

Environmental Protection Authority

EPA REFERRAL FORM PROPONENT

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 th assessment?	e proposal requires for	mal environmental impact
⊠ Yes	No	Not sure
If yes, what level o	f assessment?	
Assessment or	n Proponent Information	Public Environmental Review

Polaris considers that the proposal requires formal environmental impact assessment at the level of "Assessment on Proponent Information – Category A" in accordance with Clause 10.1 of the *Environmental Impact Assessment Administrative Procedures* 2012.

The rationale for the API-A level of assessment is outlined in Section 6.2 within the supporting document.

PROPONENT DECLARATION (to be completed by the proponent)

I, Sean Gregory (full name) declare that I am authorised on behalf of Polaris Metals 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	Name (print) Sean Gregory
Position – General Manager (Technical Services)	Company - Mineral Resources Limited
Date – 20 December 2013	

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	Polaris Metals Pty Ltd
Joint Venture parties (if applicable)	Not applicable
Australian Company Number (if applicable)	Not applicable
Postal Address	1 Sleat Road
(where the proponent is a corporation or	Applecross
an association of persons, whether incorporated or not, the postal address is	WA 6153
that of the principal place of business or of the principal office in the State)	
Key proponent contact for the	David Temple-Smith
proposal:	Mineral Resources Limited
• name	1 Sleat Road
address	Applecross WA 6153
• phone	P: 08 9329 3700
• email	David.temple-smith@mineralresources.com.au
Consultant for the proposal (if applicable):	Not applicable
• name	
address	
phone	
• email	

1.2 Proposal

Title	Jackson 4 Iron Ore Mine and Haul Road
Description	This proposal is to construct and operate an iron ore mine, haul road and mine infrastructure in the eastern Goldfields region of Western Australia, 50 kilometres north of Koolyanobbing
Extent (area) of proposed ground disturbance.	831 hectares
Timeframe in which the activity or development	Q4 2013
is proposed to occur (including start and finish	
dates where applicable).	
Details of any staging of the proposal.	No staging of the proposal
Is the proposal a strategic proposal?	No
Is the proponent requesting a declaration that	No
the proposal is a derived proposal?	
If so, provide the following information on the	
strategic assessment within which the referred	
proposal was identified:	
 title of the strategic assessment; and 	
 Ministerial Statement number. 	
Please indicate whether, and in what way, the	This proposal is not related to other
proposal is related to other proposals in the	proposals elsewhere in the region.

region.	
Does the proponent own the land on which the	M77/1242
proposal is to be established? If not, what	
	L111230, L111232 and L111234
other arrangements have been established to	
access the land?	
What is the current land use on the property,	Current land use is a mixture of pastoral
and the extent (area in hectares) of the	
property?	conservation park. The mining lease
	covers an area of about 12 km ² .

1.3 Location

Name of the Shire in which the proposal is located.	Shire of Yilgarn
For urban areas:	Not applicable
street address;	
lot number;	
suburb; and	
 nearest road intersection. 	
For remote localities:	Koolyanobbing is located 50 km south
nearest town; and	of the proposal.
 distance and direction from that town to 	
the proposal site.	
Electronic copy of spatial data - GIS or CAD,	
geo-referenced and conforming to the	Enclosed?: Yes
following parameters:	
 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. 	

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?	
If yes, is confidential information attached as a separate document in hard copy?	Not applicable

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			
= - *		-	
Agency/Authority	Approval required	Application lodged Yes / No	Agency/Local Authority contact(s) for proposal
Department of Mines and Petroleum	Mining Proposal	No	Clare Grosser
Department of Environmental Regulation	Works Approval and License	No	To be advised
Department of Water	License to construct and operate bores	No	To be advised
Department of Aboriginal Affairs	Consent to disturb Aboriginal heritage	No	To be advised

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 conf	ained in Sections	2.1-2.11:				

answe	ering	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	e fea	tures should be shown on the site plan, where appropriate.
For al	ll info	rmation, please indicate:
(a	a)	the source of the information; and
(b	o)	the currency of the information.
04 1	F1	and Manatation
		a and Vegetation
2.1.1		you propose to clear any native flora and vegetation as a part of this proposal? proposal to clear native vegetation may require a clearing permit under Part V of
	the	EP Act (Environmental Protection (Clearing of Native Vegetation) Regulations
		(DEC) for
	moi	re information.
		(please tick) Yes If yes, complete the rest of this section.
		No If no, go to the next section
2.1.2	Hov	w much vegetation are you proposing to clear (in hectares)?
	No	more than 831 hectares comprised of the mine (104 ha), accommodation camp
	200	ha), haul road (293 ha), waste rock landform (360 ha) and ancillary astructure (59 ha).
		activation (conta).
213	Hav	ve you submitted an application to clear native vegetation to the DEC (unless
2.1.0		are exempt from such a requirement)?
		Yes • No If yes, on what date and to which office was the
		application submitted of the DEC?

