



Licence number	L4414/1968/12
Licence holder	Hanson Construction Materials Pty Ltd
ACN	009 679 734
Registered business address	Level 6, 35 Clarence Street SYDNEY NSW 2000
DWER file number	DER2017/001316
Duration	30/09/2020 to 30/09/2025
Date of issue	24/06/2020
Premises details	Herne Hill/Red Hill Quarry 945 Toodyay Rd RED HILL WA 6056 Being Lot 11 on Plan 3047 as defined by the coordinates in Schedule 1

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>)	Assessed production / design capacity
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.	2 000 000 tonnes per annual period

This licence is granted to the licence holder, subject to the attached conditions, on 24 June 2020, by:

Lauren Fox

/MANAGER RESOURCE INDUSTRIES

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

Introduction

This Introduction is not part of the licence conditions.

DWER's industry licensing role

The Department of Water and Environment Regulation (DWER) is a government department for the state of Western Australia in the portfolio of the Minister for Environment. DWER's purpose is to advise on and implement strategies for a healthy environment for the benefit of all current and future Western Australians.

DWER has responsibilities under Part V of the *Environmental Protection Act 1986* (the Act) for the licensing of prescribed premises. Through this process DWER regulates to prevent, control and abate pollution and environmental harm to conserve and protect the environment. DWER also monitors and audits compliance with works approvals licence conditions, takes enforcement action as appropriate and develops and implements licensing and industry regulation policy.

Licence requirements

This licence is issued under Part V of the Act. Conditions contained within the licence relate to the prevention, reduction or control of emissions and discharges to the environment and to the monitoring and reporting of them.

Where other statutory instruments impose obligations on the Premises/Licence Holder the intention is not to replicate them in the licence conditions. You should therefore ensure that you are aware of all your statutory obligations under the Act and any other statutory instrument. Legislation can be accessed through the State Law Publisher website using the following link: <http://www.slp.wa.gov.au/legislation/statutes.nsf/default.html>

For your Premises relevant statutory instruments include but are not limited to obligations under the:

- *Environmental Protection (Unauthorised Discharges) Regulations 2004* – these Regulations make it an offence to discharge certain materials such as contaminated stormwater into the environment other than in the circumstances set out in the Regulations.
- *Environmental Protection (Controlled Waste) Regulations 2004* - these Regulations place obligations on you if you produce, accept, transport or dispose of controlled waste.
- *Environmental Protection (Noise) Regulations 1997* – these Regulations require noise emissions from the Premises to comply with the assigned noise levels set out in the Regulations.

You must comply with your licence. Non-compliance with your licence is an offence and strict penalties exist for those who do not comply.

Licence holders are also reminded of the requirements of section 53 of the Act which places restrictions on making certain changes to prescribed premises unless the changes are in accordance with a works approval, licence, closure notice or environmental protection notice.

Licence fees

If you have a licence that is issued for more than one year, you are required to pay an annual licence fee prior to the anniversary date of issue of your licence. Non-payment of annual licence fees will result in your licence ceasing to have effect meaning that it will no longer be valid and you will need to apply for a new licence for your Premises.

Ministerial conditions

If your Premises has been assessed under Part IV of the Act you may have had conditions imposed by the Minister for Environment. You are required to comply with any conditions imposed by the Minister.

Premises description and Licence summary

Hanson Construction Materials Pty Ltd (Hanson) operates Red Hill Quarry (quarry), extracting hard rock from the Red Hill pit. The quarry lies within an area of the Darling Scarp on the eastern outskirts of the Perth Metropolitan Area. The quarry and associated infrastructure are located on Lot 11 Toodyay Road between Susannah Brook and Toodyay Road. The quarry was opened and brought into production in 1998. The lot is located in the City of Swan and covers an area of 800 hectares.

Hanson has been operating at Lot 11 since 1963, currently as the Red Hill Pit and previously as the Herne Hill Pit. The Herne Hill Quarry (located to the south west of Red Hill Quarry within the Premises boundary) has not been operated since 1998 and has been retained pending decisions on future land use.

The Red Hill Quarry was granted approval to be constructed and operated by the Minister for the Environment on 4 December 1991, in Ministerial Statement 199. An extension to the Red Hill Quarry to the north and west was approved by the Minister on 9 October 2012 in Ministerial Statement 912.

The quarry extracts and processes granite and diorite. Product stockpiles are retained on site. The main emissions from the quarrying activities are dust, noise and potential impact to surface water from site run-off. Dust monitoring is carried out visually and directional dust collectors allow for the analysis of dust and verification of Hanson's dust mitigations methods. These include regular watering of all roads, sprinkler systems in the stockpile areas and automatic water sprays on the crushers. Noise sources on site include drilling and blasting, crushing and screening and transport movements. Plant is fitted with shields or noise suppression devices and trucks are restricted to designated roads. Blasts are designed and monitored by consultants to ensure they meet the requirements of the Environmental Protection (Noise) Regulations 1997.

Susannah Brook traverses through the Premises from east to west. A number of other water courses/ drainage lines are located on the Premises and also drain to the west including Strelly Brook which feeds into a tributary of Jane Brook. Two water storage dams, the north water storage dam and the south west storage dam are located on the Premises. These dams collect stormwater run-off and also provide water for dust suppression. No water discharges occur from the south west storage dam. The north water dam overflows in times of high rainfall to Susannah Brook. A surface water monitoring program and management plan is in place under Ministerial Statement 199 to monitor and manage the water quality of these discharges.

