



Application for Works Approval Amendment

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

Works Approval Number	W6641/2022/1
Works Approval Holder	Iluka Rare Earths Refinery
ACN	654 487 662
File Number	INS-0002523 (APP-0033449)
Premises	Eneabba Rare Earths Refinery Part of Mining Lease M267SA ENEABBA WA 6518 As defined by the premises maps attached to the revised works approval
Date of Report	28 May 2026
Decision	Revised works approval granted

Table of Contents

1. Decision summary	1
2. Scope of assessment	1
2.1 Regulatory framework	1
2.2 Background	1
2.3 Application summary	1
2.3.1 Air emission point changes	1
3. Risk assessment	4
3.1 Source-pathways and receptors	4
3.1.1 Emissions and controls	4
3.1.2 Receptors	5
3.2 Air quality modelling	5
3.3 Risk ratings	10
4. Consultation	12
5. Conclusion	12
5.1 Summary of amendments	13
References	14
Appendix 1: Summary of works approval holder’s comments on risk assessment and draft conditions	15
Table 1: Works approval holder controls	4
Table 2: Sensitive human and environmental receptors and distance from prescribed activity	5
Table 3: EREER emission source characteristics (ETA 2026)	7
Table 4. Risk assessment of potential emissions and discharges from the premises during operation (including commissioning & time-limited operations)	11
Table 5: Consultation	12
Table 6: Summary of works approval amendments	13
Figure 1: Updated EREER emission source locations	3

1. Decision summary

Works approval W6641/2022/1 is held by Iluka Rare Earths Pty Ltd (works approval holder) for the Eneabba Rare Earths Refinery (ERER) at the Eneabba Mineral Sands Mine (the premises), located in the Shire of Carnamah, Western Australia.

This amendment report documents the assessment of potential risks to the environment and public health from proposed changes to the emissions and discharges during the construction and operation of the premises. As a result of this assessment, revised works approval W6641/2022/1 has been granted.

2. Scope of assessment

2.1 Regulatory framework

In completing the assessment documented in this amendment report, the Department of Water and Environmental Regulation (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 Background

The Eneabba Project was created to facilitate the processing of rare earth concentrate that has been historically stored within the Eneabba Monazite Pite (EMP) at the premises.

Eneabba Phase 1 (EP 1) of the Eneabba Project included the construction of a Wet Separation Plant (WSP) for the initial recovery and processing of the stored rare earth minerals from the Eneabba Monazite Pit (EMP) to produce mineral sands concentrate (MSC). Eneabba Phase 2 (EP 2) involved the construction of a concentrator processing plant which processes the MSC generated by the WSP to produce both 90% monazite product and heavy mineral concentrate (HMC). EP 1 and EP 2 were constructed under works approvals W6251/2019/1 and W6468/2020/1 respectively and are currently operated under licence L9369/2023/1.

In 2022, this works approval (W6641/2022/1) was granted for the construction, commissioning and time limited operations of the ERER. The refinery has been constructed to process the 90% monazite product from the concentrator as well as feedstock from third-party sources.

2.3 Application summary

On 28 January 2026, the works approval holder submitted an application to the department to amend works approval W6641/2022/1 under section 59 and 59B of the *Environmental Protection Act 1986* (EP Act). The amendments being sought are outlined in Section 2.3.1. This amendment is limited only to changes to Category 44 activities from the existing works approval. No changes to the existing design or throughput capacity are proposed in this amendment.

