



Licence Number	L6265/1983/8
Licence Holder	Boral Resources (W.A.) Ltd
ACN	008 686 904
File Number:	DWERVT2698
Premises	Boral Asphalt 90 McDowell Street WELSHPOOL WA 6106 Lot 43 on Plan 3217 Certificate of Title Volume 1798 Folio 792
Date of Amendment	28 June 2019

Amendment

The Chief Executive Officer (CEO) of the Department of Water and Environmental Regulation (DWER) has amended the above Licence in accordance with section 59 of the *Environmental Protection Act 1986* (EP Act) as set out in this Amendment Notice. This Amendment Notice constitutes written notice of the amendment in accordance with section 59B(9) of the EP Act.

Manager, Process Industries Regulatory Services

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

Definitions and interpretation

Definitions

In this Amendment Notice, the terms in Table 1 have the meanings defined.

Table 1: Definitions

Term	Definition
ACN	Australian Company Number
Amendment Notice	refers to this document
Category/ Categories/ Cat.	categories of Prescribed Premises as set out in Schedule 1 of the EP Regulations
CEO	means Chief Executive Officer. CEO for the purposes of notification means: Director General Department Administering the <i>Environmental Protection Act 1986</i> Locked Bag 10 JOONDALUP DC WA 6027 Email: info@dwer.wa.gov.au
Delegated Officer	an officer under section 20 of the EP Act
Department	means the department established under section 35 of the <i>Public Sector Management Act 1994</i> and designated as responsible for the administration of Part V, Division 3 of the EP Act.
DWER	Department of Water and Environmental Regulation
EPA	Environmental Protection Authority
EP Act	<i>Environmental Protection Act 1986 (WA)</i>
EP Regulations	<i>Environmental Protection Regulations 1987 (WA)</i>
m ³	cubic metres
Noise Regulations	<i>Environmental Protection (Noise) Regulations 1997 (WA)</i>

Amendment Notice

This amendment is made pursuant to section 59 of the *Environmental Protection Act 1986* (EP Act) to amend Licence L6265/1983/8 granted to Boral Resources (W.A.) Ltd in respect of its asphalt manufacturing at Welshpool. This notice of amendment is given under section 59B(9) of the EP Act.

Amendment description

On 18 April 2019 the Licence Holder lodged an application to amend its licence seeking approval to construct and operate another asphalt manufacturing plant on site and as such to increase production of the premises from 250,000 tpa to 330,000 tpa. The additional plant (Ciber iNova) is of a modular (mobile) design that can be constructed in a short period of time and is rated for 200 tonnes per hour. The Ciber iNova plant is not intended to be permanently located within the premises but relocated to and from the premises on an as needs basis. As the Licence Holder uses the land within the premises for other operational needs when the Ciber iNova is not located within the premises, the Licence Holder has requested to have two location options within the premises for the Ciber iNova, which are shown on the new Premises Map (A2 and orange).

Regulatory history

Table 2 provides the recent history of instruments issued by the CEO for this premises.

Table 2: History of instruments issued for the premises

Instrument	Issued	Description
L6265/1983/8	27/07/2011	Licence issued (reissue)
W5881/2015/1	30/10/2015	Works Approval for crushing and screening of RAP and its use as a raw material.
L6265/1983/8	20/11/2015	Licence amendment for RAP, wastewater treatment improvement and conversion of the licence to a new format.
L6265/1983/8	29/04/2016	Amendment by notice to change the licence expiry date to 2 August 2023
L6265/1983/8	21/03/2017	Amendment Notice 1: to allow for the discharge of treated wastewater on site
L6265/1983/8	24/04/2018	Amendment Notice 2: to allow for the construction and short term operation of an additional (mobile) asphalt plant.
L6265/1983/8	27/07/2018	Amendment Notice 3: to change the operation period and reporting date from Amendment Notice 2, due to delays of the delivery of the new (mobile) asphalt plant
L6265/1983/8	28/06/2019	Amendment Notice 4: to allow operation of additional (mobile) asphalt plant (Ciber iNova) within the premises and increase annual production from 250,000tpa to 330,000tpa

Development approval from the City of Canning

The Licence Holder stated in the application that the current Development Approval for the site would not prevent the use of the new Ciber iNova on the premises. The Delegated Officer notes that it is the responsibility of the Licence Holder to ensure that necessary approvals from other agencies are acquired if needed and that the issue of this Amendment Notice only provides authorisation under the EP Act to have emissions and/or discharges from the requested changes to the premises.

Location and receptors

Table 3 below lists the relevant sensitive land uses in the vicinity of the Prescribed Premises which may be receptors relevant to the proposed asphalt manufacturing (also shown in Figure 1).

Table 3: Receptors and distance from activity boundary

Residential and sensitive premises	Distance from Prescribed Premises
Residents in Wattle Grove	Approximately 1000m from the premises to the east.

Inspection and recent complaints

The premises were most recently inspected by DWER inspectors on 29 January 2019. The outcome of the inspection was that there were no issues identified.