2.1.4	Are you aware o by this proposal?		ra surveys carried out over the area to be disturbed
	✓ Yes	☐ No	If yes , please <u>attach</u> a copy of any related survey reports and <u>provide</u> 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.
		npublished repo	J4 Mine and Haul Road Flora and Vegetation ort prepared for Polaris Metals Pty Ltd. Rev 2
2.1.5			for known occurrences of rare or priority flora or ies 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.
1			rting document for the results of searches of DEC rare or priority flora or threatened ecological
2.1.6	Are there any kn communities on t		es of rare or priority flora or threatened ecological
	✓ Yes	□ No	If yes, please indicate which species or communities are involved and provide copies of any correspondence with DEC regarding these matters.
	area during the s	urvey. No thre	e P3, and one P4) were recorded in the proposal attended taxa are known to occur nor were any such. The Priority taxa are:
	Calytrix creswNeurachne anMelichrus sp.Grevillea georBanksia arbor	nularis (P3) Bungalbin Hill (geana (P3)	(F.H. & M.P MOllemans 3069)(P3), and
		he proposal in	ces of threatened ecological communities in the tersects portions of the Mt Jackson Range Priority

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 vege	etation at the site?
	condition, 33% of qua	adrats were	irveyed quadrats were assessed to be excellent in good condition whilst 2 quadrats were in pooring within open drill lines.
2.2 F	Fauna		
2.2.1	Do you expect that ar	ny fauna or	fauna habitat will be impacted by the proposal?
\$8	(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 a	and extent o	of the expected impact.
	Refer to Section 4.6 extent of the expecte		n 5.3 of the supporting document for the nature and n fauna.
2.2.3	Are you aware of a disturbed by this prop		fauna surveys carried out over the area to be
	y Yes	☐ No	If yes, please <u>attach</u> a copy of any related survey reports and <u>provide</u> 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.
			Mine and Haul Road Terrestrial and Subterranean dreport prepared for Polaris Metals Pty Ltd. Rev 0
2.2.4	Has a search of D (threatened) fauna be		s for known occurrences of Specially Protected ted for the site?
	✓ Yes	☐ No	(please tick)
	D (1 A	Manager and	tion decomposit for the recults of accretice of DEC

Refer to Appendix 2 of the supporting document for the results of searches of DEC records for known occurrences of Specially Protected (threatened) fauna for the site.

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.		
	Refer to Table 11 a known occurrences		in the supporting document for details regarding Protected fauna.		
2.3	Rivers, Creeks, Wetl	ands and E	stuaries		
2.3.1	Will the developmen	t occur withi	n 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 developmen	t result in th	e 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 developmen estuary?	t result in th	ne filling or excavation of a river, creek, wetland or		
	☐ Yes	☐ No	If yes , please describe the extent of the expected impact.		
2.3.4	Will the development estuary?	nt result in	the impoundment of a river, creek, wetland or		
	☐ Yes	☐ No	If yes , please describe the extent of the expected impact.		