2.3.1 Air emission point changes

The works approval holder proposed to make the following changes to the current authorised ERER air emissions points to align with the finalised refinery design:

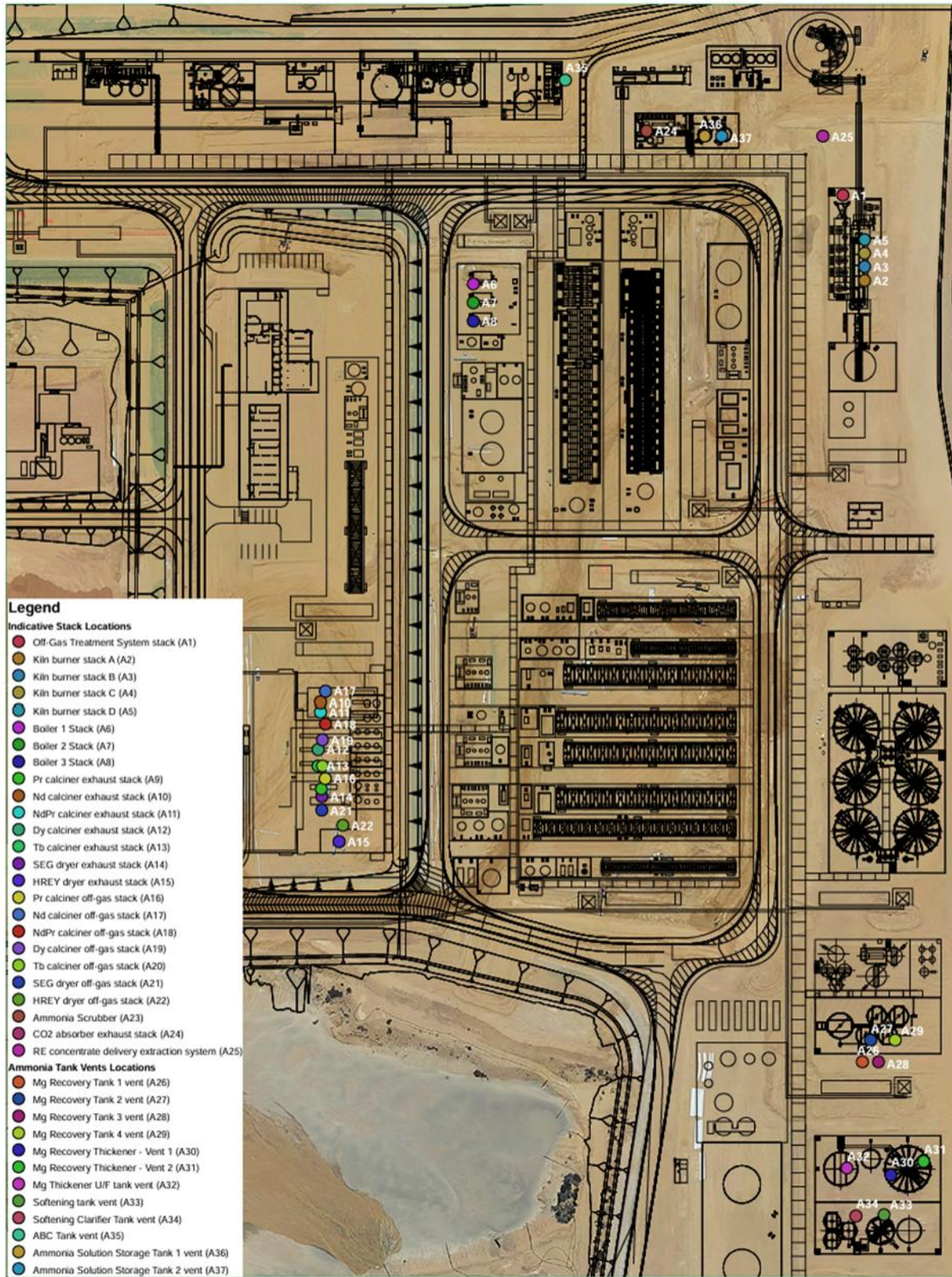
- The removal of the magnesia recovery circuit scrubber (ammonia scrubber 2) and redirect emissions from this circuit to the atmosphere via new vents.


The ammonia vapour concentrations from the magnesia recovery tank vents were found to be lower than anticipated when the works approval holder analysed refinery operating conditions. Therefore, the works approval holder has proposed to remove ammonia scrubber 2 from the refinery scope.


