Government of Western Australia
Department of Water and Environmental Regulation

Amendment Report

Application for Licence Amendment

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

Licence Number	L8859/2014/1
Licence Holder	Mineral Resources Limited
ACN	118 549 910
File Number	DER2014/001998-1
Premises	Iron Valley Iron Ore Project Mining Lease 47/1439 and Miscellaneous Licence 47/757 NEWMAN WA 6753 As defined by the Premises maps attached to the Revised Licence
Date of Report	13 June 2025
Decision	Revised licence granted

Christine Pustkuchen
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Date: 2025.06.13 16:22:00 +08'00'

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

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1. Decision summary

Licence L8859/2014/1 is held by Mineral Resources Limited (Licence Holder) for the Iron Valley Iron Ore Project (the Premises), located at Mining Tenement M47/1439 and Miscellaneous Licence L47/757 in Newman WA.

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 operation of the Premises. As a result of this assessment, Revised Licence L8859/2014/1 has been granted.

The Revised Licence issued as a result of this amendment consolidates and supersedes the existing Licence previously granted in relation to the Premises.

2. Scope of assessment

2.1 Regulatory framework

In completing the assessment documented in this Amendment 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

On 31 January 2025 the Licence Holder submitted an application to the department to amend Licence L8859/2014/1 under section 59 and 59B of the *Environmental Protection Act 1986* (EP Act). The following amendments are being sought:

- Increase authorised licence production capacity for Category 89 from 1,500 tonnes per annual period to 2,500 tonnes per annual period. Increase is the result of an increase in mine operations and workforce due to developing the East 2/3 Pit.
- Extension to current landfill and tyre disposal area on the existing waste rock landform 2 (WRL2).
- New landfill area within the mined and backfilled Central (C10) Pit and new landfill areas proposed in the future mined North Pit and East Pit once they have been backfilled.
- Removal of monitoring bore PB22 as a groundwater monitoring point and replace with PB25, an existing production bore, approximately 650m north of PB22 targeting the same aquifer and screened to a similar depth.

Table 1 below outlines the proposed throughput change to the existing Licence.

Table 1: Proposed throughput changes

Category	Current throughput capacity	Proposed throughput capacity	Description of proposed amendment
89	1,500 tonnes per year	2,500 tonnes per year	An increase to the production capacity of Category 89 is required to accommodate an expected increase in waste generation compared to previous years. This increase will be generated by additional waste from the camp, minesite and the disposal of tyres from road train haulage contractors servicing the Premises. It also accommodates potential waste from nearby Mineral Resources mining

			projects in the future.

Estimated quantities of waste that will be landfilled at the premises is shown below in Table 2. There is no proposed changes to approved waste types already on the licence.

Table 2: Waste types and estimated quantities per month

Waste Type	Estimated Quantity
Inert waste Type 2 (Tyres)	123 tonnes / month
Inert Waste Type 1 & Type 2 (Plastics)	55 tonnes / month
Putrescible Waste	
Clean Fill	
Special Waste Type 1	

No change is proposed to the operation and management of the landfills than what is already approved under this licence. The geotechnical aspects of the new landfill areas will be assessed and regulated by the Department of Energy, Mines, Industry Regulation and Safety (DEMIRS) under the mining proposal associated with this project. Figure 1 shows the location of the new landfill areas.

Tyre disposal

The Licence Holder is requesting approval to dispose of used tyres in separate cells from putrecible and other wastes within all landfill areas (current and proposed). Currently used tyres are only approved for disposal within the Tyre disposal Area shown within Figure 1.

Tyres will be landfilled in accordance with Part 6 of the *Environmental Protection Regulations 1987* and the additional requirements for the acceptance and landfilling of controlled waste (tyres) set out in the *Environmental Protection (Controlled Waste) Regulations 2004.*

Asbestos disposal

The Licence Holder is requesting approval to dispose of asbestos in designated areas within all landfill areas (current and proposed). Currently asbestos is only approved for disposal within the current landfill area shown within Figure 1.

Special Waste Type 1 will be covered with at least 500 mm of inert and incombustible material after deposition, during the operational phase. It will only to be disposed of into a designated asbestos disposal areas within the landfill areas and no comingling with other waste types will occur. It will not be deposited within the upper 2 m of the final landfill tipping surface and no works will be carried out on the landfill that could release asbestos fibres to the environment.

2.2.1 Removal of monitoring bore PB22

Monitoring bore PB22 is no longer accessible as it is located within a pit that is being backfilled. The licence holder has requested to remove PN22 from Table 3.4.1 of licence L8859/2014/1. The Licence Holder proposes PB25 as a monitoring bore to replace PB22. Bore PB25 is located approximately 650 m north of PB22 along the western wall of the Central Pit.