2.3.5	Will the development result in draining to a river	r, creek	k, wetlan	d or es	stuary?
	☐ Yes ✓ No If yes , please impact.	descril	oe the ex	tent of	f the expected
2.3.6	Are you aware if the proposal will impact on a ribuffer) within one of the following categories? (p			land o	r estuary (or its
	Conservation Category Wetland		Yes 🗸	No	Unsure
	Environmental Protection (South Wes Agricultural Zone Wetlands) Policy 1998	st	Yes ✓	No	Unsure
	Perth's Bush Forever site		Yes ✓	No	Unsure
	Environmental Protection (Swan & Canning Rivers) Policy 1998	g .	Yes ✓	No	Unsure
	The management area as defined in s4(1) of the Swan River Trust Act 1988	e	Yes ✓	No	Unsure
	Which is subject to an international agreement because of the importance of the wetland fo waterbirds and waterbird habitats (e.g. Ramsar JAMBA, CAMBA)	or 🦳 ,	Yes ✓	No	Unsure
L					
2.4	Significant Areas and/ or Land Features				
2.4.1	Is the proposed development located within or National Park or Nature Reserve?	adjace	ent to an	existir	ng or proposed
	✓ Yes ☐ No If yes, please	provid	e details.		
	The proposed development is situated about 1 the Helena-Aurora Range Conservation Park (I traverses the south-west corner of the HARCP.	HARCI	from the P). A po	weste	rn boundary of f the haul road
2.4.2	Are you aware of any Environmentally Sensitive under section 51B of the EP Act) that w development?				
	☐ Yes ✓ No If yes, please	provid	e details.	ř	
2.4.3	Are you aware of any significant natural land for will be impacted by the proposed development?		s (e.g. ca	aves, r	anges etc) that
	✓ Yes ☐ No If yes, please	provid	e details.	ş	
	The mine is situated in the Jackson Range formation. The mine will impact a relatively sm this range in terms of its structure, composition	all pro	portion o	f the c	

2.5	Coastal Zone Areas (Coastal Du	unes and Beaches)
2.5.1	Will the development	occur with	in 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 the primary dune?	l setback o	f the development from the high tide level and from
2.5.3			n coastal areas with significant landforms including land, coastal dunes or karst?
	☐ Yes	☐ No	If yes , please describe the extent of the expected impact.
2.5.4	Is the development lik	cely to impa	act on mangroves?
	☐ Yes	☐ No	If yes , please describe the extent of the expected impact.
2.6	Marine Areas and Bio	ta	
2.6.1	Is the development li such as seagrasses, of		oact on an area of sensitive benthic communities, or mangroves?
	☐ Yes	✓ No	If yes, please describe the extent of the expected impact.
2.6.2		servation (a	npact on marine conservation reserves or areas as described in <i>A Representative Marine Reserve</i> ALM, 1994)?
	☐ Yes	✓ No	If yes , please describe the extent of the expected impact.
2.6.3	Is the development lik or for commercial fish	4500	act on marine areas used extensively for recreation es?
	☐ 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 proclaim	ed or propos	ed groundwater or surface water protection area?	
	(You may need to co the requirements for abstraction. Also, refe	your location	partment of Water (DoW) for more information on n, including the requirement for licences for water website)	
	✓ Yes	□ No I	f yes , please describe what category of area.	
	The proposal is situated	ted in the Go	ldfields proclaimed groundwater area.	
2.7.2	Control area?		osed Underground Water Supply and Pollution	
		ing the requ	oW for more information on the requirements for irement for licences for water abstraction. Also,	
	☐ Yes	✓ No	If yes , please describe what category of area.	
2.7.3	Are you in a Public D	rinking Wate	r Supply Area (PDWSA)?	
	(You may need to	contact the	DoW for more information or refer to the DoW getation within a PDWSA requires approval from	
	☐ Yes	✓ No	If yes, please describe what category of area.	
2.7.4	Is there sufficient wa	ter available	for the proposal?	
	(Please consult with as you propose. Whe	the DoW as ere necessary	to whether approvals are required to source water y, please provide a letter of intent from the DoW)	
	✓ Yes	☐ No	(please tick)	
	Approvals from the Downater. These approva		quired to construct bores and abstract ground- ight in 2014.	
2.7.5	Will the proposal req	uire drainage	e 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 requ	irement for th	ne 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?
	Up to 2,000,000 kilolitres per year will be required for construction and mining operations. Mining will eventually occur below the water table, and therefore the pit will need to be dewatered.
2.7.8	What is the proposed source of water for the proposal? (e.g. dam, bore, surface water etc.)
	The proposed source of water for the proposal is groundwater abstracted from the pit area.
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.
	Several aspects associated with the proposal are prescribed premises. The relevant categories are:
	 Category 6 – mine dewatering, Category 89 - landfill Category 85 - wastewater treatment
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.

