



Application for Licence Amendment

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

Licence Number	L8362/2009/2
Licence Holder	BHP Iron Ore Pty Ltd
ACN	008 700 981
File Number	APP-0034137
Premises	Redmont Camp Special Lease I123402 MARBLE BAR WA 6760 Legal description – Lot 135 on Deposited Plan 048926 As defined by the coordinates in Schedule 1 of the Revised Licence As defined by the Premises maps attached to the Revised Licence
Date of Report	4 June 2026
Decision	Revised licence granted

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1. Decision summary

Licence L8362/2009/2 (L8362) is held by BHO Iron Ore Pty Ltd (Licence Holder) for the Redmont Camp Wastewater Treatment Plant (the Premises), located at Special lease I123402.

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 Licence L8362 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. The Revised Licence has been granted in a new format with existing conditions being transferred, but not reassessed, to the new format.

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 Amendment summary

On 12 February 2026, the Licence Holder submitted an application to the department to amend Licence L8362 under section 59 and 59B of the *Environmental Protection Act 1986* (EP Act). Existing Licence L8362 covers the Redmont Camp Wastewater Treatment Plant (WWTP) and Quarry 4 inert landfill. The existing WWTP was constructed in 2010 and has been significantly reduced in size since the construction peak and now has a maximum sewage generation of 68 kL/day with an average sewage generation of 47 kL/day. The WWTP is coming to its end of life.

The following amendments are being sought:

- modify the WWTP treatment method from a batch reactor to primary treatment via aeration in the existing lined evaporation pond.
- reduce the Existing Licence production and design capacity (P&DC) from 290 m³/day to 190 m³/day.

The proposed modification of the WWTP is the installation of a new Inlet and Bypass Screen and associated bin for screened material and to repurpose Balance Tanks 1 and 2 to be Bypass Overflow Tanks. The new WWTP infrastructure equipment will be located on the same concrete pad as the existing facility.

The existing lined evaporation pond covers an area of 2.24 ha with an operational depth of 1.5 m providing a total storage capacity of 33,600 m³. Untreated wastewater from the Bypass screen will flow directly into the lined evaporation pond which will essentially operate as a large facultative pond providing the primary treatment using natural surface aeration to oxygenate the pond for removal of Biological Oxygen Demand (BOD) and nitrogen.

Desludging will occur when the average sludge depth is 0.5 m in the evaporation pond. Desludging will be performed by a contractor and transported and disposed off-site at an authorised licenced facility. Figure 1 provides an overview of the Premises while Figure 2 provides an overview of the new WWTP.



Figure 1 Premises overview

Licence: L8362/2009/2

IR-T15 Amendment report template v3.0 (May 2021)

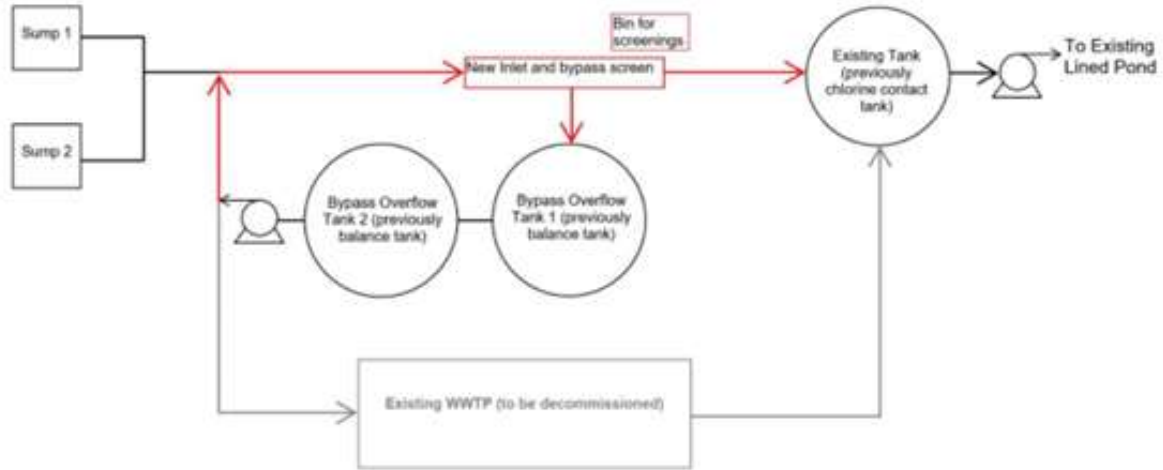


Figure 2 WWTP overview

This amendment is limited only to changes to Category 54 activities from the Existing Licence. No changes to the aspects of the existing Licence relating to Category 63 have been requested by the Licence Holder.