- Minor amendments to the coordinates of the existing stack locations to align with the final refinery equipment locations, as shown in Figure 1.
- Increase the minimum stack heights for the ammonia scrubber, kiln burner stacks A-D, calciner exhaust stacks, dryer exhaust stacks, off-gas stacks and rare earth (RE) concentrate delivery extraction system.
- Increase the maximum stack diameters for the off-gas treatment system stack, calciner exhaust stacks, dryer exhaust stacks, off-gas stacks, ammonia scrubber and RE concentrate delivery extraction system.
- Decrease the maximum stack diameters for the kiln burner stacks A-D, boiler stacks 1-3 and CO₂ absorber exhaust stack.
- Amend the emission parameters to align with the updated air emissions modelling for the kiln burner, boiler, calciner and dryer stacks and associated off-gas stacks, outlined in Section 3.2.


The works approval holder has confirmed the controls previously implemented on the works approval will remain the same, with the exception of the removal of ammonia scrubber 2.

The works approval holder has also requested that the NO_x monitoring requirements in Table 4 of the works approval for kiln burner stacks A-D are removed, noting that updated air emissions modelling (ETA, 2026) indicates NO_x is not emitted at detectable levels at those stacks.




ENEABBA RARE EARTHS REFINERY
Stack Locations


ILUKA


 GDA 1994 MGA Zone 50 Aerial Photography: Oct 2024

ORIG: B.Bjorseth DRAWN: V.D SCALE (A4): 1:1,500 DATE: 6/01/2026 DWG No: 253535v04

FIGURE: 4

Figure 1: Updated ERER emission source locations.

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 *Guideline: Risk assessments* (DWER 2020b).

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 and operation which have been considered in this amendment report are detailed in

Table 1 below.

Table 1 also details the proposed control measures the works approval holder has proposed to assist in controlling these emissions, where necessary.

Table 1: Works approval holder controls

Emission	Sources	Potential pathways	Proposed controls
Air emissions (NO ₂ , SO ₂ , SO ₃ , H ₂ SO ₄ , NH ₃ and particulates)	Operation of refinery plant infrastructure	Air/windborne pathway	<ul style="list-style-type: none"> • Design and construction requirements currently specified in the works approval: <ul style="list-style-type: none"> - Off-gas treatment stack equipped with sampling points and designed to meet emission requirements. - All stacks are to meet minimum height requirements. - All burners (kiln, calciner and dryer burners) to be fitted with low-NOx burners. - Extracted air must be captured and directed into the off-gas treatment system prior to release. - Tanks must be covered and drafted to allow steam release. - Ammonia scrubber installed to capture and treat ammonia prior to discharge into atmosphere. - Bag filters installed at off-gas stacks for capture and filtering of waste gas. - Bagging areas constructed with air extraction and venting via bag filters. - Bag filters installed at pneumatic transfer systems. - Baghouse systems must be installed with broken bag detection and alert system(s) to identify bag filter failure.

Emission	Sources	Potential pathways	Proposed controls
			<ul style="list-style-type: none"> • Commissioning requirements are included on the works approval that require monitoring of point source emissions to air to verify emissions. • The works approval specifies authorised emission points to air and includes the following requirements during time limited operations: <ul style="list-style-type: none"> - Off-gas treatment system to extract and clean air from acid mixing and roasting kiln infrastructure. - Vented air must be filtered or cleaned via scrubber or baghouse filter prior release at emission points.

3.1.2 Receptors

In accordance with the *Guideline: Risk assessments* (DWER 2020b), the delegated officer has excluded employees, visitors and contractors of the works approval holder'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 receptors that may be impacted as a result of activities upon or emission and discharges from the prescribed premises (*Guideline: Environmental siting* (DWER 2020a)).