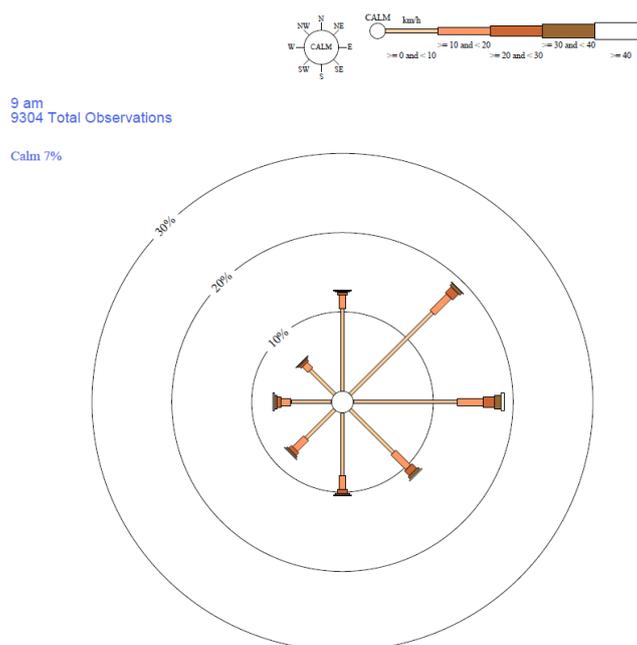
In the last three years there have been no recorded complaints against the premises in DWER's Incidents and Complaints Management System.

Report from Ciber iNova commissioning

Following the issue of Amendment Notice 3, the Licence Holder submitted on 16 October 2018 an email with the production data and a stack test report, as required per Condition 5.4. The report showed that the Ciber iNova had been operating within the premises for 8 days and produced a total of 473 Tonnes of asphalt. On 7 September 2018 a stack test was conducted by Ektimo showing an average particulate emission of 5.1 mg/m³. This results was well below the limit of 50 mg/m³. Following the commissioning of the Ciber iNova it was dismantled and relocated to another prescribed premises within Western Australia.

Premises operations

The asphalt manufacturing operations within the premises is such that the majority of the asphalt manufacturing process occurs in the morning when the wind direction is predominantly from the east (coming from the direction of the nearest sensitive receptors). See the wind rose from the closest Bureau of Meteorology weather station Gosnells, ~6.8km away) below. This reduces the risk of emissions impacting the nearest residential premises.



Source: www.bom.gov.au, accessed on 28 May 2019.

Risk assessment

Tables 4 and 5 below describe the Risk Events associated with the amendment consistent with the *Guidance Statement: Risk Assessments*. Both tables identify whether the emissions present a material risk to public health or the environment, requiring regulatory controls.

Table 4: Risk assessment for mobilisation and demobilisation of the mobile plant

Risk Event					Consequence rating	Likelihood rating	Risk	Reasoning
Source or Activity	Potential emissions	Potential receptors	Potential pathway	Potential adverse impacts				
Mobilisation and demobilisation of the mobile equipment	Noise	Adjacent industrial premises; and residential premises at 1 km.	Air	Amenity impacts	Slight	Rare	Low	The construction involves assembling and disassembling modular (mobile) equipment over relatively short periods of time. The Noise Regulations apply.
	Dust				Slight	Rare	Low	The construction will occur within the premises on hard stand or compacted soil. Sensitive receptors at sufficient distance.

Table 5: Risk assessment for proposed amendments during operation

Risk Event					Consequence rating	Likelihood rating	Risk	Reasoning
Source or Activity	Potential emissions	Potential receptors	Potential pathway	Potential adverse impacts				
Operation of both fixed plant and additional mobile equipment	Dust	Adjacent industrial premises; and residential premises at 1 km.	Air	Amenity impacts	Slight	Rare	Low	<ul style="list-style-type: none"> The premises are located on regulated premises, in an industrial area. The premises are separated by 1,000m to the nearest residential premises. No complaints to date about odour. The Noise Regulations apply. Expected additional emissions from the increased production are not expected to cause a material change to the environmental risk and impacts on the nearest residential premises. Recent site inspection did not identify issues. Commissioning testing for particulate emissions complied with licence limits.
	Noise				Slight	Rare	Low	
	Odour				Slight	Rare	Low	

Decision

The Delegated Officer has granted the Licence Amendment Application subject to conditions.

The conditions have been amended to allow for the Ciber iNova to be operating within the premises. As the initial period of commissioning of the Ciber iNova, as allowed under Amendment Notices 2 and 3, has been completed, the Delegated Officer has also decided to remove these conditions and the related Schedule 3 from the Licence (conditions 5.1 to 5.4 and Schedule 3). To allow for the mobilisation and demobilisation of the Ciber iNova to and from the premises a new condition will be added to authorise this explicitly.

