



## Application for Licence

### Division 3, Part V *Environmental Protection Act 1986*

---

<b>Licence Number</b>	L9183/2018/2
<b>Applicant</b>	Meteor Stone Pty Ltd
<b>ACN</b>	623 253 770
<b>File Number</b>	DER2018/001603~4
<b>Premises</b>	Meteor Stone Wesco Road NOWERGUP WA 6032  Part of Lot 6 on Diagram 34734 Certificate of Title: Volume 1500 Folio 124 As depicted in Schedule 1 of the licence.
<b>Date of Report</b>	5 November 2020
<b>Status of Report</b>	Final

**A/MANAGER, RESOURCE INDUSTRIES  
REGULATORY SERVICES**

Delegated Officer under section 20 of the *Environmental Protection Act 1986*

## 1. Definitions of terms and acronyms

In this Decision Report, the terms in Table 1 have the meanings defined.

**Table 1: Definitions**

Term	Definition
ACN	Australian Company Number
Applicant	Meteor Stone Pty Ltd
Category/ Categories/ Cat.	Categories of Prescribed Premises as set out in Schedule 1 of the EP Regulations
DWER	Department of Water and Environmental Regulation
EP Act	<i>Environmental Protection Act 1986 (WA)</i>
EP Regulations	<i>Environmental Protection Regulations 1987 (WA)</i>
Noise Regulations	<i>Environmental Protection (Noise) Regulations 1997 (WA)</i>
Prescribed Premises	has the same meaning given to that term under the EP Act.
Premises	refers to the premises to which this Decision Report applies, as specified at the front of this Decision Report
Risk Event	As described in <i>Guidance Statement: Risk Assessment</i>

## 2. Application summary and overview of premises

Meteor Stone Pty Ltd (the Applicant) has applied to renew existing licence L9183/2018/1 which expires on 21 November 2020. Table 2 outlines the prescribed premises activities currently authorised at Meteor Stone Westco Road (the Premises).

**Table 2: Classification of prescribed premises activities**

Classification of Premises	Description	Approved Premises production or design capacity or throughput
Category 12	Category 12: Screening etc. of material: premises (other than premises within category 5 or 8) on which material extracted from the ground is screened, washed, crushed, ground, milled, sized or separated.	60,000 tonnes per annum.
Category 77	Concrete batching or cement products manufacturing: premises on which cement products or concrete are manufactured for use at places or premises other than those premises.	60,000 tonnes per annum.

The most recent annual report confirmed that Category 12 production was 20,354 tonnes and

Category 77 production of 8,503 tonnes over 40 operational calendar days during the 2019 annual period.

### Description of proposed activity

The Applicant operates a reconstituted limestone block manufacturing facility using limestone mined from a quarry within the Premises. The Applicant also purchases limestone from an adjacent quarry however, the adjacent quarry is not part of the Premises and will not be assessed in this report. The adjacent quarry operates under licence L7782/2002/6 that expires on 2 May 2022.

The Premises boundary is shown by the red boundary depicted below in Figure 1.

The Applicant operates a mobile crushing and screening plant and machinery described in Table 3 to prepare material for batching as depicted in Area 1 of Figure 2. All prescribed premises activities occur on the pit floor of a limestone quarry, as shown in Figure 2.

A concrete batching plant is used in the production of reconstituted blocks where limestone is mixed with cement to manufacture the blocks. A block layer is used in the manufacture of reconstituted limestone blocks on a concrete hardstand which acts as a drying area for the blocks. Dry blocks are palletised and transported offsite via trucks which enter and exit through one designated entrance onto Wesco Road.

Dust suppression is managed by use of spray bars fixed to a water cart.

The land is owned by a third party and the Applicant has authority from the landowner to apply for this licence via a valid lease permitting legal access to the land until 31 December 2023.

The limestone extraction activity (quarry) onsite is regulated by the City of Wanneroo through an Extractive Industries Licence (EIL) and planning approval that is valid until 21 November 2024. This Licence will be reissued to match the planning approval term.

