

# Form

## Referral of a proposal under s. 38 of the EP Act

PART A: PROPONENT AND REFERRER INFORMATION AND PROPOSAL DESCRIPTION	
<b>Referrer information</b>	
Who is referring this proposal?	<input checked="" type="checkbox"/> Proponent <input type="checkbox"/> Decision-making authority <input type="checkbox"/> Community member/third party
Name of the referrer <i>Name of the person or organisation referring</i>	Mardie Minerals Pty Ltd
Contact details (for the EPA's assessment of this proposal) <i>Name, organisation, position, email, phone and address</i>	Angela Glover – Head of Corporate Affairs BCI Minerals Pty Ltd <a href="mailto:angela.glover@bciminerals.com.au">angela.glover@bciminerals.com.au</a> +61 8 6311 3400 Level 1, 1 Altona Street West Perth WA 6005
Does the referrer request that the EPA treat any part of the proposal information in the referral as confidential? <i>Provide confidential information in a separate attachment.</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Declaration</b> I, <u>Angela Glover</u> declare that I am authorised to refer this proposal on behalf of Mardie Minerals Pty Ltd and further declare that the information contained in this form is true and not misleading.	
<b>Proponent information</b>	
Name of the proponent/s <i>Include Trading Name if relevant</i>	Mardie Minerals Pty Ltd
Australian Company Number(s) <input checked="" type="checkbox"/> Australian Business Number(s) <input type="checkbox"/>	ACN: 152574457 ABN:
<b>Pre-referral discussions</b>	
Have you had pre-referral discussions with the EPA (including the EPA Services of DWER)? <i>If so, provide name, date, and overview of discussions.</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Discussed in several regular meetings with Liesl Rohl during 2021
<b>Proposal information</b>	
Proposal name	Optimised Mardie Project
What is the proposal? (Include general description in the <a href="#">Instructions and template: How to identify the content of a proposal</a> )	Mardie Minerals Pty Ltd has approval to develop a greenfields high quality salt and SoP project and associated export facility at

	<p>Mardie, approximately 80 km south-west of Karratha, in the Pilbara region of WA. The project will produce a high purity salt product, SoP and other products that can be derived from sea water.</p> <p>The Proposal includes the expansion of the approved Mardie Project (MS 1175) including expanded concentrator and crystalliser ponds, an increased salt and SoP production rate, new secondary seawater intake option, a port facility laydown area, a quarry, and minor changes to the dredge channel.</p>
<p><b>Have you provided electronic spatial data, maps, and figures in the appropriate format?</b></p>	<p><input checked="" type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>
<p><b>What type of proposal is being referred?</b></p> <p><i>For significant amendment or derived proposal, provide the associated existing Ministerial statement number/s</i></p> <p><i>For a proposal under an assessed planning scheme, provide the scheme number and name</i></p>	<p><input checked="" type="checkbox"/> significant proposal. <i>Choose which type of significant proposal</i></p> <p><input type="checkbox"/> new proposal</p> <p><input type="checkbox"/> significant amendment (proposal only)</p> <p><input type="checkbox"/> significant amendment (conditions only)</p> <p><input checked="" type="checkbox"/> significant amendment (proposal and conditions)</p> <p><input type="checkbox"/> strategic proposal</p> <p><input type="checkbox"/> derived proposal</p> <p><input type="checkbox"/> proposals of a prescribed class</p> <p><input type="checkbox"/> proposal under an assessed planning scheme</p>
<p><b>Proposal content:</b> Complete the corresponding template (Proposal Content Document) from the <a href="#">Instructions and template: How to identify the content of a proposal</a> for the type of proposal identified above. The completed form <b>must be</b> submitted with the referral.</p>	
<p><b>Alternatives</b></p>	<p>Refer to Supplementary Report</p>

## PART B: ASSESSMENT OF ENVIRONMENTAL IMPACTS

### Environmental factors

What are the likely significant environmental factors for this proposal?

- Benthic Communities and Habitat
- Coastal Processes
- Marine Environmental Quality
- Marine Fauna
- Flora and Vegetation
- Landforms
- Subterranean Fauna
- Terrestrial Environmental Quality
- Terrestrial Fauna
- Inland Waters
- Air Quality
- Greenhouse Gas Emissions

