



Application for Works Approval

Part V Division 3 of the *Environmental Protection Act 1986*

Works Approval Number	W6369/2020/1
Applicant	Mt Weld Mining Pty Limited
ACN	053 160 400
File Number	DER2020/000102
Premises	Mt Weld Rare Earths Project Elora Road Mining Tenement M38/58 LAVERTON WA 6440 As defined by the Premises maps attached to the issued works approval
Date of Report	29 October 2020
Decision	Works approval granted

Carmen Standing

**A/MANAGER, RESOURCE INDUSTRIES
REGULATORY SERVICES**

an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

Table of Contents

1. Decision summary	1
2. Scope of assessment	1
2.1 Regulatory framework	1
2.2 Application summary and overview of Premises	1
2.3 Part IV of the EP Act	2
2.4 Radiation management	2
3. Risk assessment	3
3.1 Source-pathways and receptors	3
3.1.1 Emissions and controls	3
3.1.2 Receptors	5
3.2 Risk ratings	7
4. Consultation	10
5. Conclusion	11
References	11
Appendix 1: Summary of applicant’s comments on risk assessment and draft conditions	12
Appendix 2: Application validation summary	13
Appendix 3: Indicative location for installation of proposed indirect fired rotary dryer at the premises	16
Table 1: Proposed applicant controls	3
Table 2: Sensitive human and environmental receptors and distance from prescribed activity	5
Table 3: Risk assessment of potential emissions and discharges from the Premises during construction, commissioning and operation	8
Table 4: Consultation	10

1. Decision summary

This Decision Report documents the assessment of potential risks to the environment and public health from emissions and discharges during the construction and operation of the proposed rotary dryer at the Premises to reduce the moisture content within the rare earth concentrate. As a result of this assessment, Works Approval W6369/2020/1 has been granted.

2. Scope of assessment

2.1 Regulatory framework

In completing the assessment documented in this Decision Report, the department has considered and given due regard to its Regulatory Framework and relevant policy documents which are available at <https://dwer.wa.gov.au/regulatory-documents>.

2.2 Application summary and overview of Premises

On 21 February 2020, Mt Weld Mining Pty Limited (the applicant) submitted an application for a works approval to the department under section 54 of the *Environmental Protection Act 1986* (EP Act).

The applicant has been producing rare earth concentrate at Mt Weld Rare Earths Project (the premises) since May 2011. Concentrate is produced via pressure filters and this is subsequently bagged into 2.8 tonne bulk bags by a bagging facility. The bagged concentrate is loaded into 20-foot sea containers which are transported from site to Fremantle and then shipped to Kuantan, Malaysia for downstream processing at Lynas' LAMP facility. The premises is located approximately 35 km south-east of Laverton.

The primary objective of this proposal is to reduce entrained moisture within transported concentrate produced at the premises to as low as reasonably possible. Historical moisture content of bagged concentrate has typically ranged between 13% and 19%. Ideally the target for moisture levels in transported concentrate should be in the order of 10% to maximise transport efficiency and materials handling for downstream processing.

The application is to undertake construction works relating to construction and commissioning of a rotary dryer at the premises to reduce the moisture content within the rare earth concentrate produced at the premises. The proposed indirect fired rotary dryer will be located within the existing prescribed premises footprint. No additional clearing of vegetation is proposed. See Appendix 3 for proposed location of the dryer. A concrete hardstand area graded into a collection sump to contain stormwater will be constructed to install the proposed dryer.

The premises undertakes category 5 activities that have been assessed at a design capacity of 443,000 tonnes per year under Schedule 1 of the *Environmental Protection Regulations 1987* (EP Regulations) which are defined in licence L8141/2007/2. The infrastructure and equipment relating to the proposed rotary dryer which the department has considered in line with *Guidance Statement: Risk Assessments* (DER 2017) are outlined in Works Approval W6369/2020/1. No changes to premises design capacity or throughput will occur as a result of this proposal.

The Applicant has proposed a commissioning period of 120 calendar days following installation of the proposed dryer which will be undertaken to optimise operating parameters such as concentrate feed rate and burner fuel consumption. The dryer will operate continuously. Concentrate product from the dryer will be bagged and containerised for transport.