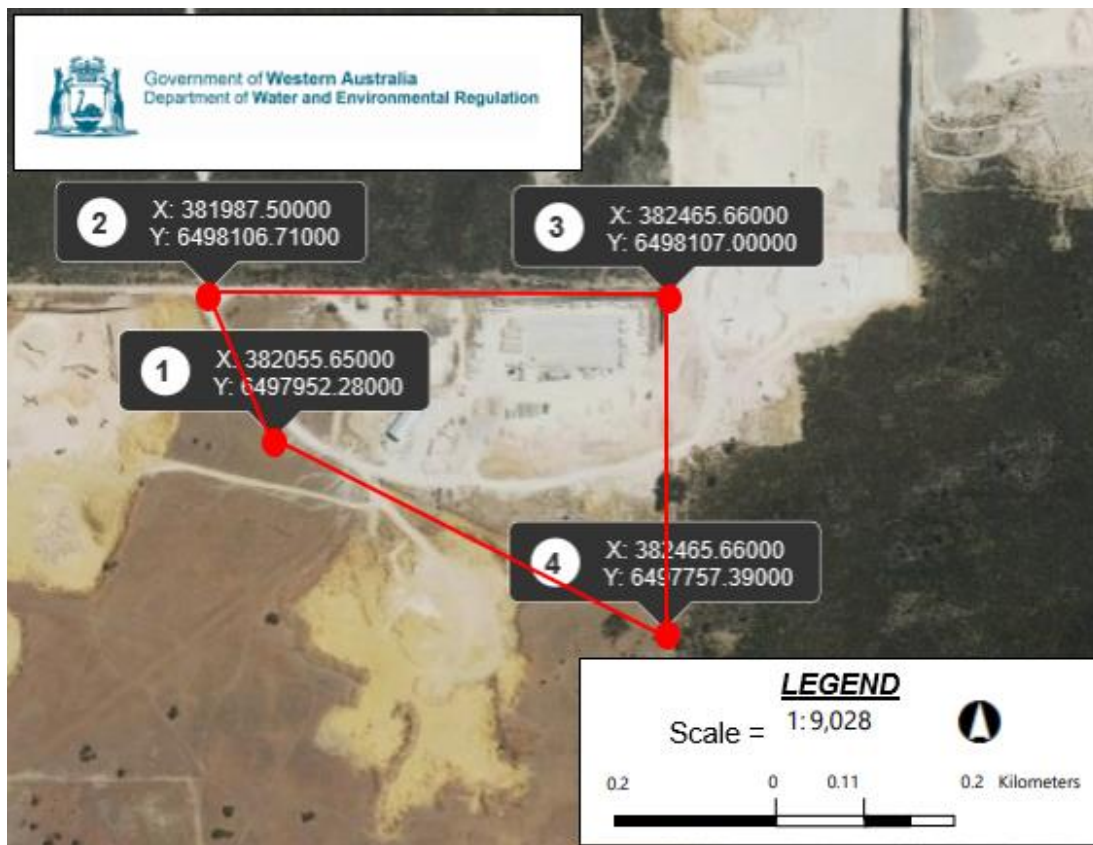
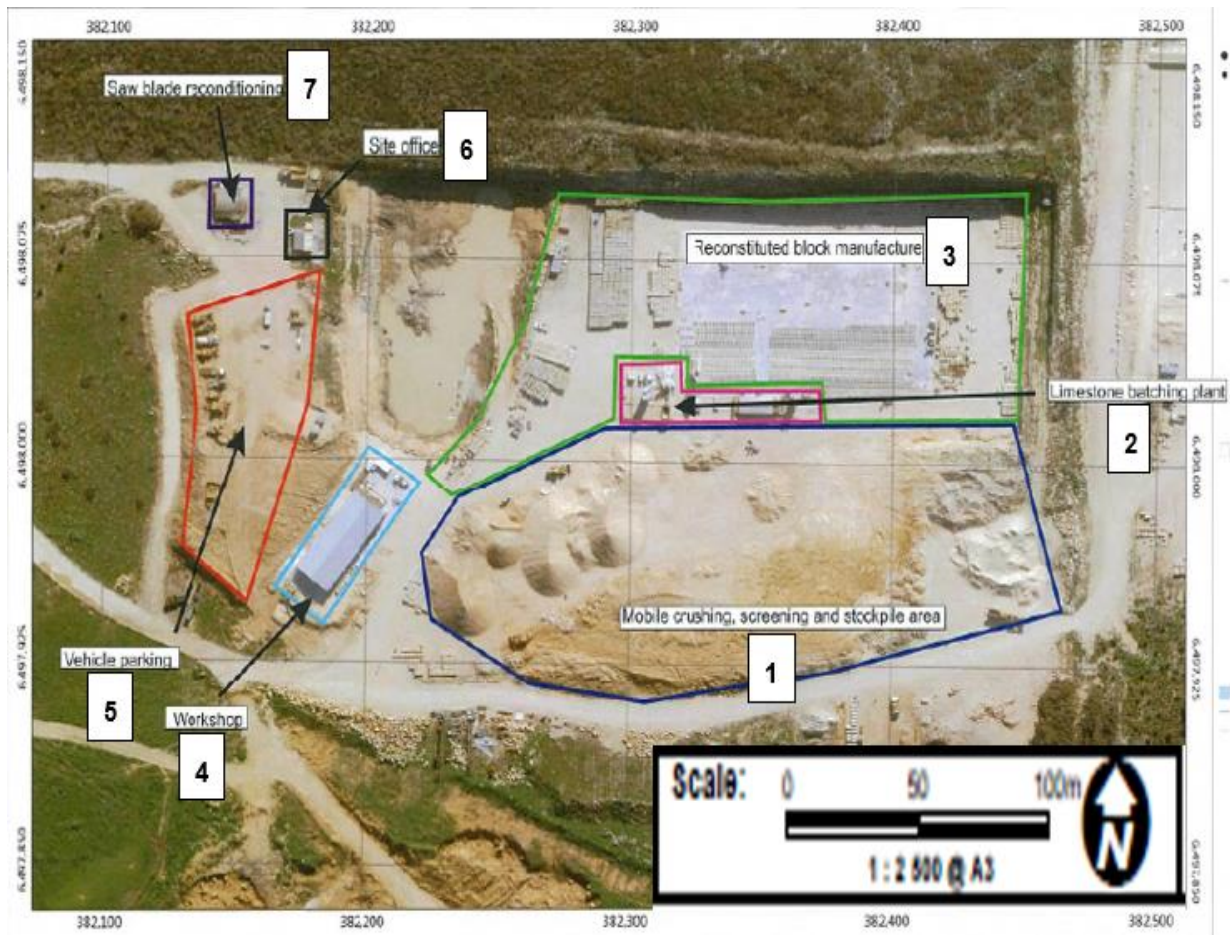