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

Human receptors	Distance from prescribed activity
Townsite – Eneabba	Approx. 7.3 km north of the refinery footprint
Brand Highway	Approx. 4.2 km west of the refinery footprint

3.2 Air quality modelling

The works approval holder submitted revised air quality modelling (ETA 2026) for the changes to air emissions outlined in Section 2.3.1. Emission sources considered in the modelling are provided in Table 3. The modelling was reviewed to determine if expectations outlined in the *Air Quality Modelling Guidance Notes* (DoE 2006) were met. The technical review identified some limitations of the modelling, however, determined they were unlikely to change the assessments' outcomes.

The previous modelling predicted ground level concentrations (GLC) for modelled pollutants (excluding ammonia) to be below 10% of the assessment criteria. The updated modelling predicts that GLC at sensitive receptors for these pollutants will remain below 10% of the air quality guidance values (AGVs) when considering the proposed design changes.

In accordance with the *Guideline: Air emissions* (DWER 2019), the AGVs are to be met at all offsite sensitive receptors in the modelling domain for criteria pollutants such as nitrogen dioxide (NO₂), sulphur dioxide (SO₂) and particulate matter (PM₁₀ and PM_{2.5}). The modelling indicated there were no predicted exceedances of the modelled pollutants at any of the sensitive

receptors.

Individual toxic pollutants, such as sulfuric acid ($\text{SO}_3/\text{H}_2\text{SO}_4$) and ammonia (NH_3), are to generally be met everywhere within the modelling domain excluding industry premises (anywhere outside the premises) (DWER 2019). The predicted 24-hour GLC of $\text{SO}_3/\text{H}_2\text{SO}_4$ did not exceed the assessment criteria anywhere in the modelling domain. The 1-hour GLC for $\text{SO}_3/\text{H}_2\text{SO}_4$ were predicted to be below the assessment criteria ($18\mu\text{g}/\text{m}^3$) outside the premises boundary.

The predicted 1-hour GLC of NH_3 are expected to exceed the assessment criteria in the vicinity of the project site. Considering the spatial extent of the exceedance and noting there are no sensitive receptors in the vicinity of the premises, the delegated officer considers the risk of ammonia emissions to be low. Additionally, the highest predicted 1-hour GLC of ammonia at a sensitive receptor was $12\mu\text{g}/\text{m}^3$ in the updated modelling; a decrease from the previous modelling that had a highest predicted 1-hour GLC of $54.2\mu\text{g}/\text{m}^3$ at a sensitive receptor. Based on this, the delegated officer considers that the risk of ammonia emissions remains the same and has not increased as a result of the proposed design modifications.

Table 3: ERER emission source characteristics (ETA 2026)

Parameter	Source											
	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12
	Off-gas treatment system stack	Kiln burner stack A	Kiln burner stack B	Kiln burner stack C	Kiln burner stack D	Boiler 1 stack	Boiler 2 stack	Boiler 3 stack	Pr calciner – exhaust stack	Nd calciner – exhaust stack	NdPr calciner – exhaust stack	Dy calciner – exhaust stack
Stack height (m agl)	50	16.3	16.3	16.3	16.3	15.03	15.03	15.03	22.6	22.6	22.6	22.6
Stack diameter (mm)	800	389	389	389	389	580	580	580	356	711	711	356
Temperature (°C)	72.7	320	320	320	320	132	132	132	730	770	600	600
Exit velocity (m/s)	11.9	24.2	24.2	24.2	24.2	14.6	14.6	14.6	12	12	12	12
Emission rate (g/s)												
NO _x (NO ₂ equivalent)	-	0.183	0.183	0.183	0.183	0.250	0.250	0.250	0.040	0.150	0.170	0.060
SO ₂	0.813	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.0002	0.001	0.001	0.0003
SO ₃	0.407	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.0002	0.001	0.001	0.0003
H ₂ SO ₄	0.407	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.0002	0.001	0.001	0.0003
Particulates	0.203	0.010	0.010	0.010	0.010	0.028	0.028	0.028	0.002	0.008	0.009	0.004
Ammonia	26.0	-	-	-	-	-	-	-	-	-	-	-

Note: Bolded values are amendments in parameters from the revised modelling

(Table 3 continued)