2.3 Part IV of the EP Act

The rare earths mining and beneficiation at Mt Weld, Laverton has been assessed under Part IV of the EP Act and is subject to conditions of Ministerial Statement 476 (as amended). This proposal has not been referred to the Environmental Protection Authority as it is not considered a significant proposal.

2.4 Radiation management

In Western Australia the primary legislation relating to radiation management is the *Radiation Safety Act 1975* and subsidiary legislation. In general, mining operations are mandated to comply with the Australian Radiation Protection and Nuclear Safety Agency (ARPANSA), Code of Practice & Safety Guide for Radiation Protection and Radioactive Waste Management in Mining and Mineral Processing – Radiation Protection Series No. 9 (the Code).

Within the Code it is stated that the International Atomic Energy Agency (IAEA, RS-G-1.7) sets exclusion levels for naturally occurring radioactivity in bulk materials at 1 Becquerel per gram (Bq/g) head-of-chain activity for the uranium and thorium decay chain radionuclides. Transport of radioactive material in Western Australia is legislated by the *Radiation Safety (Transport of Radioactive Substances) Regulations 2002*, made under the *Radiation Safety Act 1975*.

The Applicant has advised that in assessing the significance of thorium emissions from the dryer, the NORM-6 Guideline (DMIRS Resources Safety, 2010) was adopted which recommends an operational control limit of 150g/day thorium (Th-232) for stack emissions.

Air emissions sampling and analysis, using a NATA accredited laboratory, was undertaken by the applicant to estimate potential emissions of radionuclides from the combustion stack and the main dryer stack (pilot plant). Based on the results, a conservative estimate of total thorium emissions (from main stack and combustion stack of proposed dryer) at proposed flow rates was undertaken by the Applicant. Data provided by the Applicant was reviewed by DMIRS. DMIRS have estimated that potential emissions of Th-232 will be 0.165 grams of Th-232 (combined figure from both stacks), 0.145 g/day from main stack and 0.020 g/day from combustion stack. The Applicant concurs with this assessment. These emissions are well within the NORM-6 Guideline.

The Applicant has also noted that the occupational dose from the dryer exhaust is only 1.2 mSv/yr based on the analysis results, relative to the radiation worker limit (20 mSv/year) as prescribed by the *Radiation Safety (General) Regulations 1983* under the *Radiation Safety Act 1975*. The Applicant has advised that personal hygiene monitoring will be conducted as per a DMIRS approved Health and Hygiene Management Plan and Radiation Management Plan.

The Applicant is currently authorised to transport rare earth concentrate produced at the premises. The Applicant has undertaken dryer stack air emissions testing on a pilot plant and provided analytical results for potential radionuclide concentrations likely to be emitted from the proposed dryer main stack and combustion stack. Advice was sought from DMIRS regarding acceptability of data presented and interpretation of potential environmental and public health risks. See Table 4 in this report for further details.

Based on the above regulatory context, the issue of potential public health impacts associated with transport of rare earth concentrate from the premises has not been considered further in this assessment.

3. Risk assessment

The department assesses the risks of emissions from prescribed premises and identifies the potential source, pathway and impact to receptors in accordance with the *Guidance Statement: Risk Assessments* (DER 2017).

To establish a Risk Event there must be an emission, a receptor which may be exposed to that emission through an identified actual or likely pathway, and a potential adverse effect to the receptor from exposure to that emission.

3.1 Source-pathways and receptors

3.1.1 Emissions and controls

The key emissions and associated actual or likely pathway during premises construction, commissioning and operation which have been considered in this Decision Report are detailed in Table 1 below. Table 1 also details the proposed control measures the applicant has proposed to assist in controlling these emissions, where necessary.