Table 1 below outlines the proposed changes to the existing Licence.

Table 1: Proposed design capacity changes

Category	Current design capacity	Proposed design capacity	Description of proposed amendment
54	296 m ³ /day	190 m ³ /day	Reduction in P&DC due to modifying the WWTP
63	135,000 tonnes per annual period	135,000 tonnes per annual period	N/A

2.3 Consolidation of Licence

As part of this amendment package the department has consolidated the licence by incorporating changes made under the Amendment Notices as summarised in Table 2.

Table 2: Licences consolidated in this amendment

Instrument	Issued	Summary of approval
L8362	2/11/2009	Licence granted
L8362	26/04/2016	Notice of Amendment of Licence Expiry Dates – expiry 1 November 2028
L8362	16/04/2022	Notice of Amendment of Licence Reporting Requirements.
L8362	28/03/2018	Amendment Notice 1 to add Category 63 to the Licence.

The obligations of the Licence Holder have not changed in consolidating the licence. The department has not undertaken any additional risk assessment of the Premises related to previous Amendment Notices.

In consolidating the licence, the CEO has:

- updated the format and appearance of the Licence;
- deleted the redundant AACR form set out in schedule 1 of the previous licence and advise the Licensee to obtain the form from the department’s website;
- revised licence condition’s numbers, and removed any redundant conditions and realigned condition numbers for numerical consistency; and
- corrected clerical mistakes and unintentional errors.

The full consolidation of licence conditions as they relate to this Revised Licence are detailed in Section 5.1. Previously issued Amendment Notices will remain on the department’s website for future reference and will act as a record of the department’s decision making.

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 also details the proposed control measures the Licence Holder has proposed to assist in controlling these emissions, where necessary.

Table 3: Licence Holder controls

Emission	Sources	Potential pathways	Proposed controls
Construction			
Dust	Construction of WWTP, vehicle movements, lift-off from soils and earthworks etc.	Air/windborne pathway	Siting. Small size for construction site, so speed will be limited.
Noise			Siting. Small size for construction site, so speed will be limited. Works will be conducted in accordance with the <i>Environmental Protection (Noise) Regulations 1997</i> (Noise Regs). Vehicles and equipment will be fitted with appropriate noise controls. All plant, equipment, and vehicles will be regularly inspected and maintained.

Emission	Sources	Potential pathways	Proposed controls
Operation			
Dust	Operation of WWTP and vehicles movements	Air / windborne pathway	Sitting. Small size for WWTP site, so speed will be limited.
Noise			Sitting. Small size for WWTP site, so speed will be limited. Comply with Noise Regs.
Odour	Operation of WWTP and abnormal operations of the WWTP		Sitting. Aeration.
Leachate	Treated wastewater containing contaminants (e.g. nutrients, pathogens, metals)	Subsurface seepage causing contamination of soil, degradation of groundwater quality and impacts to downgradient receptors.	Lined evaporated pond constructed to meet not less than 1 x 10 ⁻⁸ m/s permeability. Evaporation pond maintains a 500 mm freeboard. Desludging will occur when there is an average of 0.5 m of sludge – sludge removed off-site. Monitoring and recording of flow rates. Separation to groundwater.
Spills / Leaks	Operation of WWTP, Untreated and Treated wastewater containing contaminants (e.g. nutrients, pathogens, metals)	Direct discharge to land and groundwater	Concrete hardstand bunded. Daily inspection and maintenance. All storage components are impermeable. High level alarms. Sufficient freeboard in each tank. Spare pumps kept on site. Sludge will be stored in separate sludge storage tanks and removed off-site.
Contaminated Stormwater		Direct discharge to land and surface water	Sitting. Concrete hardstand bunded. Uncontaminated stormwater directed away from WWTP. Evaporation pond directed uncontaminated stormwater away from the pond.

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)).

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

Human receptors	Distance from prescribed activity
Residential Premises Wood Stock Homestead	40 km north
Great Northern Highway	15 km west
Environmental receptors	Distance from prescribed activity
Coonarrrie creek	400 m north

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 L8362 that accompanies this Amendment Report authorises emissions associated with the operation of the Premises.