Parameter	Source											
	A13	A14	A15	A16	A17	A18	A19	A20	A21	A22	A23	A24
	Tb calciner – exhaust stack	SEG dryer – exhaust stack	HREY dryer – exhaust stack	Pr calciner – off gas stack	Nd calciner – off gas stack	NdPr calciner – off gas stack	Dy calciner – off gas stack	Tb calciner – off gas stack	SEG dryer – off gas stack	HREY dryer – off gas stack	Ammonia scrubber	CO2 absorber
Stack height (m agl)	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	13.6	25.9
Stack diameter (mm)	356	356	711	356	324	324	256	356	356	407	600	456
Temperature (°C)	600	325	450	80	80	80	80	80	80	110	52.7	30
Exit velocity (m/s)	12	12	18.1	12	12	12	12	12	12	12	18.3	12
Emission rate (g/s)												
NO _x (NO ₂ equivalent)	0.020	0.040	0.220	-	-	-	-	-	-	-	-	0.280
SO ₂	0.0001	0.0002	0.001	-	-	-	-	-	-	-	-	-
SO ₃	0.0001	0.0002	0.001	-	-	-	-	-	-	-	0.016	0.010
H ₂ SO ₄	0.0001	0.0002	0.0001	-	-	-	-	-	-	-	0.016	0.010
Particulates	0.001	0.002	0.012	0.002	0.009	0.011	0.004	0.001	0.009	0.031	-	-
Ammonia	-	-	-	-	-	-	-	-	-	-	0.031	0.026

Note: Bolded values are amendments in parameters from 2025 modelling

(Table 3 continued)

Parameter	Source												
	A25	A26	A27	A28	A29	A30	A31	A32	A33	A34	A35	A36	A37
	RE concentrate delivery extraction system	Magnesia recovery tank 1 vent	Magnesia recovery tank 2 vent	Magnesia recovery tank 3 vent	Magnesia recovery tank 4 vent	Mg recovery thickener – Vent 1	Mg recovery thickener – Vent 2	Mg thickener U/F tank	Softening tank vent	Softening clarifier tank vent	ABC tank vent	Ammonia solution storage tank 1 vent	Ammonia solution storage tank 2 vent
Stack height (m agl)	4.1	10.3	10.3	10.3	10.3	11.4	11.4	18.4	8.4	8.2	8.7	9.0	9.0
Stack diameter (mm)	580	150	150	150	150	200	200	250	200	150	100	300	300
Temperature (°C)	25	25	25	25	25	25	25	25	25	25	25	25	25
Exit velocity (m/s)	8	3.22	3.22	3.22	3.22	1.55	1.55	0.19	1.86	3.30	0.57	0.09	0.09
Emission rate (g/s)													
NO _x (NO ₂ equivalent)	-	-	-	-	-	-	-	-	-	-	-	-	-
SO ₂	-	-	-	-	-	-	-	-	-	-	-	-	-
SO ₃	-	-	-	-	-	-	-	-	-	-	-	-	-
H ₂ SO ₄	-	-	-	-	-	-	-	-	-	-	-	-	-
Particulates	0.038	-	-	-	-	-	-	-	-	-	-	-	-
Ammonia	-	0.0006	0.0006	0.0006	0.0006	0.0003	0.0003	1.389	0.0006	0.0006	0.500	0.444	0.444

Note: Bolded values are amendments in parameters from 2025 modelling

3.3 Risk ratings

Risk ratings have been assessed in accordance with the *Guideline: Risk Assessments* (DWER 2020b) for those emission sources which are proposed to change and takes into account potential source-pathway and receptor linkages as identified in Section 3.1. Where linkages are incomplete they have not been considered further in the risk assessment.

Where the works approval holder 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 works approval holder'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 works approval holder's controls are not deemed sufficient. Where this is the case the need for additional controls will be documented and justified in Table 4.

The revised works approval W6641/2022/1 that accompanies this amendment report authorises construction, commissioning and time-limited operations. The conditions in the revised works approval have been determined in accordance with *Guidance Statement: Setting Conditions* (DER 2015).