		<input checked="" type="checkbox"/> Social Surroundings <input type="checkbox"/> Human Health
<p><i>For each of the environmental factors identified above, complete the following table, or provide the information in a supplementary report</i></p>		
<b>Potential environmental impacts – for each environmental factor</b>		
1	<b>EPA policy and guidance</b>	<i>Refer to Supplementary Report</i>
2	<b>Receiving environment</b>	
3	<b>Likely environmental impacts</b>	
4	<b>Application of the mitigation hierarchy</b>	
5	<b>Assessment and significance of residual impacts</b>	
6	<b>Likely environmental outcomes</b>	
<b>Holistic impact assessment</b>		
<p>Outline the holistic impact assessment for the Proposal.</p> <p><i>Refer to Supplementary Report</i></p>		
<b>Cumulative environmental impact assessment</b>		
<p>Outline the relevant cumulative environmental impacts of the Proposal (based on scoping).</p> <p><i>Refer to Supplementary Report</i></p>		
<b>Consultation</b>		
<p>Outline the outcomes of consultation on the Proposal and its likely environmental effects.</p> <p><i>Refer to Supplementary Report</i></p>		
<b>Supporting documents</b>		
<p>Provide a list of the supporting documents</p> <p>Optimised Mardie Project Supplementary Report, including the following appendices:</p> <p><b>Appendix 2:</b> Hydrology Reports:</p> <ul style="list-style-type: none"> <li>2.1 RPS (2019a). Coastal Inundation Studies;</li> <li>2.2 Advisian (2021a). Mardie Salt Flood Study - Phases 1-3;</li> <li>2.3 Advisian (2021b). Site Wide Flood Impact Assessment Summary. Memorandum;</li> <li>2.4 AQ2 (2021a). Mardie Project – Groundwater Risk Assessment – Optimised Project. Memorandum; and</li> <li>2.5 AQ2 (2021b). Mardie Project – Proposed Investigation and Monitoring Program.</li> </ul> <p><b>Appendix 3.1:</b> BCI (2022). Optimised Proposal Groundwater Monitoring and Management Plan.</p> <p><b>Appendix 4.1:</b> BCI (2021). Mine Closure Plan (Original Proposal).</p> <p><b>Appendix 5:</b> Benthic Communities Habitat Survey Reports:</p> <ul style="list-style-type: none"> <li>5.1 Stantec (2018). Assessment Of Mangal And Algal Communities for the Mardie Solar Salt Project;</li> <li>5.2 O2 Marine (2020a). Mardie Project Intertidal Benthic Communities and Habitat. Prepared for Mardie Minerals Pty Ltd;</li> </ul>		

- 5.3 O2 Marine (2020b). Mardie Project Subtidal Benthic Communities and Habitat. Prepared for Mardie Minerals Pty Ltd;
- 5.4 O2 Marine (2020c). Mardie Project Benthic Communities & Habitat Cumulative Loss Assessment. Prepared for Mardie Minerals Pty Ltd;
- 5.5 O2 Marine (2020d). Mardie Project Expert Advice on the Significance of the BCH Impacted by the Proposal from a local and regional Perspective. Prepared for Mardie Minerals Pty Ltd; and
- 5.6 O2 Marine (2020e). Mardie Project: Introduced Marine Pest Risk Assessment. Prepared for Mardie Minerals Pty Ltd.

**Appendix 6:** Flora and Vegetation Survey Reports:

- 6.1 Phoenix (2021a) Detailed flora and vegetation survey for the Mardie Salt Project Optimisation and Quarry Area. Prepared for BCI Minerals Ltd;
- 6.2 Phoenix (2021c) Report of targeted searches at Mardie Salt Project for *Minuria tridens*. Memorandum;
- 6.3 Phoenix (2020a) Detailed flora and vegetation survey for the Mardie Salt Project; and
- 6.4 Phoenix (2021d) Targeted regional *Tecticornia* survey.

**Appendix 7:** Terrestrial Fauna Survey Reports:

- 7.1 Phoenix (2021b) Basic (Level 1) terrestrial fauna survey for the Mardie Salt Project Optimisation Area and Quarry Area. Prepared for BCI Minerals Ltd; and
- 7.2 Phoenix (2020b) Level 2 targeted terrestrial fauna survey for the Mardie Salt Project. Report prepared for Mardie Minerals Pty Ltd.

**Appendix 8:** Marine Modelling Reports:

- 8.1 Baird (2021). Bitterns Outfall Modelling Report; and
- 8.2 Baird (2022). Dredge Dispersion Modelling Report.

**Appendix 9:** Marine Fauna Survey Reports:

- 9.1 O2 Marine (2020f). Mardie Project: Marine Fauna Review; and
- 9.2 Pendoley Environmental (2019). Mardie Salt Project: Marine Turtle Monitoring Program 2018/19. Report Prepared for Mardie Minerals Pty Ltd.

**Appendix 10.1:** Preston Consulting (2021b). Draft Optimised Proposal Offset Strategy. Prepared for Mardie Minerals Pty Ltd.

**Appendix 11.1:** Review of proposed Change to MS 1175 Conditions.

**Appendix 12.1:** Application of Policy and Guidance.

Has the referrer provided survey information according to the <a href="#">Instructions and Form: IBSA Data Packages</a> and/or the <a href="#">Instructions and form: IMSA Data Packages</a>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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**Conclusion**

Do you consider the proposal may have a significant effect on the environment?