Figure 1: Premises Map



**Figure 2: Site Layout Plan**

**Table 3: Premises plant and machinery list**

	Equipment	Site Layout Plan Reference (Figure 2)
1	Loader - JCB 426HT (2003)	1 and 3
2	Loader - Volvo L110E (2006)	1 and 3
3	Loader - Komatsu WA500 (2005)	1 and 3
4	Bobcat - Toyota Model 30-5SDK8 x 2 (2017)	1 and 3
5	Forklift - Nissan Model Y1F2A25U x 2 (2010)	1 and 3
6	Dump Truck - Hitachi AH400-D 6x6 (2003)	1
7	Water Truck - International Water Truck (1991)	Mobilized inside the Premises when required
8	Crusher – Rotary Kleeman	1
9	Crusher – Mobirex 110Z	1
10	Screen - 3-way split power screen,	1
11	Screen - Tesab TS 2600	1
12	Screen - x1 20-meter single stacker	1
13	Screen - x1 Single stacker, Edge TS80	1

	Equipment	Site Layout Plan Reference (Figure 2)
14	Bulldozer - Caterpillar D10	1

### 3. Legislative context and other approvals

**Table 4: Legislative approvals**

Legislation	Number	Approval
<i>Planning and Development Act 2005</i>	DA2014/1733 Expires 21 November 2024.	Planning approval granted by the City of Wanneroo on 21/11/2014 for 2 lots of 5 year terms until 21/11/2024.
<i>Local Government Act 1995</i>	In accordance with DA2014/1733 (20/225098) Expires 21 November 2024.	Extractive Industry Licence (No. 2014/1733) granted 21/11/2014 for 2 lots of 5 year terms.

### 4. Emissions, pathways and receptors

#### 4.1 Emissions

The potential for emissions to impact on sensitive receptors has been assessed in accordance with the Department's Regulatory and Risk Frameworks. The key emissions considered in this report are **dust and noise** from activities including vehicle movements, processing and storage of materials and the reconstitution of extracted materials into limestone blocks.

#### 4.2 Pathways

As dust and noise are considered potential emissions, the prevailing wind direction has been considered. Using annual data from the Bureau of Meteorology's Gingin Aero station (station number 009178) the prevailing wind is generally from the east at 9.00 am and the south west at 3.00 pm.

#### 4.3 Receptors

Risk is assessed as a combination of emission sources, the proximity and sensitivity of receptors to those emission sources, and any pathways that can allow the emission to reach and potentially impact on the receptor. The risk assessment in Section 6 considers these receptors in the context of emissions and potential pathways. Table 5 outlines the sensitive receptors that are in proximity of the premises.

