



## Application for Licence Amendment

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

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<b>Licence number</b>	L6265/1983/8
<b>Licence holder</b>	Boral Resources (W.A.) Ltd
<b>ACN</b>	008 686 904
<b>File number</b>	DWERVT2698
<b>Premises</b>	Boral Asphalt 90 McDowell Street WELSHPOOL WA 6106  Legal description – Lot 43 on Plan 3217
<b>Date of report</b>	8 June 2021
<b>Status of report</b>	Final

# 1. Decision summary

Licence L6265 is held by Boral Resources (WA) Pty Ltd (licence holder) for the Boral Asphalt Plant, located at 90 McDowell Street, Welshpool (the premises).

This report documents the assessment of potential risks to the environment and public health from proposed changes to the emissions and discharges as a result of the operation of a new mobile pre-coating plant at the premises. Following this assessment, amended licence L6265 has been granted.

The amended licence consolidates previous amendments and supersedes the existing licence previously granted in relation to the premises. The amended licence has been granted in the current DWER format with existing conditions being transferred, but not reassessed.

## 2. Scope of assessment

### 2.1 Regulatory framework

In completing the assessment documented in this report, the delegated officer has considered and given due regard to the department's regulatory framework and relevant policy documents, which are available at <https://dwer.wa.gov.au/regulatory-documents>.

### 2.2 Application summary

On 2 November 2020, the licence holder submitted an application to amend Licence L6265 under section 59 and 59B of the *Environmental Protection Act 1986* (EP Act). The licence holder updated the application with an email on 1 December 2020. The following amendments are sought by the licence holder:

1. Addition of a mobile precoater (Precision Screens Precoater 6500) on site to precoat aggregate with a propriety hydrocarbon material to aid in the bonding on asphalt to aggregate.

The licence holder advised the process does not involve the heating of aggregate or bitumen, and precoated aggregate is used off-site for road and tarmac building, and not in the asphalt process on-site. Precoating activities will have a production capacity of 110 tonnes per hour of precoated aggregate, however production is not constant and precoating aggregate is produced on an as needs basis. A site layout map is provided in Appendix 1 depicted the proposed location of the mobile equipment, and the location of existing bunkers to be used for treated aggregate storage. The licence holder also advised the location of the precoater may move around the premises according to operational needs. The licence holder has two Precision Screens Pre-coaters 6000 only one of which will be in operation at site at any one time. Screens may be stored at this site when not in operation.

2. Decrease in air emissions monitoring frequency for emission point A2 from biannually to annually.

The licence holder advised this is consistent with other Boral licences that include use of a Ciber iNOVA 2000 mobile asphalt plant. The same plant moves from the premises to a premises at Tabba Tabba east of Port Headland (L7975/2004/4), where it is subject to annual testing. If the mobile plant moves elsewhere then annual testing will also be included for that premises.

This amendment is limited only to changes to category 35 activities. There are no requested changes relating to category 61A.

### 3. Risk assessment

The delegated officer 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. The following risk assessment solely relates to the new precoating plant.

#### 3.1 Source-pathways and receptors

##### 3.1.1 Emissions and controls

The key emissions and associated actual or likely pathway during premises operation which have been considered in this report are detailed in Table 1 below.

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

**Table 1: Emissions, sources, pathways and licence holder controls**

Emission	Sources	Potential pathways	Proposed controls
Dust	Movement and loading of aggregate	Air/windborne pathway	Use of existing dust controls for and/or management practices within the prescribed premises: <ul style="list-style-type: none"> <li>Materials stored in ground bins and cold feed bins in a damp state</li> <li>Conveyors enclosed with wind shields or other preventative measures.</li> </ul> Screening process enclosed and pre-coated aggregate has lower potential for dust generation compared with virgin aggregate. Precoated aggregate managed in accordance with existing licence conditions. Positioning equipment away from nearby receptors.
Odour	Hydrocarbon mixture for coating aggregate	Air/windborne pathway	Operation will be conducted at ambient temperature minimising odour potential due to minimal volatilisation of vapours.
Noise	Operation of the precoating machine	Air/windborne pathway	The motor is enclosed, there is a muffler on the exhaust and positioned away from nearby receptors.
Leaching of bitumen / diesel precoat to ground	Storage and handling of precoated aggregate	Direct discharge	The pre-coating plant will be positioned in front of the bins when operating on concrete hardstand with stormwater managed in accordance with licenseand infrastructure.
Leaching bitumen / diesel to surface water	Storage and handling of precoated aggregate	Direct discharge	Storage bins for precoated aggregate are covered.

##### 3.1.2 Receptors

In accordance with the *Guideline: Risk Assessment* (DWER 2020), the delegated officer has excluded employees, visitors and contractors of the licence holder 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 (*Guideline: Environmental Siting* (DWER 2020)).