Yes

**PART B: ASSESSMENT OF ENVIRONMENTAL IMPACTS FOR SIGNIFICANT AMENDMENTS ONLY**

<b>Type of significant amendment</b>	<input type="checkbox"/> significant amendment to the approved proposal <input type="checkbox"/> significant amendment to the implementation conditions <input checked="" type="checkbox"/> significant amendment to both the proposal and the implementation conditions
<b>Information of the approved proposal</b>	Mardie Salt Project (MS 1175)
<b>Combined effects of the approved proposal and significant amendment</b>	Refer to Supplementary Report
<b>Analysis of existing implementation conditions</b>	Appendix 11.1 of Supplementary Report
<b>Previous changes to the Proposal and or implementation conditions</b>	None
<b>Compliance</b>	Project not yet commenced
<b>Environmental Performance</b>	Project not yet commenced
<b>Control of implementation of significant amendment</b>	Appendix 12.1 of Supplementary Report

#### **PART B: ASSESSMENT OF ENVIRONMENTAL IMPACTS FOR A PROPOSAL UNDER AN ASSESSED SCHEME ONLY**

What new environmental issues are raised by the proposal that were not assessed during the assessment of the planning scheme?	
How does the proposal not comply with the assessed scheme and/or the environmental conditions in the assessed planning scheme?	

#### **PART B: ASSESSMENT OF ENVIRONMENTAL IMPACTS FOR DERIVED PROPOSALS ONLY**

Demonstrate how the proposal will meet the environmental outcomes defined through the assessment of the strategic proposal	
Provide an analysis of the existing implementation conditions of the related strategic proposal in relation to the derived proposal	

## PART C: OTHER APPROVALS AND REGULATION

### Decision-making authorities and their approvals

Provide a table list of the decision-making authorities, associated legislation or agreement regulating the activity and the specific approval required. (Example table at the end of form)	Section 1.5 of Supplementary Report
Provide a summary of the statutory decision-making processes you consider can mitigate the potential impacts of the proposal on the environment. (Note: this should be a summary of the information provided in Part B section 2.4).	Section 1.5 and mitigation section within each key environmental factor section of Supplementary Report

### Tenure and Local Government approvals

Location of proposal: a) street address, lot number, suburb, and nearest road intersection; or b) if remote, the nearest town and distance and direction from that town to the proposal site.	Mardie Station, off North West Coastal Highway
Name of the Local Government Authority in which the proposal is located.	City of Karratha
Is rezoning of any land required before the proposal can be implemented? If yes, please provide details.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
What is the current land use on the property, and the extent (area in hectares) of the property?	UCL and Pastoral uses
Does the proponent have the legal access required for the implementation of all aspects of the proposal? <i>If yes, provide details of legal access authorisations / agreements / tenure.</i> <i>If no, what authorisations / agreements / tenure is required and from whom?</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Appropriate tenure to be sought under the <i>Mining Act 1978</i>

### Commonwealth Government approvals

Does the proposal involve an action that may be or is a controlled action under the <i>Environment Protection and Biodiversity Conservation Act 1999</i> (EPBC Act)?	<input checked="" type="checkbox"/> Yes <span style="float: right;"><input type="checkbox"/> No</span>
Has the proposed action been referred? If yes, when was it referred and what is the reference number (EPBC No.)?	<input type="checkbox"/> Yes <span style="float: right;"><input checked="" type="checkbox"/> No</span> Date: _____ EPBC No.: _____
If referred, has a decision been made on whether the proposed action is a controlled action? If 'yes',	<input type="checkbox"/> Yes <span style="float: right;"><input checked="" type="checkbox"/> No</span> <input type="checkbox"/> Decision – controlled action

check the appropriate box and provide the decision in an attachment.	<input type="checkbox"/> Decision – not a controlled action
If the proposal is determined to be a controlled action, do you request that this proposal be assessed under a Bilateral Agreement or as an accredited assessment?	<input type="checkbox"/> Yes - Bilateral <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes - Accredited
Is approval required from other Commonwealth Government/s for any part of the proposal? <i>If yes, describe.</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Approval:
<b>Decision-making authority referrals <u>ONLY</u></b>	
What approval/s, under your authority, are required for this proposal? <i>Please provide details.</i>	

**Example Table:** Other approvals

Decision-making authority	Legislation or Agreement regulating the activity	Approval required (and specify which proposal element the approval is related to)	Whether and how statutory decision-making process can mitigate impacts on the environment? (Yes/No and summary of reasons. Include a separate line item for each relevant impact, and discuss how the EPA's factor objective will be met)