Canning Rivers) Policy 1998	<input type="checkbox"/> Yes	<input 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 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 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.

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?

Not Applicable

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.

Not Applicable

2.5.4 Is the development likely to impact on mangroves?

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

Not Applicable

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.

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?

Not Applicable

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

Not Applicable

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.

Outlined in Section 5.2 of Referral Document

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.

2.8.3 Will the proposal result in gaseous emissions to air?

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

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.

In November 2012, KCGM completed a review of fumes from the SOB vent fan. KCGM considered concerns raised in complaints, NEPM Ambient Air Quality criteria air pollutants and potential emissions from the underground operations.

Results were significantly lower than the NEPM ambient air quality standard for NO₂. Therefore, it is considered extremely unlikely that the emissions of NO₂ from the SOB vent fan would be associated with any unacceptable ambient air quality impacts in residential areas. No significant change to these levels is expected as a result of the proposed Project.

Further detail is provided in Section 6.1.2 of the EPA Referral Document

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 generated is used as stope backfill underground in void areas. No development waste rock from the underground operations is brought to the surface.

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

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

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 levels for KCGM are set in the *Environmental Protection (Fimiston Gold Mine Noise Emissions) Approval 2009*. KCGM manages noise in accordance with levels set for the Fimiston Operations (including Mt Charlotte) as part of the Noise and Vibration Monitoring and Management Programme.

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 Project is well below ground level and will utilise existing infrastructure associated with Mt Charlotte Underground Mine. Vibration from blasting has been identified as a potential impact to the amenity of nearby residents.

Independent modelling of blast vibration has indicated a 90% confidence that vibration levels will be below 2.5 mm/s, similar to current Mt Charlotte blasting activities. These blast vibration levels are well below regulatory limits of 5 mm/s (9 in any 10 consecutive blasts less than) and 10 mm/s (no blast greater than) which consider both human tolerance and structural integrity. The designed Maximum Instantaneous Charge (MIC) weights (kg) for blasts in the Hidden Secret area are estimated to be less than 3% of the MIC required to reach the 5mm/s limit for 1 in 10 consecutive blasts.

KCGM manages blasting at Mt Charlotte in accordance with Ministerial levels set for the Fimiston Operations as part of the Noise and Vibration Monitoring and Management Programme. Through implementation of this programme, KCGM commits to undertake all reasonable, practicable and safe measures to minimise vibration from its blasting operations. KCGM will review, update and continue to implement the Noise and Vibration Monitoring and Management Programme for the Project.

Further detail is provided in Section 5.2 and Table 5 of the EPA Referral Document

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.

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

Not Applicable

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.

Not Applicable

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

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

Not Applicable

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.

Not Applicable

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.

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.

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 |

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.

KCGM has undertaken consultation for the Hidden Secret Project with key stakeholders including the Community Reference Group, Williamstown Residents, Government Agencies, Local Council and Business Organisations.

Further detail is provided in Section 8 of the EPA Referral Document