A licence is required following the time-limited operational phase authorised under the works approval to authorise emissions associated with the ongoing operation of the premises i.e. Category 44: metal smelting or refining. A risk assessment for the operational phase has been included in this amendment report, however licence conditions will not be finalised until the department assesses the licence application.

Table 4. Risk assessment of potential emissions and discharges from the premises during operation (including commissioning & time-limited operations)

Risk Event					Risk rating ¹ C = consequence L = likelihood	Works approval holder's controls sufficient?	Conditions ² of works approval	Justification for additional regulatory controls/DWER comments
Source/ Activities	Potential emission	Potential pathways and impact	Receptors	Works approval holder's controls				
Operation (including commissioning and time-limited-operations)								
Operation of refinery plant infrastructure	Air emissions from stacks, scrubbers, vents, etc. (NO ₂ , SO ₂ , SO ₃ , H ₂ SO ₄ , NH ₃ and particulates)	Pathway: Air/windborne pathway Impact: Decline in air quality for surrounding receptors	Townsite of Eneabba approx. 7.3 km north of the refinery footprint Civilians on Brand Highway approx. 4.2 km west of the refinery footprint	Refer to Section 3.1.1	C = Minor L = Unlikely Low risk	Y	Condition 1 (Table 1): Design and construction requirements (Item 1 – EREER processing infrastructure & product finishing) Condition 15 (Table 4): Commissioning requirements - monitoring of point source emissions to air Condition 19 (Table 5): Time limited operations requirements (Item 3 & 4) Condition 120 (Table 6): Time limited operations requirements – authorised emission points to air.	Revised air quality modelling of the proposed changes in air emissions indicated that predicted ground level concentrations remain below 10% of the assessment criteria and did not exceed any AGV at sensitive receptors. Based on this, the proposed changes to stack design/locations are not expected to increase the emissions risk profile. Conditions on works approval W6641/2022/1 regarding air emission points have been updated accordingly. The works approval holder requested to remove stack monitoring associated with the Kiln Burners A-D on the basis that emissions from this source are below detection levels. It was determined that retaining requirements for stack testing during commissioning is appropriate as it provides a means to verify emission estimates used in the air quality modelling and confirm that emissions are below detection levels. Based on the outcomes of the air quality modelling, the risk of emissions to air has been determined to be low, and as such no further monitoring is proposed during time limited operations following the initial emissions validation testing.

Note 1: Consequence ratings, likelihood ratings and risk descriptions are detailed in the *Guideline: Risk assessments* (DWER 2020b).

Note 2: Proposed works approval holder's controls are depicted by standard text. **Additional regulatory controls** depicts additional regulatory controls imposed by department.

4. Consultation

Table 5 provides a summary of the consultation undertaken by the department.

Table 5: Consultation

Consultation method	Comments received	Department response
The Department of Energy and Economic Diversification (DEED) was advised of proposal on 17 February 2026.	No comments received.	N/A
Works approval holder was provided with draft amendment on 29 April 2026.	Refer to Schedule 1 for comments.	Refer to Schedule 1 for response.

5. Conclusion

Based on the information in the application and this assessment, the delegated officer has determined that the amendment proposal does not alter the risk profile of the ERER on the basis of the following:

- The minor amendments in the coordinate locations of infrastructure will not change the distance to sensitive receptors.
- The controls for operation (including commissioning and time limited operations) of the ERER in the works approval remain.
- The revised modelling determined there were no exceedances of AGV predicted at the sensitive receptors for any modelled pollutant and GLCs remain below 10% of the assessment criteria.

The delegated officer has therefore determined that a revised works approval will be granted to reflect ERER design changes, subject to conditions commensurate with the determined controls and necessary for administration and reporting requirements. As discussed in Table 4, requirements to undertake monitoring during commissioning have been retained as these serve to verify emission estimates and validate the outcome of the risk assessment.