Given PB25 targets the same aquifer and is screened to a similar depth as PB22, it is expected that the requirements of Table 3.4.1 of the licence can be complied with. The department has reviewed the location of this bore and agrees that it is a suitable replacement bore for PB22.

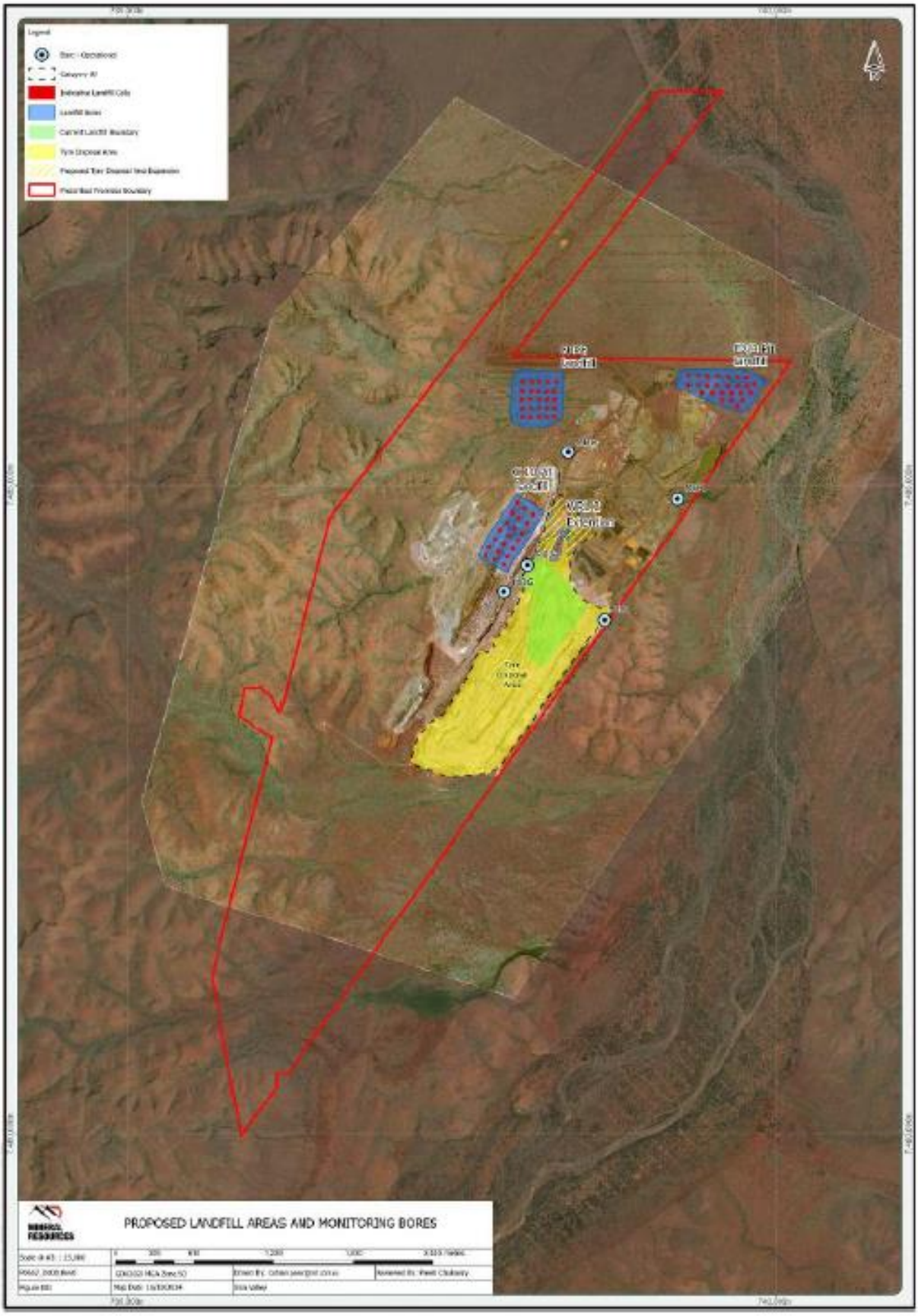

Figure 1: Location of proposed new landfill areas.

2.3 Part IV of the EP Act

The Iron Valley Iron Ore Project is approved under Ministerial Statement 1044 which was published on 8 December 2016 (EPA Report 1585). The changes proposed under this licence amendment are consistent with the approved project under Part IV of the EP Act.

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 2020).

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 3 below.