**Table 2: Human and environmental receptors and distance from the premises**

Human receptors	Distance from prescribed activity
Closest residential receptor	Approximately 1,000 metres to the east in Wattle Grove
Industrial premises	adjacent

### 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 in-complete 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 3.

The amended licence L6265/1983/8 that accompanies this report authorises emissions associated with the operation of the premises, i.e. asphalt manufacturing activities.

The conditions in the amended licence have been determined in accordance with *Guideline: Setting Conditions* (DWER 2020).

**Table 3. Risk assessment of potential emissions and discharges from the premises during construction and operation**

Risk Event					Risk rating <sup>1</sup> C = consequence L = likelihood	Licence Holder's controls sufficient?	Conditions <sup>2</sup> of licence	Justification for additional regulatory controls
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Licence Holder's controls				
<b>Construction</b>								
Placement of equipment within the premises	Dust	Air/windborne pathway causing impacts to health and amenity	Residences 1km east	Refer to Table 2	C = Minor L = Rare <b>Low Risk</b>	Y	N/A	N/A
	Noise			Refer to Table 2	C = Slight L = Rare <b>Low Risk</b>	Y	N/A	N/A
<b>Operation</b>								
Operation of pre-coating plant	Dust/odour	Air/windborne pathway causing impacts to health and amenity	Residences 1km east	Refer to Table 2	C = Minor L = Rare <b>Low Risk</b>	Y	Condition 1	Existing conditions on ground storage bins control dust from aggregate.
	Noise	Air/windborne pathway causing impacts to health and amenity	Residences 1km east	Refer to Table 2	C = Slight L = Rare <b>Low Risk</b>	Y	NA	N/A.
	Leaching of bitumen / diesel precoat to ground	Direct discharge to ground / ground water	-	Refer to Table 2	C = Moderate L = Unlikely <b>Medium Risk</b>	Y	Condition 1	A small risk of hydrocarbon contaminated run-off addressed by existing oily water separator on site.

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

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

## 4. Decision

The delegated officer has determined to authorise the installation and operation of the Precision Screens Precoater 6500 equipment at the premises. The delegated officer took into account that the:

- premises is located within an existing industrial area, with sufficient separation to the nearest sensitive receptor (about 1 km east in Wattle Grove);
- equipment and general activities associated with proposed precoating are considered small-scale;
- characteristics of the equipment, materials and the general precoating activity are considered to represent a low risk of emissions and discharges (dust, odour, noise and contaminated stormwater runoff), which are not expected to significantly change the overall risk profile of emissions and discharges from the premises; and
- the licence holder has provided the hourly production rate of the precoater of 110 tonne/hr, noting it does not operate continuously.

The delegated officer considers a change in the required testing frequency of air emissions from the Ciber iNOVA plant from biannual to annual will not significantly increase the risk of impacts from the premises. The delegated officer took into account that:

- monitoring results show that emissions are low, approximately 10% of the licence limit; and
- the intermittent nature of mobile plant operations.

### Licence consolidation

As part of this amendment the delegated officer has consolidated the licence by incorporating changes made under the amendment notices, as summarised in Table 4.

**Table 4: Licences consolidated in this amendment**

Date	Ref number	Summary of changes
28/7/2011	L6265/1983/8	Licence granted.
30/10/2015	W5881/2015/1	Works to allow the processing of RAP on the premises and use of RAP for asphalt manufacture
20/11/2015	L6265/1983/8	Amendment to allow processing and use of RAP on site.
29/04/2016	L6265/1983/8	Expiry date amended to 2/8/2023.
21/03/2017	L6265/1983/8	Amendment Notice 1 allowing the operation of installed wastewater treatment plant.
24/04/2018	L6265/1983/8	Amendment Notice 2 allowing temporary deployment of mobile asphalt plant on site.
27/07/2018	L6265/1983/8	Amendment Notice 3 amending the dates for operation of mobile asphalt plant from Amendment Notice 2.
28/06/2019	L6265/1983/8	Amendment Notice 4 approves use of additional asphalt plant on site increasing production capacity from 250,000 tonnes per annum to 330,000 tonnes per annum.

The obligations of the licence holder have not changed in consolidating the licence. The delegated officer has not undertaken any additional risk assessment of the premises related to previous amendment notices.

In consolidating the licence, the delegated officer 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 licence holder 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 the amended licence are detailed in Section 6.1. 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.

## 5. Consultation

The application was referred to the City of Canning on 19 March 2021, who advised it did not have any comments on the proposal.

The applicant was provided with a draft document on 13 April 2021 and responded on 5 May 2021. Comments and response are listed in Appendix 2 except where there were only minor word changes.

## 6. Conclusion

Based on the assessment in this report, the delegated officer has determined that an amended licence will be granted, subject to conditions commensurate with the determined controls and necessary for administration and reporting requirements.