Table 1: Proposed applicant controls

Emission	Sources	Potential pathways	Proposed controls
Construction			
Dust	Crushing of material, vehicle movements, lift-off from stockpiles and/or stored product, earthworks etc.	Air/windborne pathway	No specific controls proposed. Construction timeframe will be short. No major earthworks required for installation of the proposed dryer.
Noise	Crushing and screening of material	Air/windborne pathway	No specific controls proposed. Construction timeframe will be short. No sensitive receptors in proximity of the premises.
Commissioning and Operation			
Combustion emissions from diesel fuel (SO _x , NO _x , CO and Particulates)	Dryer exhaust stack	Air dispersion	Air emissions testing (main stack and combustion stack) using a NATA accredited laboratory, was undertaken which confirmed that emissions will remain within the stack emission limits specified in <i>New South Wales Protection of the Environment Operations (Clean Air) Regulation 2010</i> . A commissioning monitoring program will be implemented for stack sampling.
Organic fatty acid decomposition products	Dryer exhaust stack	Air dispersion	A commissioning monitoring program will be implemented for stack sampling.
Particulates (potentially containing radionuclides)	Dryer exhaust stack (dust emissions originating from within the dryer)	Air dispersion	Air emissions testing (main stack and combustion stack) using a NATA accredited laboratory, was undertaken which confirmed that Thorium concentration will be within the

Emission	Sources	Potential pathways	Proposed controls
	drum)		<p>DMIRS, NORM_6 Guideline 2010.</p> <p>A commissioning monitoring program will also be implemented.</p> <p>Ground level exposure sampling monitoring for inhalable and respirable dust will be continued. Personal hygiene monitoring as per DMIRS approved 2019 Health and Hygiene Management Plan and 2017 Radiation Management Plan will be expanded to include additional samples for personnel working in Final Product Handling or Transport Operations.</p> <p>If dust monitoring indicates exceedance of occupational exposure limits then following measures will be undertaken:</p> <ul style="list-style-type: none"> • Reduction of design concentrate feed from 30t/hr to a lower feed rate until exposure is under guidance limit; • Increasing target concentrate moisture limit from 10% to increase moisture content which is under dust exposure levels; • Provision of personal protective equipment to workers; • Operation of the dryer is expected to prevent granulation of product and limit particulate emissions via exhaust stack; • Low gas velocities within the drier drum is expected to limit mobilisation of concentrate particulate dust via exhaust stack; • The dryer will be inspected and monitored daily during operations to ensure performance in accordance with design specifications.
Fugitive dust	Loading concentrate into dryer	Air dispersion	<p>Filter cake being fed into the dryer feed bin will have approximately 17-18% moisture and is not expected to generate fugitive dust.</p> <p>A hood will be installed on the feed bin to minimize dust generation.</p>
	Removal of built-up concentrate from dryer	Air dispersion	<p>The concentrate dryer will discharge onto a covered conveyer which will discharge into the concentrate shed (a semi-enclosed area) to minimize dust generation.</p> <p>Transfer chute from the dryer to discharge conveyer will be sealed.</p> <p>The commissioning phase will focus on optimizing the dryer operational characteristics</p>

Emission	Sources	Potential pathways	Proposed controls
			to maximise granulation of the concentrate and limit the amount of dust generated.
Fugitive dust	Rare earth concentrate transfer points	Air dispersion	Enclosed transfer points to minimize fugitive dust. Provision of spill containment for drier footprint. Maintaining housekeeping to minimize dust build up within the drier handling area.
Spills/ leaks of fuel (diesel) causing stormwater contamination	Diesel storage tanks	Direct discharge to land	Fuel storage will be undertaken in accordance with <i>Australian Standard As1940-2004: The storage and handling of flammable and combustible liquids</i> .
Spills of rare earth concentrate causing stormwater contamination	Rare earth concentrate transfer points	Direct discharge to land	Provision of spill containment for drier footprint. Maintaining housekeeping to minimize dust build up within the drier handling area. Existing surface water drainage channels to convey potentially contaminated runoff to the runoff pond for evaporation.

3.1.2 Receptors

In accordance with the *Guidance Statement: Risk Assessment* (DER 2017), the Delegated Officer has excluded employees, visitors and contractors of the applicant's from its assessment. Protection of these parties often involves different exposure risks and prevention strategies, and is provided for under other state legislation.

Table 2 below provides a summary of potential human and environmental receptors that may be impacted as a result of activities upon or emission and discharges from the prescribed premises (*Guidance Statement: Environmental Siting* (DER 2016)). The town of Laverton is located 35km from the premises and Granny Smith mine is located 10km from the premises and is not considered a sensitive receptor for the purpose of this assessment.