Basis for the Decision

In deciding to grant the application, the Delegated Officer has considered the following:

- the increased throughput can be achieved with the existing plant by increasing its hours of operation (currently operates for 4 to 6 hours each morning);
- no complaint have been recorded against the current operation of the premises;
- the nearest residential premises at 1,000m to the east of the site is bounded by rail freight yards and the Tonkin Highway to the north, as well as, the Roe Highway to the east; and
- if in the event that the operations occurring on site cause unacceptable emissions, the CEO may modify the licence accordingly.

Licence Holder's comments

The Licence Holder was provided with the draft Amendment Notice on 30 May 2019. The Licence Holder did not provide comments within the 21 day period that was given.

Details of the Amendment

1. The table on the Licence is amended by the deletion of the text shown in strikethrough below and the insertion of the red text shown in underline below:

Category number	Category description	Category production or design capacity	Approved Premises production or design capacity
35	Asphalt manufacturing: premises on which hot or cold mix asphalt is produced using crushed or ground rock aggregates mixed with bituminous or asphaltic materials for use at a place or premises other than those premises.	Not Applicable	250,000 <u>330,000</u> tonnes per annual period
61A	Solid waste facility: premises (other than premises within category 67A) on which solid waste produced on other premises is stored, reprocessed, treated or discharged onto land.	1,000 or more tonnes per year	110,000 tonnes per annual period

2. The Licence is amended by the insertion of the following Condition 1.3.4 shown in red underlined text below:

1.3.4 The Licensee is permitted to remove the Ciber iNova asphalt plant from the Premises and relocate it back within the Premises at the locations set out in Schedule 1, on an as needs basis.

3. Table 2.2.1 of Condition 2.2.1 is amended by the insertion of the red text shown in underline below:

Table 2.2.1: Emission points to air			
Emission point reference and location on Map of emission points	Emission point	Emission point height above ground level	Source, including any abatement
A1 (<u>Fixed plant</u>)	Stack	12 m	Drum dryer via baghouse dust collector.
A2 (<u>Mobile plant</u>)	<u>Stack</u>	<u>6 m</u>	<u>Drum dryer via baghouse collector.</u>

4. Table 2.2.2 of Condition 2.2.2 is amended by the insertion of the red text shown in underline below:

Table 2.2.2: Point source emission limits to air			
Emission point reference	Parameter	Limit (including units)^{1,2}	Averaging period
A1 <u>and also A2</u>	PM	50 mg/m ³	Stack Test (Minimum 60 minute average)
	Stack velocity	>12m/s	Stack test (Minimum 30 minute average)

Note 1: All units are referenced to STP dry

Note 2: Concentration units for A1 are referenced to 17% O₂.

5. Table 3.2.1 of Condition 3.2.1 is amended by the insertion of the red text shown in underline below:

Table 3.2.1: Monitoring of point source emissions to air					
Emission point reference	Parameter	Units^{1,3}	Averaging period	Frequency²	Method
A1 <u>and also A2⁴</u>	PM	mg/m ³ g/s	Stack test (Minimum 60 minute average)	Biannual	USEPA Method 5 or USEPA Method 17
	Oxides of nitrogen				USEPA Method 7E
	Carbon monoxide				USEPA Method 10

Note 1: All units are referenced to STP dry

Note 2: Monitoring shall be undertaken to reflect normal operating conditions and any limits or conditions on inputs or production.

Note 3: Concentration units for A1 are referenced to 17% O₂.

Note 4: Annual stack testing may occur at other premises for the mobile plant

6. The Licence is amended by the deletion of the following conditions shown in strikethrough below:

5. Works

- 5.1 The Licensee must construct and operate the works in accordance with the infrastructure table 5.1.1.

Table 5.1.1 Works

Column 1	Column 2
Infrastructure/Equipment	Requirements (construction and operation)
Ciber iNova 2000 asphalt plant	<ul style="list-style-type: none"> • Constructed on hardstand; • Baghouse filter to be designed and constructed such that all air from the dryer is treated and that particulate emissions are less than 50 mg/m³; • Stack of the bag filter is required to have a stack sampling port that is compliant with AS 4323.1; • Produce no more than 1,500 tonnes of asphalt; • Operate for no longer than 6 weeks in total during July, August and September 2018; and • Located as per the maps in Schedule 3.

- 5.2 The Licensee must record the quantity of asphalt produced in each week from the infrastructure listed in Table 5.1.1.
- 5.3 The Licensee must conduct one stack test from infrastructure listed in Table 5.1.1 in accordance with USEPA method 5, measuring the particulate emissions in mg/m³ and g/s at STP dry.
- 5.4 Licensee must submit a report to the CEO by 31 October 2018, detailing the total asphalt produced, the results of the stack testing as per condition 5.3 and the original stack testing report.

7. The Licence is amended by the replacement of the Premises Map in Schedule 1 with the following map and legend:



Legend:
 Green circle A1: baghouse filter stack of fixed asphalt manufacturing plant
 Red circles A2: both optional locations of baghouse filter stack of Ciber iNova plant
 Blue circle L1: discharge point of wastewater from wastewater treatment plant.
 Orange squares: both optional locations of the Ciber iNova plant

Boundary of the premises shown in yellow.

8. The Licence is amended by the deletion of Schedule 3.