Table 3: Licence Holder controls

Emission	Sources	Potential pathways	Proposed controls
Dust	Construction and operation of landfills	Air/windborne pathway	Dust will be managed in accordance with Iron Valley Operations Dust Management Plan, including; • The use of water carts on dust generating areas • Trafficable areas will be maintained in a condition that will minimise the generation or emission of windblown or traffic generated dust • Restricting traffic to most direct route on the site and prohibiting traffic on non-active areas • Speed limits on facility access roads.
Asbestos fibers	Disposal of asbestos	Air/windborne pathway	Cover with at least 500 mm of inert and incombustible material after deposition (condition 1.2.4) Only to be disposed of in designated disposal areas with landfills with no comingling of other waste types. Will not be deposited within the upper 2 m of the final landfilling tipping surface (condition 1.2.2). No works will be carried out on the landfill that could release asbestos fibers to the environment (condition 1.2.2).

Emission	Sources	Potential pathways	Proposed controls
Potential for smoke (Fire)	Operation of landfill	Air/windborne pathway	Tyres will be landfilled in accordance with Part 6 of the *Environmental Protection Regulations 1987* and the additional requirements for the acceptance and landfilling of controlled waste (tyres) set out in the *Environmental Protection (Controlled Waste) Regulations 2004.* To reduce fire risk, any temporary tyre storage prior to landfilling will occur in a designated storage area which does not exceed 100 tyres at any time
Landfill leachate Contaminated stormwater runoff	Operation of landfill	Discharge to land	Landfill cells in existing mining landforms, with at least 2 m distance to the highest groundwater level, and no interaction with surface water bodies. Existing condition 1.2.4 – waste cover requirements will apply to new landfill areas Existing condition 1.2.2 – management of waste requirements will apply to new landfill areas.
Windblown waste	Operation of landfill	Air/windborne pathway	Existing condition 1.2.2 – management of waste requirements will apply to new landfill areas. Windblown waste to be contained within boundary of the landfill and returned to tipping area on a monthly basis (at least)

3.1.2 Receptors

In accordance with the *Guideline: Risk assessments* (DWER 2020), the Delegated Officer has excluded employees, visitors and contractors of the Licence 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 4 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 *(Guideline: Environmental siting* (DWER 2020)). Figure 2 shows the location of sensitive receptors.

Table 4: Sensitive human and environmental receptors and distance from prescribed activity

Human Receptors	Distance from prescribed premises boundary
Marillana Station Homestead	Located approximately 11.5 km northeast of the premises boundary. **Screened out due to distance**
Environmental receptors	**Distance from prescribed premises boundary**
Groundwater	The current groundwater level varies between 456

	mAHD to 368 mAHD. Post mining groundwater levels are expected to recover to between 438 mAHD in East Pit and 428 mAHD in North Pit.
Weeli Wolli Creek	Weeli Wolli Creek is approximately 200 m east of proposed East Pit landfill.
Native Vegetation	Native vegetation is located adjacent to the proposed East Pit and North Pit landfill locations.