Table 2: Sensitive human and environmental receptors and distance from prescribed activity

Human receptors	Distance from prescribed activity
Mt Weld Pastoral Station	Premises is located within the Mt Weld pastoral station area
Environmental receptors	Distance from prescribed activity
Lake Carey	13km west of the premises.
Windich Brook	8km west of the premises
Priority 3 Flora: <i>Goodenia lyrate</i>	Not presently identified and/or recorded within the premises boundary. One single specimen was recorded within the project area

	<p>previously. Applicant has advised that targeted searches for this species were subsequently undertaken in 2017 and did not identify or record any occurrence (including dried and/or dead individuals).</p>
<p>The Applicant has noted that following three conservation significant fauna are considered to <i>possibly occur</i> within the area even though no species of conservation significance were confirmed in previous surveys conducted by the Applicant:</p> <ul style="list-style-type: none"> • Long-tailed Dunnart (Sminthopsis longicaudata, P4); • Malleefowl (Leipoa ocellate) • and Peregrine Falcon (Falco peregrinus). 	<p>Not presently identified and/or recorded within the premises boundary.</p> <p>DWER geographic information system records show that Malleefowl and Dunnart species have been recorded greater than 5km from the premises boundary.</p>

3.2 Risk ratings

Risk ratings have been assessed in accordance with the *Guidance Statement: Risk Assessments* (DER 2017) for each identified emission source and takes into account potential source-pathway and receptor linkages as identified in Section 3.1. Where linkages are in-complete they have not been considered further in the risk assessment.

Where the applicant has proposed mitigation measures/controls (as detailed in Section 3.1), these have been considered when determining the final risk rating. Where the Delegated Officer considers the applicant's proposed controls to be critical to maintaining an acceptable level of risk, these will be incorporated into the works approval as regulatory controls.

Additional regulatory controls may be imposed where the applicant's controls are not deemed sufficient. Where this is the case the need for additional controls will be documented and justified in Table 3.

Works Approval W6369/2020/1 that accompanies this Decision Report authorises construction, commissioning and time-limited operations. The conditions in the issued Works Approval, as outlined in Table 3 have been determined in accordance with *Guidance Statement: Setting Conditions* (DER 2015).

A licence amendment is required following the time-limited operational phase authorised under the works approval to authorise emissions associated with the ongoing operation of the proposed indirect fired rotary dryer at the premises. A risk assessment for the operational phase has been included in this Decision Report, however licence conditions will not be finalised until the department assesses the licence application.

Table 3: Risk assessment of potential emissions and discharges from the Premises during construction, commissioning and operation

Risk Event					Risk rating ¹ C = consequence L = likelihood	Applicant controls sufficient?	Conditions ² of works approval	Justification for additional regulatory controls
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Applicant controls				
Construction								
Installation of the indirect fired rotary dryer at the premises	Dust	Air/windborne pathway causing impacts to amenity	Granny Smith mine approximately 10km from the premises	Refer to Section 3.1	The Delegated Officer has determined that distance from receptors is sufficient to mitigate any potential amenity impacts during construction. No further risk assessment or regulatory controls required.	Yes	Commissioning: Conditions 6,7,8,9,10,11 Time limited operations: Conditions 12-16	Air emissions monitoring on the combustion stack for the pilot plant has demonstrated that contaminants will remain within the stack emission limits specified in New South Wales <i>Protection of the Environment Operations (Clean Air) Regulation 2010</i> . Given the distance from receptors, ambient NEPM standards are expected to be met. Advice from DMIRS has confirmed that concentrations of radioactive elements will not pose a risk to receptors. Verification monitoring during
	Noise			Refer to Section 3.1				
Commissioning and operation								
Commissioning of the indirect fired rotary dryer: Combustion of diesel	Combustion emissions to air (NOx, SO2, CO and Particulates)	Air/windborne pathway causing impacts to health and amenity	Granny Smith mine approximately 10km from the premises	Refer to Section 3.1	C= Minor L= Rare Low Risk	Yes	Commissioning: Conditions 6,7,8,9,10,11 Time limited operations: Conditions 12-16	Air emissions monitoring on the combustion stack for the pilot plant has demonstrated that contaminants will remain within the stack emission limits specified in New South Wales <i>Protection of the Environment Operations (Clean Air) Regulation 2010</i> . Given the distance from receptors, ambient NEPM standards are expected to be met. Advice from DMIRS has confirmed that concentrations of radioactive elements will not pose a risk to receptors. Verification monitoring during
Commissioning of the indirect fired rotary dryer: Main stack	Organic fatty acid decomposition products/ VOCs	Air/windborne pathway causing impacts to public health	Granny Smith mine approximately 10km from the premises	Refer to Section 3.1	C= Minor L= Rare Low Risk	Yes	Commissioning: Conditions 6,7,8,9,10,11 Time limited operations: Conditions 12-16	Air emissions monitoring on the combustion stack for the pilot plant has demonstrated that contaminants will remain within the stack emission limits specified in New South Wales <i>Protection of the Environment Operations (Clean Air) Regulation 2010</i> . Given the distance from receptors, ambient NEPM standards are expected to be met. Advice from DMIRS has confirmed that concentrations of radioactive elements will not pose a risk to receptors. Verification monitoring during
	Particulates (potentially containing radionuclides)							