Additional amendment:

Following a review of the works approval conditions, the delegated officer has also elected to amend conditions of works approval which relate to the submission and implementation of an environmental commissioning plan. The delegated officer recognises that commissioning activities for premises of this nature can be complex, however, the existing conditions do not provide for the environmental commissioning plan to be updated to reflect potential variations to commissioning activities. To allow appropriate flexibility during commissioning, the conditions have been amended to permit the submission of a revised commissioning plan and to require the implementation of any submitted revised versions. The intent of this change is not to authorise significant changes to plant design or commissioning activities but allow flexibility for minor adjustments that may be needed to support ongoing implementation.

5.1 Summary of amendments

Table 6 provides a summary of the proposed amendments and will act as record of implemented changes. All proposed changes have been incorporated into the revised works approval as part of the amendment process.

Table 6: Summary of works approval amendments

Condition no.	Proposed amendments
Condition 1 Table 1: Design and construction requirements	<p>Removal of 'magnesia recovery circuit' in a condition from Item 1: ERER processing infrastructure.</p> <p>Added vent requirements to Item 1: ERER processing infrastructure.</p> <p>Amended reference of 'acid recovery tank' to 'acid recovery infrastructure' in Item 1.</p> <p>Amended reference to 'monitoring equipment' to 'sampling points' in Item 1.</p> <p>Amended reference to 'EP2' to 'the Concentrator' in Item 1.</p> <p>Amended Item 2 condition regarding pipeline installation location.</p>
Condition 6	Amended row numbers in condition 6(a) and 6(b) to align with updates to Table 1.
Condition 11	New condition added allowing the submission of a revised environmental commissioning plan.
Condition 13 (previously condition 12)	Condition modified to allow environmental commissioning to occur in accordance with the latest version of the environmental commissioning plan.
Condition 19 (previously 18) Table 5: Infrastructure and equipment requirements during time limited operations	<p>Added '(A16 - A23 and A25)' into Item 3: ERER processing infrastructure row for clarity.</p> <p>Amended reference of 'acid recovery tank' to 'acid recovery infrastructure' in Item 1.</p> <p>Amended reference to 'EP2' to 'the Concentrator' in Item .</p>
Condition 20 (previously 19) Table 6: Authorised emission points to air	<p>Amended the minimum stack heights and maximum stack internal diameters of the emission points.</p> <p>Removed Ammonia scrubber 2.</p>
Figure 3: Map of air emission points	Updated Figure 3 with new emission point locations and new vents.
Figure 4: General site layout of the premises	Updated Figure 4 with current general site layout.

References

1. Department of Environment Regulation (DER) 2015, *Guidance Statement: Setting Conditions*, Perth, Western Australia.
2. Department of Environment (DoE) 2006, *Air Quality Modelling Guidance Notes*, Perth, Western Australia.
3. Department of Water and Environmental Regulation (DWER) 2019, *Guideline: Air emissions*, Perth, Western Australia.
4. Department of Water and Environmental Regulation (DWER) 2020a, *Guideline: Environmental Siting*, Perth, Western Australia.
5. Department of Water and Environmental Regulation (DWER) 2020b, *Guideline: Risk Assessments*, Perth, Western Australia.
6. Environmental Technologies & Analytics (ETA) 2026, *Eneabba Rare Earth Refinery – Air quality modelling assessment update*, Perth, Western Australia.
7. Iluka Rare Earths Pty Ltd 2026, *Eneabba Rare Earths Refinery - Application to amend works approval W6641/2022/1, Attachment 3B: supporting information*, Perth, Western Australia.
8. Iluka Rare Earths Pty Ltd 2026, *Application form – works approval amendment*, Perth, Western Australia.