2.8.5	Will the	proposal res	sult in	liquid ef	ffluent discharge?
	~	Yes		Ю	If yes, please briefly describe the nature, concentrations and receiving environment.
	Refer to		of the	e suppo	orting document for details regarding liquid effluent
2.8.6	analysis	s been done	e to d	demonst	to a watercourse or marine environment, has any strate that the State Water Quality Management andards will be able to be met?
		Yes		No	If yes, please describe.
1	Not appli	cable			
2.8.7	Will the	proposal pr	oduce	or resul	ult in solid wastes?
		Yes			If yes, please briefly describe the nature, concentrations and disposal location/ method.
	Refer to solid was		6 of th	e suppo	orting document for details regarding disposal of
2.8.8	Will the	proposal re	sult in	significa	ant off-site noise emissions?
		Yes	× N		If yes, please briefly describe.
2.8.9		ne developr tions 1997?	nent	be sub	bject to the Environmental Protection (Noise)
		Yes	~ N	No	If yes, has any analysis been carried out to demonstrate that the proposal will comply with the Regulations?
					Please attach the analysis.
2.8.10	odour "sensi	or another	pollut s" su	tant that ch as s	tential to generate off-site, air quality impacts, dust at may affect the amenity of residents and other schools and hospitals (proposals in this category re, aquaculture, marinas, mines and quarries etc.)?
		Yes	v 1	No	If yes, please describe and provide the distance to residences and other "sensitive premises".
٠.	The prophowever	oosal will ger there are no	nerate o resid	dust em	missions during construction and operation; other 'sensitive premises' in proximity to the

proposal.

2.8.11			al component or in ay discharge a pollu	volves "sensitive premises", is it it it
	☐ Yes	☐ No	✓ Not Ap	plicable
			If yes , please de to the potential p	scribe and provide the distance ollution source
2.9 G	reenhouse Gas	Emissions		
				ouse gas emissions (greater quivalent emissions)?
	☐ Yes	✓ No		vide an estimate of the annual n absolute and in carbon t figures.
			proposed measures sed to offset emiss	to minimise emissions, and any ions.
2.10 C	ontamination			
2.10.1			proposal is to be lo ed soil or groundwa	cated been used in the past for ter contamination?
	☐ Yes	✓ No	Unsure	If yes, please describe.
2.10.2	Has any assessite?	sment been do	one for soil or grou	undwater contamination on the
	☐ Yes	✓ No	If yes , please	describe.
2.10.3		The same of the sa		e under the <i>Contaminated Sites</i> and proclamation of the CS Act)
	☐ Yes	✓ No	If yes, please	describe.
2.11 Sc	ocial Surroundir	ngs		
2.11.1			which contains on the contains of the contains	or is near a site of Aboriginal ay be disturbed?
	✓ Yes	☐ No	Unsure	If yes, please describe.
	Refer to Se		the supporting do	ocument for details regarding

2.11.2	Is the proposal or (e.g. a major recre	ı a property wh eation area or	nich contains natural sceni	or is near a s c feature)?	ite	of high publi	c interest
	✓ Yes	☐ No	If yes, pleas	e describe.			
	The proposal is s Aurora Range Co with some recrea proposal is unrem	nservation Pa tion value, the	rk. While the portion of the	HARCP has	s na	tural scenic	features
2.11.3	Will the proposal affect the amenity			antial transpo	ort o	of goods, w	hich may
	☐ Yes	✓ No	If yes, pleas	se describe.			
3. P	ROPOSED MANA	GEMENT					
3.1 P	rinciples of Envir	onmental Pro	tection				
3.1.1	Have you conside as set out in sec Environmental Pr the EPA website)	ction 4A of the otection, pleas	e EP Act?	(For informat	tion	on the Prir	nciples of
s	1. The precautiona	ry principle.			V	Yes	☐ No
į	2. The principle of	intergeneratio	nal equity.		~	Yes	☐ No
į	The principle diversity and eco			biological	~	Yes	☐ No
i	Principles relation incentive mecha	100	d valuation, p	oricing and		Yes	✓ No
	5. The principle of	waste minimis	ation.		V	Yes	☐ No
р	Refer to Section 6 roposal is consiste elated Principles of	ent with the ob	ject of the E	ument for a nvironmental	dis Pro	cussion on tection Act	how the 1986 and
3.1.2	Is the propos Bulletins/Position Guidelines/Guida	Stateme	nts and	Environ	me	ntal As	Protection sessment
	✓ Yes	☐ No					

Refer to Section 6.2 for discussion regarding the consistency of the proposal with EPA Position Statements, Assessment Guidelines and Guidance Statements.

2 2	C	.14-4:
3.2	Consi	ultation

3.2.1			place (such as with other government agencies, ours), or is it intended that consultation shall take
	✓ Yes	☐ No	If yes , please list those consulted and attach comments or summarise response on a separate sheet.
	efer to Table 2 in the dertaken with resp		document for details of stakeholder consultation oposal.