Risk Event					Risk rating ¹ C = consequence L = likelihood	Applicant controls sufficient?	Conditions ² of works approval	Justification for additional regulatory controls
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Applicant controls				
								commissioning is required to demonstrate that design specifications are met.
Fugitive dust: Loading/ Unloading of materials	Particulates	Air/windborne pathway causing impacts to public health	Granny Smith mine approximately 10km from the premises	Refer to Section 3.1	C= Minor L= Rare Low Risk	Yes	Commissioning: Conditions 4,5 Time limited operations: Conditions 14	--
Spills of rare earth concentrate	Suspended solids	Direct discharge to land resulting in stormwater contamination	Soils in the local area					
Diesel storage: Spills/ leaks	Hydrocarbon emissions	Direct discharge to land resulting in stormwater contamination	Soils in the local area, potentially leaching to groundwater	Refer to Section 3.1	C= Minor L= Unlikely Moderate Risk	Yes	Commissioning: Condition 5 Time limited operations: Condition 14	--

Note 1: Consequence ratings, likelihood ratings and risk descriptions are detailed in the *Guidance Statement: Risk Assessments* (DER 2017).

Note 2: Proposed applicant controls are depicted by standard text. **Bold and underline text** depicts additional regulatory controls imposed by department.

4. Consultation

Table 4 provides a summary of the consultation undertaken by the department.

Table 4: Consultation

Consultation method	Comments received	Department response
Application advertised on the department's website (23/03/2020)	None received.	N/A
Local Government Authority advised of proposal (21/8/2020)	None received.	N/A
Department of Mines, Industry Regulation and Safety (DMIRS) advised of proposal (25/8/2020)	<p>DMIRS replied on 17 September advising that:</p> <ul style="list-style-type: none"> The dryer stacks (main stack and combustion stack together) are estimated to emit 0.165 grams of Th-232 per day which is approximately 1000 times lower than DMIRS publication NORM-6 operational limit of 150grams of Th-232. Based on analytical report provided, Thorium-232 represents negligible concern to human or non-human receptors; The radium isotopes do not present a radiological hazard from the modelled stack emissions. However the radium will tend to accumulate on the inner surfaces of pipes, vessels and stacks downstream from the dryer. Lead-210 isotope may exceed the activity operational limit (1.1% of the daily activity operational limit) however this level presents little or no concern to receptors. Radium, lead and polonium isotopes in the ore will contaminate steel work and may require controls to prevent entering the community when scrapped or recycled. 	<p>The Delegated Officer notes that Th-232 emissions and Pb-210 emissions are not expected to present a risk to environment and human receptors outside the premises boundary. Stack monitoring conditions will be specified during commissioning and time limited operations to verify emissions data provided by the applicant.</p> <p>Regulating disposal of waste outside the premises boundary is not within the scope of the EP Act Part V instrument conditions specified on licences and/or works approvals.</p> <p>The Licence Holder is required to comply with controlled waste regulations and general provisions of the EP Act.</p>
Applicant was provided with draft documents on 23 September 2020	Refer to Appendix 1.	Refer to Appendix 1.