Appendix 1: Summary of works approval holder's comments on risk assessment and draft conditions

Condition	Summary of works approval holder's comment	Department's response
Works approval comments		
Table 1: Design and construction requirements (Item 1)	Works approval holder has requested to amend reference of 'acid recovery tank' to 'acid recovery infrastructure' to accurately align with the acid mixing system components.	Accepted and amended.
Table 1: Design and construction requirements (Item 1)	Works approval holder has requested to amend reference of 'monitoring equipment' to 'sampling points' to align with AS4323.1 compliance.	Accepted and amended.
Table 1: Design and construction requirements (Item 1)	Works approval holder has requested to amend reference of 'EP2' to 'the Concentrator' as EP2 was the project name and the Concentrator is the processing plant.	Accepted and amended.
Table 1: Design and construction requirements (Item 2)	Works approval holder has requested to amend "all pipelines within the Refinery Plant Area must be located on hardstand areas" to "all pipelines within the Refinery Plant Area must be installed either within pipe racks, buried underground, or laid at ground level within designated hardstand areas" as the proposed change will align with requirements of the <i>Dangerous Goods Safety Act 2004</i> and achieves the intent of the pipelines being located to avoid interaction with site vehicles or machinery.	The delegated officer has determined the condition will be amended as the proposed change will not alter the risk profile of the premises.
Table 5: Infrastructure and equipment requirements during time limited operations (Item 1)	Works approval holder has requested to amend reference of 'acid recovery tank' to 'acid recovery infrastructure' to accurately align with the acid mixing system components.	Accepted and amended.
Table 5: Infrastructure and equipment requirements during time limited operations (Item 2)	Works approval holder has requested to amend reference of 'EP2' to 'the Concentrator' as EP2 was the project name and the Concentrator is the processing plant.	Accepted and amended.

Condition	Summary of works approval holder's comment	Department's response
Table 5: Infrastructure and equipment requirements during time limited operations (Item 7)	Works approval holder has requested to replace conditions "slurry nominal beach slope of approximately 1V:200H" and "tailings discharged sub-aerially into the facility in thin discrete layers via a single spigot that is regularly repositioned to maximise tailings consolidation" with "tailings deposited into the facility in accordance with the deposition methods outlined in the final TSF Operating Manual". The works approval holder states a beach slope will not be formed during TLO activities but instead near the final filling of the TSF and that the final tailings deposition method will be defined in the TSF Operating Manual.	The delegated officer has determined the conditions will not be amended as this request is out of the assessment scope and will require a more detailed assessment, including a review of the final TSF Operating Manual.
Condition 23 (i)	Works approval holder requests the removal of Condition 23 (i) "a review of tailing deposition performance to achieve targeted beach slope" as a beach slope is not expected to be creating during TLO.	The delegated officer has determined the conditions will not be amended as this request is out of the assessment scope and will require a more detailed assessment, including a review of the final TSF Operating Manual.
Table 8:Definitions	Works approval holder requests the removal of condition EP2 from Table 8 to align with changes in the works approval.	Accepted and amended.
Figure 4: General site layout of the premises	Works approval holder requested Figure 4 is updated with a figure displaying current general site layout and alignment of pipelines.	Updated figure accepted and added.
Amendment report comments		
Table 1: Works approval holder's controls	Works approval holder requested to amend "off-gas treatment stack equipped with monitoring equipment and designed to meet emission requirements" with "off-gas treatment stack equipped with sampling points and designed to meet emission requirements" to align with works approval changes.	Accepted and amended.
Table 1: Works approval holder's controls	Works approval holder requested to amend "vented air from ERER processing infrastructure to be filtered and cleaned prior to release" to "vented air must be filtered or cleaned via scrubber or baghouse filter prior to release at the emission points (A16-A23 and A25) detailed in Table 6" to align with Table 5 text of the works approval.	Accepted and amended to proposed text excluding '(A16-A23 and A25) detailed in Table 6' for the purpose of Table 1 remaining concise.
Table 6: Summary of works approval amendments	Works approval holder requested to amend "added '(A1-A25)' into Item 3: ERER processing infrastructure row for clarity" to Added '(A16 - A23 and A25)' into Item 3: ERER processing infrastructure row for clarity' to align with Table 5 of the works approval.	Accepted and amended.