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 ² of licence	Justification for additional regulatory controls/ DWER comments
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Licence Holder's controls				
Construction								
Placement of Bypass screen and associated equipment including vehicle movements (reversing beepers).	Dust	Air/windborne pathway causing impacts to health and amenity	Residences 40 km north	Refer to Section 3.1	C = Slight L = Unlikely Low Risk	Y	N/A	The Delegated Officer has considered the scale of the works and the separation distance between the source and receptors as indicating that the risk of dust emission impacts is not foreseeable. Dust can be adequately regulated by section 49 of the EP Act.
	Noise			Refer to Section 3.1	C = Slight L = Unlikely Low Risk	Y	N/A	The Delegated Officer has considered the separation distance between the source and receptors as a guide to inform the risk of noise emissions as not foreseeable. Noise emissions are adequately regulated under the <i>Environmental Protection (Noise) Regulations 1997</i> .
Operation								
Operation of WWTP Vehicle movements	Dust	Air/windborne pathway causing impacts to health and amenity	Residences 40 km north	Refer to Section 5.1	C = Slight L = Unlikely Low Risk	Y	N/A	The Delegated Officer has considered the scale of the operations and the separation distance between the source and receptors as indicating that the risk of dust emission impacts is not foreseeable. Dust can be adequately regulated by section 49 of the EP Act.
	Noise	Air/windborne	Residences	Refer to	C = Slight	Y	N/A	The Delegated Officer has considered

Risk Event					Risk rating ¹ C = consequence L = likelihood	Licence Holder's controls sufficient?	Conditions ² of licence	Justification for additional regulatory controls/ DWER comments
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Licence Holder's controls				
		pathway causing impacts to health and amenity	40 km north	Section 3.1	L = Unlikely Low Risk			the scale of the operations and the separation distance between the source and receptors as a guide to inform the risk of noise emissions as not foreseeable. Noise emissions are adequately regulated under the <i>Environmental Protection (Noise) Regulations 1997</i> .
	Odour	Air/windborne pathway causing impacts to health and amenity	Residences 40 km north	Refer to Section 3.1	C = Slight L = Unlikely Low Risk	Y	N/A	The Delegated Officer has considered the scale of the operation and the separation distance between the source and receptors as indicating that the risk of odour emission impacts is not foreseeable. Odour can be adequately regulated by section 49 of the EP Act.
	Leachate	Seepage to land and groundwater causing contamination of soil, degradation of groundwater quality and impacts to downgradient receptors	Groundwater 5-10 mbgl	Refer to Section 3.1	C = Minor L = Possible Medium Risk	Y	Condition 21, 22 and 23	N/A
	Spills / Leaks	Direct discharge to land and groundwater	Groundwater 5-10 mbgl	Refer to Section 3.1	C = Slight L = Unlikely Low Risk	Y	Condition 21, 22 and 23	N/A

Risk Event					Risk rating ¹ C = consequence L = likelihood	Licence Holder's controls sufficient?	Conditions ² of licence	Justification for additional regulatory controls/ DWER comments
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Licence Holder's controls				
	Contaminated stormwater	Overland runoff potentially causing ecosystem disturbance or impacting surface water quality	Coonarrrie creek 400 m north	Refer to Section 3.1	C = Slight L = Unlikely Low Risk	Y	Condition 21, 22 and 23	N/A

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

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

4. Consultation

Table 6 provides a summary of the consultation undertaken by the department.

Table 6: Consultation

Consultation method	Comments received	Department response
Local Government Authority advised of proposal 23 March 2026	The Shire of East Pilbara did not respond.	Noted
Department of Local Government, Industry Regulation and Safety (LGIRS) advised of proposal 23 March 2026	LGIRS did not respond.	Noted
Department of Health (DoH) advised of proposal 23 March 2026	<p>DoH responded on 9 April 2026 advising that:</p> <p>The Department of Health (DOH) approved an application in 2009 to construct or install an apparatus for the treatment of sewage in accordance with the <i>Health (Treatment of Sewage and Disposal of Effluent and Liquid Waste) Regulations 1974</i>. The approval was for an 800 EP wastewater treatment plant with a capacity of 300 m³/day, discharging to one 28,800 m² evaporation pond.</p> <p>DOH has no objection to reducing the wastewater volume to 196 m³/day; however, the proposal includes changes to the treatment process. If any changes are made to the treatment process, the applicant is required to submit a new application to construct or install an apparatus for the treatment of sewage.</p>	<p>Noted.</p> <p>The Applicant will be advised of the requirement to submit a new application in this Amendment Report.</p>
Licence Holder was provided with draft amendment on 2 June 2026	<p>Licence Holder responded on 4 June 2026 advising BHP have reviewed the draft licence amendment and associated report and have no comments / requested changes.</p> <p>BHP are happy to waive the remainder of the comment period.</p>	Noted.