5. Conclusion

Based on the assessment in this Decision Report, the Delegated Officer has determined that a works approval will be granted, subject to conditions commensurate with the determined controls and necessary for administration and reporting requirements.

References

1. Department of Environment Regulation (DER) 2016, *Guidance Statement: Environmental Siting*, Perth, Western Australia.
2. DER 2017, *Guidance Statement: Risk Assessments*, Perth, Western Australia.
3. DER 2015, *Guidance Statement: Setting Conditions*, Perth, Western Australia.
4. Department of Mines and Petroleum (WA), Resources Safety 2010, *Guideline: Managing naturally occurring radioactive material (NORM) in mining and mineral processing* NORM- 6.
5. Works Approval Application Supporting Document: Proposed Concentrate Dryer Mt Weld Mining Pty Limited, Report Number 2019-064, authored by KASA Consulting, dated 20 February 2020.
6. Correspondence dated 18 August 2020 from Lynas Corporation Ltd, providing response to further information requested by DWER on 17 March 2020, including following attachments:
 - Attachment 1: Summary of dryer stack emission test results;
 - Attachment 2: Thermal decomposition products of fatty acid collector
 - Attachment 3: Dryer stack testing report authored by Emission Assessments Pty Ltd and dated 11 August 2020.
7. Correspondence dated 17 September 2020 from DMIRS authored by Mr. Martin Ralph, Mines Safety Directorate

Appendix 1: Summary of applicant's comments on risk assessment and draft conditions

Condition	Summary of applicant's comment	Department's response
Condition 1	<p>The Applicant has requested that the requirement for the conveyors feeding the dryer to be enclosed be removed on the basis that:</p> <ul style="list-style-type: none"> concentrate feed to the dryer will be in the range of 16-18% moisture which is above the dusting limit of 12-13%; there is adequate separation distance from receptors resulting in minor environmental risk; and other sections of conveyors transporting dried concentrate will be enclosed. 	<p>The Delegated Officer has considered the grounds provided by the Applicant and determined the potential for dust to be generated by conveyors feeding the dryer is unlikely, and the risk to receptors therefore negligible.</p> <p>The requirement to enclose the conveyor feeding the dryer has therefore been removed.</p> <p>Condition 1 has been updated.</p>
Condition 5	<p>The Applicant has requested that authorised commissioning period duration be extended from 90 calendar days to 120 calendar days.</p>	<p>The Delegated Officer has approved the request. Condition 5 Table 2 has been updated.</p> <p>Decision Report text has been updated accordingly.</p>
Condition 6	<p>The Applicant has suggested that dryer stack (main stack and combustion stack) emissions monitoring during commissioning should not be required given the distance from sensitive receptors.</p>	<p>The Delegated Officer has considered the request and determined that the Applicant needs to undertake verification monitoring during commissioning to demonstrate that proposed dryer is achieving the stack emission concentrations similar to the emission profile of the pilot plant which was considered in the risk assessment of this works approval application.</p> <p>On this basis, the Delegated Officer considers that emissions verification monitoring must be completed prior to commencing time limited operations as authorised under the works approval. Condition 6 remains unchanged.</p>
Condition 15	<p>The Applicant has suggested that dryer stack (main stack and combustion stack) emissions monitoring during time limited operations should not be required given the distance from sensitive receptors.</p>	<p>The Delegated Officer has also reviewed the stack air emissions risk assessment based on technical advice received from DMIRS. (See Table 4). On this basis the risk rating has been revised to 'minor'.</p> <p>Accordingly, the Delegated Officer has reviewed and removed the dryer stack air emissions monitoring requirement during time limited operations.</p>