**Table 5: Receptor and distance from primary activity**

Residential and sensitive premises	Distance from Prescribed Premises
Northsands Resources (Industrial Premises – Licence L7782/2002/6 granted for prescribed premises categories 12, 13, 62, 63 and 67A)	Immediately adjacent, west of Premises. This receptor shares Lot 6 with the Applicant.
Residential premises	Approximately 700m south of Prescribed activity.
Environmental receptors	Approximate distance from Prescribed Premises
Bushforever area - Site 136	1.3km north-east of prescribed premises boundary.

Priority Ecological Community	400m south-west of prescribed premises boundary.
Public Drinking Water Source Area	1.9km south-west of prescribed premises boundary.
Resource Enhancement Wetland	1.3km south-west of prescribed premises boundary.
Groundwater	Depth to groundwater encountered at approximately 56.5 m below ground level (Perth Groundwater Map).

## 5. Risk Criteria

During this assessment each risk event will be determined as per DWER Guidance Statement: Risk Assessment dated February 2017. The assessment indicated in Table 6 below will be applied to determine an overall risk rating of either Low, Medium, High and Extreme for each risk event.

**Table 6: Risk event rating**

Likelihood	Consequence				
	Slight	Minor	Moderate	Major	Severe
Almost Certain	Medium	High	High	Extreme	Extreme
Likely	Medium	Medium	High	High	Extreme
Possible	Low	Medium	Medium	High	Extreme
Unlikely	Low	Medium	Medium	Medium	High
Rare	Low	Low	Medium	Medium	High

## 6. 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 Guidance Statement: Risk Assessments (DER 2017).

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 key emissions and associated actual or likely pathway during premises operation which have been considered in this Decision Report are detailed in Table 7 below. Table 7 also details the proposed control measures the applicant has proposed to assist in controlling these emissions, where necessary.

**Table 7: Risk assessment – operation**

Risk Event					Consequence rating	Likelihood rating	Risk	Reasoning	Regulatory controls (refer to conditions of the granted instrument)
Source or Activity	Potential emissions	Potential receptors	Potential pathway and impact	Applicant controls					
<p>Vehicle movements;</p> <p>Processing (crushing/ screening/ storage) of material;</p> <p>Construction of limestone products</p>	Noise	<p>Resident located approximately 700m south.</p> <p>Prescribed Premises immediately adjacent.</p>	<p>Migration of emission through air/wind causing impacts to human health and amenity</p>	<p>Maintain equipment in good condition, and shutting down equipment when not in use.</p> <p>Vehicles limited to 15km/hour speed limit within the Premises.</p> <p>All screening to occur within the lowest point of the operations quarry floor.</p>	Moderate	Possible	Medium	<p>Noise emissions may cause mid-level impact to amenity but not exceed the noise limits.</p> <p>Given the proximity to receptors and location within the prevailing wind direction, mid-level impacts to amenity could occur on some occasions.</p>	<p>All equipment will be required to be maintained in good working order.</p> <p>Crusher and screener to be loaded from the lowest possible height.</p> <p>Vehicle speed limited to 15km/hour within the operational area and on haulage roads.</p> <p>All screening to occur at the lowest point of the quarry floor.</p> <p>Limited times for daily operations to occur.</p> <p>The Delegated Officer has determined that noise emissions are otherwise appropriately regulated by the general provisions of the <i>Environmental Protection Act 1986</i> (EP Act), and through the <i>Environmental Protection (Noise) Regulations 1997</i> (Noise Regulations).</p> <p>Conditions 1, 2, 3, 4 and 5 will be included on the renewed licence.</p>

Risk Event					Consequence rating	Likelihood rating	Risk	Reasoning	Regulatory controls (refer to conditions of the granted instrument)
Source or Activity	Potential emissions	Potential receptors	Potential pathway and impact	Applicant controls					
Vehicle movements; Processing (crushing/screening/storage) of material; Construction of limestone products.	Dust	Resident located approximately 700m south.  Prescribed Premises - immediately adjacent.	Migration of emission through air/wind causing impacts to health and amenity	A dedicated water truck is to be retained on site for the wetting down of roads, material stockpiles and other dust suppression activities.  The access road is sealed and maintained.  Loads on trucks that have the potential to generate dust are required to be covered or wetted down.	Moderate	Possible	Medium	Dust emissions may cause mid-level impacts to amenity.  Given the proximity to receptors and location within the prevailing wind direction, mid-level impacts could occur at some time.	Restrict hours of operation from 6am to 5pm Monday to Saturday excluding public holidays.  All vehicles on the Premises should operate at speeds of less than 15km/h throughout the Premises.  Materials must be loaded from the lowest possible height and use a series of sprays at dust emission points to prevent fugitive dust from crushing of materials.
		Bushforever area site 136  Priority Ecological Community	Migration of emission through air/wind causing impacts to vegetation by potentially suppressing photosynthetic functions.	Locating mobile plant and stockpiles in sheltered area at lowest point to provide natural barrier.  Monitoring weather conditions and being prepared to increase the use of water sprays when necessary.  Delaying certain activities until weather conditions are less likely to increase dust emissions.	Slight	Rare	Low	Although these receptors are at times in the location of the prevailing wind direction, the separation distances and Applicant's controls will generally be sufficient at mitigating emissions.	Water cart used to maintain stockpiles in damp state to prevent dust lift off. Must be capable of complete coverage of stockpiles.  Crushing and screening plants to be located within area protected by natural walls of the quarry.  Condition 1, 2, 3, 4 & 5 will be included on the renewed licence.