### 6.1 Summary of amendments

Table 5 provides a summary of the proposed amendments and will act as record of implemented changes. All proposed changes have been incorporated into the amended licence as part of the amendment process.

**Table 5: Summary of licence amendments**

Condition no.	Proposed amendments
1	Inclusion of pre-coater and precoated aggregate storage bins in infrastructure table with requirements to manage run-off and dust.
13	Change to monitoring frequency for emission point A2

**Table 6: Consolidation of licence conditions in this amendment**

Existing condition	Condition summary	Revised licence condition	Conversion notes
N/A	Expiry Date: 02 August 2016	Expiry Date: 02 August 2023	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	Interpretation section,	Revised to current licensing format.
1.1.3	Definitions	Definitions Table 11	Revised to current licensing format.
1.1.4	Australian Standards	Interpretation Section	Revised to current licensing format.
1.1.5	Reference to code of practice	NA	Redundant condition. Removed from licence.
1.2.1	Pollution control and monitoring equipment	N/A	Redundant condition. Adequately covered by

Existing condition	Condition summary	Revised licence condition	Conversion notes
			alternative existing conditions. Deleted from licence.
1.2.2	Recovery and removal of spills	N/A	Redundant condition. Adequately covered by EP (Unauthorised Discharges) Regulations 2004. Deleted from licence.
1.3.1	Production limit	Condition 2	New numbering.
1.3.2 Table 1.3.2	Materials handling and processing	Conditions 5 and 6 and tables 2 and 3.	Revised to current licensing format.
1.3.3	Removal and return of crushing and screening equipment	Condition 4	New numbering
1.3.4 (AN4)	Removal and return of Ciber iNOVA plant	Condition 3	New numbering
2.1.1	Record and investigate exceedances of limits or targets	N/A	Redundant condition. Deleted from licence.
2.2.1 Table 2.2.1	Emission points to air	Condition 8 Table 4	New numbering
2.2.2 Table 2.2.2	Emission limits to air	Condition 9 Table 5	New Numbering.
2.2.3 2.3.1 2.3.2	Process controls for silos and stockpiles	Condition 1 Table 1	New numbering and update to wording format
2.4.1 (Amendment Notice 1)	Discharge to Land	Condition 10 Table 6	New numbering and update to wording format
2.4.1.1 (AN1)	Limits for discharge to land	Condition 11 Table 7	New numbering and update to wording format
3.1.1	Laboratories NATA accredited	Condition 17	New numbering and update to wording format
3.1.2	Biannual monitoring at least 5 months apart	Condition 18	New numbering and update to wording format
3.1.3	Record production and process data during non-continuous monitoring	Condition 12	New numbering
3.1.4	Calibration of monitoring equipment	Condition 13	New numbering
3.1.5	Report when requirements for calibration cannot be met	Condition 14	New numbering
3.2.1 Table 3.2.1	Stack testing	Condition 15 Table 6	New numbering and amended.



Existing condition	Condition summary	Revised licence condition	Conversion notes
3.2.2	Sampling location	Condition 16	New numbering
3.2.3	NATA accreditation	Condition 17	New numbering and update to wording format
3.3.1 (AN1)	Monitoring of discharges to land	Condition 19	New numbering and update to wording format
3.3.2 (AN1)	Monitoring according to a standard and NATA accredited laboratory	Condition 20	New numbering and update to wording format
3.3.3(AN1)	Quarterly sampling	Condition 21	New numbering
4.1.1	Keeping of records	Condition 24 Condition 25	New numbering and update to wording format
4.1.2	Person in charge to be aware of conditions	NA	Redundant condition deleted from licence
4.1.3	Annual Audit Compliance Report	Condition 23	New numbering and update to wording format
4.1.4	Complaints Register	Condition 22	New numbering and update to wording format
4.2.1 Table 5.2.1	Reporting Annual Environmental Report	Condition 26 Table 10	New numbering and update to wording format
4.2.2	Annual Environment Report	NA	Redundant condition deleted from licence
4.3.1	Notifications	Condition 27	New numbering and update to wording format
5.1.1 5.2.1 5.2.2	Approval of works and compliance	NA	Removed by Amendment Notice 1. Redundant conditions deleted from licence
Schedule 1: Maps	Premises map	Schedule 1: Maps	New naming convention, new site plan.