Appendix 2: Application validation summary

SECTION 1: APPLICATION SUMMARY (as updated from validation checklist)				
Application type				
Works approval	<input checked="" type="checkbox"/>			
Licence	<input type="checkbox"/>	Relevant works approval number:		None <input type="checkbox"/>
		Has the works approval been complied with?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
		Has time limited operations under the works approval demonstrated acceptable operations?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	
		Environmental Compliance Report / Critical Containment Infrastructure Report submitted?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
		Date Report received:		
Renewal	<input type="checkbox"/>	Current licence number:		
Amendment to works approval	<input type="checkbox"/>	Current works approval number:		
Amendment to licence	<input type="checkbox"/>	Current licence number:		
		Relevant works approval number:	N/A	<input type="checkbox"/>
Registration	<input type="checkbox"/>	Current works approval number:	None	<input type="checkbox"/>
Date application received	21 February 2020			
Applicant and Premises details				
Applicant name/s (full legal name/s)	Mt Weld Mining Pty Limited			
Premises name	Mt Weld Rare Earths Project			
Premises location	Mining Tenement M38/58			
Local Government Authority	Shire of Laverton			
Application documents				
HPCM file reference number:	DER2020/000102			
Key application documents (additional to application form):	<ol style="list-style-type: none"> Works Approval Application Supporting Document: Proposed Concentrate Dryer Mt Weld Mining Pty Limited, Report Number 2019-064, authored by KASA Consulting, dated 20 February 2020; Correspondence dated 18 August 2020 from Lynas Corporation Ltd, providing response to further information requested by DWER on 17 March 2020, including following attachments: <ul style="list-style-type: none"> Attachment 1: Summary of dryer stack emission test results; Attachment 2: Thermal decomposition products of fatty 			

	acid collector <ul style="list-style-type: none"> Attachment 3: Dryer stack testing report authored by Emission Assessments Pty Ltd and dated 11 August 2020. 	
Scope of application/assessment		
Summary of proposed activities or changes to existing operations.	Construction and commissioning of an indirect fired rotary dryer at Mt Weld mining operations to facilitate reduction of moisture content in the rare earth concentrate produced at the premises prior to transportation offsite.	
Category number/s (activities that cause the premises to become prescribed premises)		
Table 1: Prescribed premises categories		
Prescribed premises category and description	Assessed production or design capacity	
Category 5: <i>Processing or beneficiation of metallic or non metallic ore.</i>	443,000 tonnes per year No changes to premises design/ production capacity as a result of this works approval application	
Legislative context and other approvals		
Has the applicant referred, or do they intend to refer, their proposal to the EPA under Part IV of the EP Act as a significant proposal?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Referral decision No: Managed under Part V <input type="checkbox"/> Assessed under Part IV <input type="checkbox"/>
Does the applicant hold any existing Part IV Ministerial Statements relevant to the application?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Ministerial statement No: 476 EPA Report No:
Has the proposal been referred and/or assessed under the EPBC Act?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Reference No:
Has the applicant demonstrated occupancy (proof of occupier status)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Certificate of title <input type="checkbox"/> General lease <input type="checkbox"/> Expiry: Mining lease / tenement <input type="checkbox"/> Expiry: Other evidence <input type="checkbox"/> Expiry:
Has the applicant obtained all relevant planning approvals?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	Approval: Expiry date: If N/A explain why? Mining tenement
Has the applicant applied for, or have an existing EP Act clearing permit in relation to this proposal?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	CPS No: N/A No clearing is proposed.

Has the applicant applied for, or have an existing CAWS Act clearing licence in relation to this proposal?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Application reference No: N/A Licence/permit No: N/A No clearing is proposed.
Has the applicant applied for, or have an existing RIWI Act licence or permit in relation to this proposal?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Application reference No: Licence/permit No: Licence / permit not required.
Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the EP Act)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Name: N/A Type: Has Regulatory Services (Water) been consulted? Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Regional office:
Is the Premises situated in a Public Drinking Water Source Area (PDWSA)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Name: N/A Priority: Are the proposed activities/ landuse compatible with the PDWSA (refer to WQPN 25)? Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
Is the Premises subject to any other Acts or subsidiary regulations (e.g. <i>Dangerous Goods Safety Act 2004, Environmental Protection (Controlled Waste) Regulations 2004, State Agreement Act xxxx</i>)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<i>Dangerous Goods Safety Act 2004</i>
Is the Premises within an Environmental Protection Policy (EPP) Area?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Is the Premises subject to any EPP requirements?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Is the Premises a known or suspected contaminated site under the <i>Contaminated Sites Act 2003</i> ?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Classification: N/A Date of classification: N/A

Appendix 3: Indicative location for installation of proposed indirect fired rotary dryer at the premises