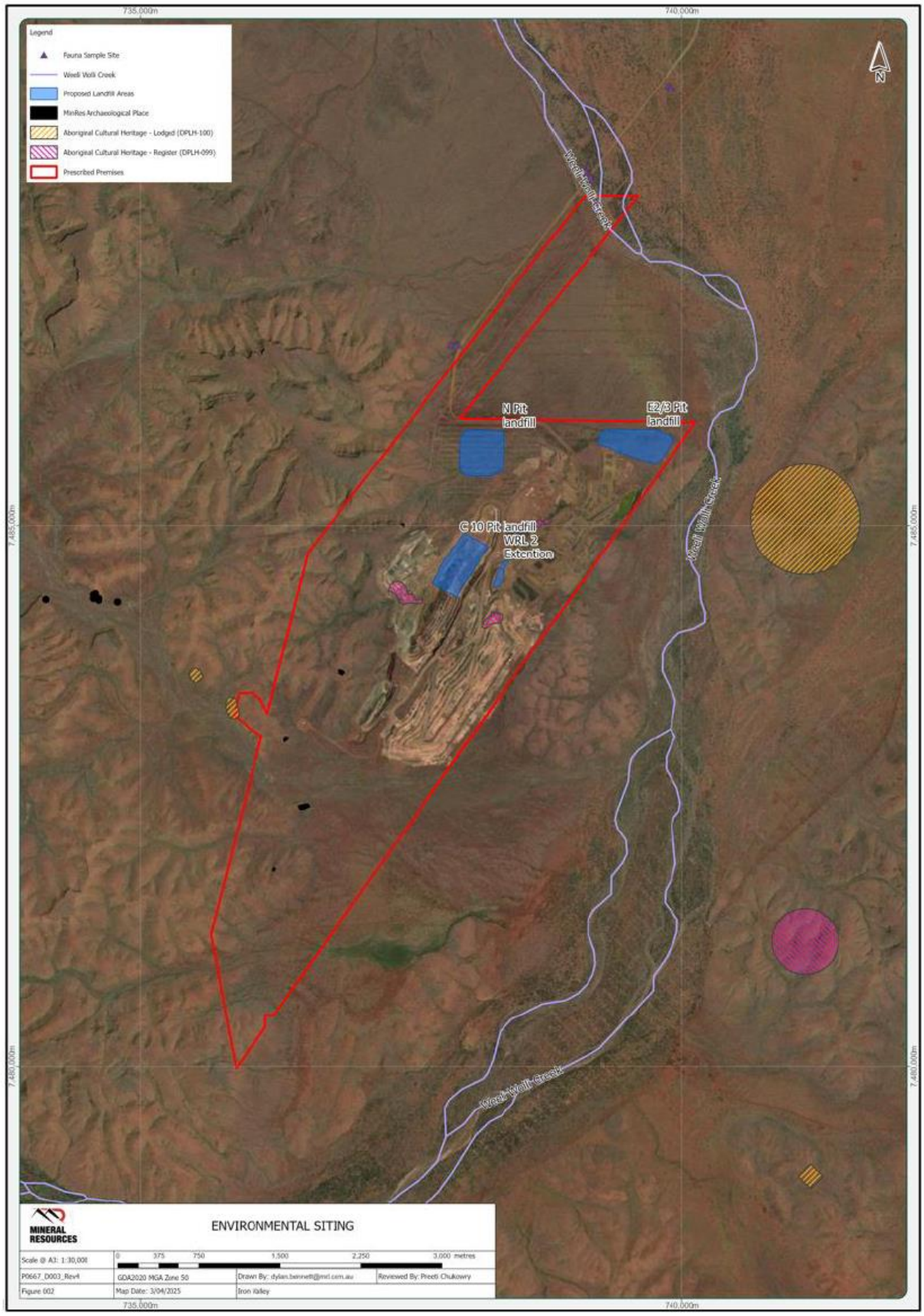

Figure 2: Distance to sensitive receptors

3.2 Risk ratings

Risk ratings have been assessed in accordance with the *Guideline: Risk Assessments* (DWER 2020) 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 Licence 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 Licence Holder's proposed controls to be critical to maintaining an acceptable level of risk, these will be incorporated into the licence as regulatory controls.

Additional regulatory controls may be imposed where the Licence Holder's controls are not deemed sufficient. Where this is the case the need for additional controls will be documented and justified in Table 5.

The Revised Licence L8859/2014/1 that accompanies this Amendment Report authorises emissions associated with the operation of the Premises Category 89 activities.

The conditions in the Revised Licence have been determined in accordance with *Guidance Statement: Setting Conditions* (DER 2015).

Table 5. Risk assessment of potential emissions and discharges from the Premises during construction and operation

Risk Event					Risk rating[1] C = consequence L = likelihood	Licence Holder's controls sufficient?	Conditions of licence	Justification for additional regulatory controls
Source/Activities	**Potential emission**	**Potential pathways and impact**	**Receptors**	**Licence Holder's controls**				
Construction								
Construction of landfills	Dust	Air/windborne pathway causing smothering of vegetation or contamination of surface water	Nearby vegetation Weeli Wolli Creek	Refer to Table 3	C = Slight L = Unlikely **Low Risk**	Y	N/A	Dust emissions can be suitably managed under the proponent's Iron Valey Operations Dust Management Plan. After implementation of Licence Holder's proposed controls, dust emissions are considered to be a low risk. No additional regulatory controls are required.
Operation								
Excavation of landfill trenches and covering of waste	Dust	Air/windborne pathway causing smothering of vegetation or contamination of surface water	Nearby vegetation Weeli Wolli Creek	Refer to Table 3	C = Slight L = Unlikely **Low Risk**	Y	N/A	Dust emissions can be suitably managed under the proponent's Iron Valey Operations Dust Management Plan. After implementation of Licence Holder's proposed controls, dust emissions are considered to be a low risk. No additional regulatory controls are required.
Landfill fire (tyres)	Smoke	Air/windborne pathway	No human receptors Native Vegetation / fauna	Refer to Table 3	C = Slight L = Rare **Low Risk**	Y	N/A	No additional regulatory controls are required.
Disposal of waste into landfill trenches	Leachate	Seepage from landfill cells into groundwater	Groundwater	Refer to Table 3	C = Slight L = Unlikely	Y	Existing Condition 1.2.2	No additional regulatory controls are required.