## 7. Consultation

Method	Comments received	DWER response
Application advertised on DWER website on 27/7/2020 with submissions closing 20/08/2020	A comment from the Landowner regarding the lease expiry details completed on Meteor Stone's application form. The application stated that the lease had no set expiry date. The Landowner confirmed that the lease ceases on 31/12/2023.	During assessment DWER requested a copy of the lease from the Applicant. The current lease agreement clarifies its expiry will occur on 31/12/2023.  The new licence expiry end date will be aligned with the Extractive Industries Licence (EIL) expiry date of 21/11/2024, which is after the land access lease expires.  If the Applicant intends to operate beyond 31/12/2023, a legal access lease will need to be obtained for beyond this date.
Local Government Authority advised of proposal on 3/9/2020.	No response received	N/A
Department of Mines, Industry Regulation and Safety (DMIRS) advised of proposal on 3/09/2020.	DMIRS replied on 29/09/2020 stating this site is not regulated by DMIRS and therefore provide no comment. (A1938800)	N/A
Community consultation, letters sent to 2 stakeholders have direct interest on 3/09/2020	No comments received by 2/10/2020.	N/A
Applicant referred draft documents on 3/11/2020.	Comments received and request to waiver the consultation period on 3/11/2020.	N/A

## 8. Applicant's comments

The Applicant was provided with the draft Decision Report and draft Licence renewal on 3 November 2020. The Applicant provided no comments and waived the remaining comments period on 3 November 2020.

## 9. Conclusion

This assessment of the risks of activities on the premises has been undertaken with due consideration of a number of factors, including the documents and policies specified in this decision report (summarised in Appendix 1).

Based on this assessment, it has been determined that the renewed Licence will be granted subject to conditions commensurate with the determined controls and necessary for administration and reporting requirements.

DWER notes that it may review the appropriateness and adequacy of controls at any time and that, following a review, DWER may initiate amendments to the approval under the EP Act.

## Appendix 1: Key documents

Document title	Availability
Application for renewal of Licence – Meteor Stone Pty Ltd – dated 14 July 2020.	DWER records DWERDT307839
Meteor Stone Lot 6 & 7 Management Plan	DWER record A1914342
Licence Application supporting documents	DWER record A1914343
Meteor Stone Deed with Owner	DWER record A1928105
Meteor Stone Extension of Development Approval to 21 November 2024	DWER record A1928107
Meteor Stone signed agreement extension	DWER record A1928107
DWER, June 2019. <i>Guideline: Industry Regulation Guide to Licensing</i> . Department of Water and Environmental Regulation, Joondalup.	accessed at <a href="http://www.dwer.wa.gov.au">www.dwer.wa.gov.au</a>
DWER, 22 April 2020 <i>Internal Work Instruction - COVID-19 Licensing Position</i> . Department of Water and Environmental Regulation, Regulatory Services, Industry Regulation	
DER, October 2015. <i>Guidance Statement: Setting conditions</i> . Department of Environment Regulation, Perth.	
DER, August 2016. <i>Guidance Statement: Licence duration</i> . Department of Environment Regulation, Perth.	
DER, February 2017. <i>Guidance Statement: Risk Assessments</i> . Department of Environment Regulation, Perth.	
DWER, June 2019. <i>Guideline: Decision Making</i> . Department of Water and Environmental Regulation, Joondalup.	
DER, November 2016. <i>Guidance Statement: Environmental Siting</i> . Department of Environment Regulation, Perth	
DER, August 2016. <i>Guideline: Annual Audit Compliance Report</i> . Department of Environment Regulation, Perth	