## References

1. Department of Water and Environmental Regulation (DWER) 2020, *Guideline: Risk Assessments*, Perth, Western Australia.
2. DWER 2020, *Guideline: Setting Conditions*, Perth, Western Australia.
3. *Boral Asphalt application for licence amendment*. Tallis Consultants Pty Ltd. November 2020

# Appendix 1: Site layout map



## Appendix 2: Summary of Licence Holder's comments on risk assessment and draft conditions

Condition	Summary of Licence Holder's comment	Department's response
Condition 1 Table 1 Precision Screen Pre-coater 6500	Amend the wording of the condition to better reflect the water management on-site. Possibly contaminated run-off is captured in a sump and pumped to a 10 kilolitre holding tank where it is either tinkered of site or disposed off through the waste water treatment plant.	This wording change has been accepted.
	Suggest that wording say only one precoater will operate on the premises because more than one precoater may be stored at the premises from time to time. When not in use they will be parked with other mobile equipment within the mobile equipment storage area	This wording has been accepted.
Condition 2	Change limit from 180 tonnes per hour to 220 tonnes per hour. The main asphalt plant is capable of operating at 240 tonnes per hour but is expected not to exceed 220 tonnes per hour.	A change in throughput was not part of the amendment application or the current risk assessment. There has been no supporting documentation for the change, the existing throughput is unchanged in the licence.
Condition 5	Add a condition after condition 4 allowing that the pre-coater be removed and returned from time to time on an as needs basis	The addition of this condition has been accepted.
Condition 9 (condition 8 in draft)	Add in the words "when operating on site" because the mobile plant may not operate on the premises in an annual period and the annual testing may be carried out on another site.	A change of this wording is not required especially with the addition of Note 4 to Table 8.
Table 8 Note 4	Request a note 4 with the wording: "Monitoring may be carried out while the Ciber iNova is located and operating within other prescribed premises within Western Australia". The iNova mobile plant may also operate on other licensed premises as required and an annual monitoring will occur at one of these premises.	Note 4 with similar wording has been added.
Condition 21 (condition 22 in draft licence)	Specify quarterly testing will be conducted by a NATA accredited laboratory because every batch is sampled before discharge and tested on the premises. Quarterly NATA testing serving as quality assurance.	

## Appendix 3: Application validation summary

SECTION 1: APPLICATION SUMMARY				
<b>Application type</b>				
Amendment to licence	<input checked="" type="checkbox"/>	Current licence number:	L6265/1983/8	
		Relevant works approval number:		N/A <input type="checkbox"/>
Date application received		2 November 2020		
<b>Applicant and Premises details</b>				
Applicant name/s (full legal name/s)		Boral Resources (W.A.) Ltd		
Premises name		Boral Asphalt Welshpool		
Premises location		90 McDowell Street, WELSHPOOL WA 6106		
Local Government Authority		City of Canning		
<b>Application documents</b>				
HPCM file reference number:		DWERDT359221		
Key application documents (additional to application form):		Email dated 27 November 2020 from Andrew Mack (A1959854) Email dated 1 December 2020 from Tyra Sherriff (DWERDT384190)		
<b>Scope of application/assessment</b>				
Summary of proposed activities or changes to existing operations.		Licence amendment to include pre-coating of aggregate within the premises and to reduce the bi-annual stack test for the mobile asphalt plant to annual stack testing.		
<b>Category number/s (activities that cause the premises to become prescribed premises)</b>				
<b>Table 1: Prescribed premises categories</b>				
Prescribed premises category and description	Assessed production or design capacity	Proposed changes to the production or design capacity (amendments only)		
Category 35: Asphalt manufacturing	330,000 tonnes per annum	-		
Category 61A: Solid waste facility	110,000 tonnes per annum	-		
<b>Legislative context and other approvals</b>				
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	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Ministerial statement No: EPA Report No:		

relevant to the application?		
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 checked="" 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 checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Approval: Expiry date: If N/A explain why?
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: Proclaimed Groundwater Area/Surface Water Area Has Regulatory Services (Water) been consulted? Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Regional office: Swan Avon / Mid-West Gascoyne / Kwinana Peel / North West / South West / Goldfields / South Coast

<p>Is the Premises situated in a Public Drinking Water Source Area (PDWSA)?</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	<p>Name: N/A  Priority: P1 / P2 / P3 / N/A  Are the proposed activities/landuse compatible with the PDWSA (refer to <u>WQPN 25</u>)?  Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/></p>
<p>Is the Premises subject to any other Acts or subsidiary regulations (e.g. <i>Dangerous Goods Safety Act 2004</i>, <i>Environmental Protection (Controlled Waste) Regulations 2004</i>, <i>State Agreement Act xxxx</i>)</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	<p>If Yes include details here.</p>
<p>Is the Premises within an Environmental Protection Policy (EPP) Area?</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	<p>If Yes include details of which EPP(s) here.</p>
<p>Is the Premises subject to any EPP requirements?</p>	<p>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	<p>If Yes, include details here, e.g. Site is subject to SO<sub>2</sub> requirements of Kwinana EPP.</p>
<p>Is the Premises a known or suspected contaminated site under the <i>Contaminated Sites Act 2003</i>?</p>	<p>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>	<p>If Yes include details here.  Classification: possibly contaminated – investigation required (PC–IR) November 11 2020</p>