Risk Event					Risk rating[1] C = consequence L = likelihood	Licence Holder's controls sufficient?	Conditions of licence	Justification for additional regulatory controls
Source/Activities	**Potential emission**	**Potential pathways and impact**	**Receptors**	**Licence Holder's controls**				
		causing change in groundwater chemistry			**Low Risk**		Existing Condition 1.2.4 Existing Condition 1.2.5	
Windblown Waste from operation of landfill	Windblown rubbish	Airborne pathway resulting in potential harm to fauna and damage to vegetation	Nearby vegetation Weeli Wolli Creek	Refer to Table 3	C = Minor L = Unlikely **Medum Risk**	N/A	Existing Condition 1.2.2 Existing Condition 1.2.4 Existing Condition 1.2.5	No additional regulatory controls are required.
Disposal of asbestos	Asbestos fibers	Release of asbestos fibers into the environment causing contamination	Native vegetation Weeli Wolli Creek	Refer to Table 3	C = Moderate L = Unlikely **Medum Risk**	Y	Existing Condition 1.2.2 Existing Condition 1.2.4	No additional regulatory controls are required.

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

4. Consultation

The Licence Holder was provided with the draft Amendment Report on 27 May 2025. Comments received from the Licence Holder on 13 June 2025 have been considered by the Delegated Officer as detailed in Appendix 1.

5. Conclusion

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

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 Licence as part of the amendment process.

Table 6: Summary of licence amendments

Condition no.	Proposed amendments
Table 1.2.1	1) No more than 1,500 tonnes per Annual Period of all waste types cumulatively shall be disposed of by landfilling. Has been replaced with: No more than 2,500 tonnes per Annual Period of all waste types cumulatively shall be disposed of by landfilling. 2) Reference to Figure 4 showing landfill locations has been added. 3) Approval of disposal of tyres within all landfills (in dedicated cells) has been added 4) Approval to dispose of asbestos within all landfills (in designated areas) has been added. 5) Notes 1 and 2 added providing further guidance of landfilling tyres
Table 3.4.1	Monitoring bore PB22 has been replaced by PB25.
Condition 3.4.1	Licence referred to Table 3.1.1 which did not exist. Condition updated to refer to Table 3.4.1.
Schedule 1: Maps	Figure 4 updated with new landfill areas and bore locations.

References

1. Department of Environment Regulation (DER) 2015, *Guidance Statement: Setting Conditions*, Perth, Western Australia.
2. Department of Water and Environmental Regulation (DWER) 2020, *Guideline: Environmental Siting*, Perth, Western Australia.
3. DWER 2020, *Guideline: Risk Assessments*, Perth, Western Australia.

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

Condition	Summary of Licence Holder's comment	Department's response
Registered business address	Please update registered business address to current address. ASIC company extract provided	Registered business address on licence updated to current address.
Table 1.2.1 Management of waste – row 3	In the Requirements column, under Special Waste Type 1 (asbestos), the Department has inserted new text reading: "…*labelled as 'Current landfill' as shown in Figure 4, Schedule 1."* This is not a requirement of the previous licence and this was not requested as a change by MinRes. Implementing this requirement would prevent MinRes from safely and effectively disposing of asbestos waste as the area labelled as 'Current landfill' on Figure 4 is at capacity. Any new incidences of asbestos would need to be disposed of in either the proposed landfill extension area or one of the proposed new landfill locations within mine voids. MinRes requests amendment of this text to read: "*Only to be disposed of into a designated asbestos disposal area within the Landfill Facility* ***locations*** *labelled as 'Current landfill' as shown in Figure 4, Schedule 1*"	The application was unclear as to whether MinRes was seeking approval to dispose of asbestos within the new landfill areas and therefore it was not assessed. This activity has now been added as a risk event to the risk assessment table in section 3 of this report. The licence holder's suggested amendments to the text have been accepted.
Table 3.4.1	The Department has inserted a note for consideration: *Note for Licence Holder: updated Attachment 3B (supporting information) Figure 2 (now labelled Figure 4 in licence) includes MBG, please confirm if you wish to add MBG to the monitoring points listed in this table.* MinRes confirms that monitoring bore MBG should not be added to the list of ambient groundwater monitoring points. MinRes has removed this bore from the map (Figure 4 in the licence).	Bore MBG has not been added to the table. Figure 4 has been updated.
Schedule 1 Figure 4	Replacement map provided	Figure 4 has been updated.