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 7 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 7: Summary of licence amendments

Condition no.	Proposed amendments
-	Category 54 Prescribed Premises P&DC amended from 296 m ³ /day to 190 m ³ /day in Prescribed premises category description table.
Condition 1 Table 1	Sewage acceptance limit amended from 296 m ³ /day to 190 m ³ /day.
Condition 2 Table 2	Sewage processing limit amended from 296 m ³ /day to 190 m ³ /day.
Condition 21 Table 7	Specified Works – addition of Table 7 to allow construction to modify the WWTP.
Condition 22	Specified Works – requirement to submit an Environmental Compliance Report to ensure the modified WWTP was constructed according to condition 21 Table 7.
Condition 23	Specified Works – condition 23 outlines the required information and authorisations to confirm the works were constructed according to Condition 21 Table 7.

Table 8 provides a conversion map table can also be used in the case where the licence is reformatted into the current licence template.

Table 8: Consolidation of licence conditions in this amendment

Existing condition	Condition summary	Revised licence condition	Conversion notes
N/A	Expiry Date: 01 November 2019	Expiry Date: 01 November 2028	In accordance with the Notice of Amendment of Licence Expiry Dates (29/04/2016)
N/A	Prescribed Premises Category table	N/A	Revised to current licensing format.
1.1.1 1.1.2	Interpretation and definitions	N/A Interpretation section, Definitions and Table 1	Redundant condition. Revised to current licensing format.
1.1.3	Australian or other standard	N/A	Redundant condition. Revised to current licensing format.

Existing condition	Condition summary	Revised licence condition	Conversion notes
		Interpretation section, Definitions and Table 1	
1.1.4	Reference to code of practice	N/A Interpretation section, Definitions and Table 1	Redundant condition. Revised to current licensing format.
1.2.1	Emissions	Condition 7	Revised to current licensing format.
1.2.2	Contaminated Stormwater	Condition 8	Revised to current licensing format.
1.3.1	Investigate exceedance	N/A	Redundant condition. Deleted from licence.
1.3.2	Waste Acceptance	Condition 1	Revised to current licensing format.
1.3.3	Waste Processing	Condition 2	Revised to current licensing format.
1.3.4	Containment Infrastructure	Condition 3	Revised to current licensing format.
1.3.5	Evaporation pond management	Condition 4	Revised to current licensing format.
1.3.6	Treat plant vessel management	Condition 5	Revised to current licensing format.
1.3.7	Security measures	Condition 6	Revised to current licensing format.
2.1.1	Monitoring requirements	Condition 10	Revised to current licensing format.
2.1.2	Monitoring frequency	Condition 11	Revised to current licensing format.
2.1.3	Calibration requirements	Condition 12	Revised to current licensing format.
2.1.4	Calibration requirements	Condition 13	Revised to current licensing format.
2.2.1	Monitoring of outputs	Condition 14	Calibration requirements
3.1.1	Information records	Condition 17 and 18	Calibration requirements
3.1.2	Annual Audit Compliance Report	Condition 19	Calibration requirements
3.1.3	Complaints	Condition 16	Calibration requirements

Existing condition	Condition summary	Revised licence condition	Conversion notes
3.2.1	Annual Environmental Repot	N/A	Notice of Amendment of Licence Reporting Requirements. Deleted from Licence.
3.2.3	Annual Environmental Repot	N/A	Notice of Amendment of Licence Reporting Requirements. Deleted from Licence.
3.3.3	Annual Environmental Repot	N/A	Notice of Amendment of Licence Reporting Requirements. Deleted from Licence.
3.3.1	Notification	Condition 20	Revised to current licensing format.
Schedule 1: Maps	Premises map	Schedule 1: Maps	New naming convention, New map.
Schedule 2 Reporting & notifications	Annual Audit Compliance Report Form N1 Notification	N/A	Redundant attachment. Deleted from Licence Forms accessed at www.dwer.wa.gov.au

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.