Licence history

The licence was previously re-issued in 2015 to include a new licence template and to include an increase to the processing capacity authorised under category 12 and minor corrections.

Amendment 2020

The 2020 amendment is limited to an extension of the licence expiry date by a period of five years to 30 September 2025. No obligations of the licence holder have changed.

A list of the most recent instruments and the summary of the changes are below:

Instrument log		
Date	Instrument number	Summary of changes
01/10/2010	L4414/1968/11	Licence re-issue
24/09/2015	L4414/1968/12	Licence re-issue; increase to premises capacity
24/06/2020	L4414/1968/12	DWER initiated Licence amendment to extend expiry date to 30 September 2025, updates to definitions, update to premises' correct address and the removal of redundant conditions.

END OF INTRODUCTION

Licence conditions

The licence holder must ensure that the following conditions are complied with:

1 General

1.1 Interpretation

1.1.1 In the Licence, definitions from the *Environmental Protection Act 1986* apply unless the contrary intention appears.

1.1.2 For the purposes of this Licence, unless the contrary intention appears:

'ACN' means Australian Company Number;

'AACR' the abbreviation for Annual Audit Compliance Report which is a report submitted in a format approved by the CEO (relevant guidelines and templates may be available on the Department's website;

'Act' means the *Environmental Protection Act 1986*;

'Annual Period' means the inclusive period from 1 January until 31 December in the same year;

'AS/NZS 5667.1' means the Australian Standard AS/NZS 5667.1 *Water Quality – Sampling – Guidance of the Design of sampling programs, sampling techniques and the preservation and handling of samples*;

'AS/NZS 5667.4' means the Australian Standard AS/NZS 5667.4 *Water Quality – Sampling – Guidance on sampling from lakes, natural and man-made*;

'AS/NZS 5667.6' means the Australian Standard AS/NZS 5667.6 *Water Quality – Sampling – Guidance on sampling of rivers and streams*;

'AS/NZS 5667.10' means the Australian Standard AS/NZS 5667.10 *Water Quality – Sampling – Guidance on sampling of waste waters*;

‘averaging period’ means the time over which a limit is measured or a monitoring result is obtained;

‘CEO’ means Chief Executive Officer of the Department of Water and Environment Regulation;

‘CEO’ for the purposes of notification means:

Director General
Department Administering the *Environmental Protection Act 1986*
Locked Bag 10
JOONDALUP DC WA 6919
info@dwer.wa.gov.au;

‘Department’ means the department established under section 35 of the *Public Sector Management Act 1994* (WA) and designated as responsible for the administration of the EP Act, which includes Part V Division 3;

‘Discharge’ has the same meaning given to that term under the EP Act;

‘Dust Management Plan’ means the Hanson Construction Materials (2013) *Dust Management Plan – Red Hill Quarry*, version 2.05, 22 March 2013;

‘DWER’ the abbreviation for Department of Water and Environmental Regulation;

‘environmentally hazardous material’ means material (either solid or liquid raw materials, materials in the process of manufacture, manufactured products, products used in the manufacturing process, by-products and waste) which if discharged into the environment from or within the premises may cause pollution or environmental harm;

‘Emission’ has the same meaning given to that term under the EP Act;

‘EP Act’ the abbreviation for Environmental Protection Act 1986 (WA);

‘EP Regulations’ the abbreviation for Environmental Protection Regulations 1987 (WA);

‘Existing licence’ the licence issued under Part V, Division 3 of the EP Act and in force prior to the commencement of and during this amendment;

‘Fugitive emissions’ means all emissions not arising from point sources;

‘Licence’ means this Licence numbered L4414/1968/12 and issued under the Act;

‘Licence Holder’ means Hanson Construction Materials Pty Ltd;

‘NATA’ means the National Association of Testing Authorities, Australia;

‘NATA accredited’ means in relation to the analysis of a sample that the laboratory is NATA accredited for the specified analysis at the time of the analysis;

‘normal operating conditions’ means any operation of a particular process (including abatement equipment) excluding start-up, shut-down and upset conditions, in relation to stack sampling or monitoring;

‘(Prescribed) Premises’ refers to the premises to which this licence amendment applies, as specified at the front of this Licence amendment and as in Schedule 1 – Premises Map;

‘Revised Licence’ means this amended (amalgamated) Licence issued under Part V, Division 3 of the EP Act, with changes that correspond to the assessment outlined in this;

‘Schedule 1’ means Schedule 1 of this Licence unless otherwise stated;

‘Schedule 2’ means Schedule 2 of this Licence unless otherwise stated; and

‘spot sample’ means a discrete sample representative at the time and place at which the sample is taken.

- 1.1.3 Any reference to an Australian or other standard in the licence means the relevant parts of the standard in force from time to time during the term of this licence.
- 1.1.4 Any reference to a guideline or code of practice in the licence means the version of that guideline or code of practice in force from time to time, and shall include any amendments or replacements to that guideline or code of practice made during the term of this licence.
- 1.1.5 Nothing in the licence shall be taken to authorise any emission that is not mentioned in the licence, where the emission amounts to:
- (a) pollution;
 - (b) unreasonable emission;
 - (c) discharge of waste in circumstances likely to cause pollution; or
 - (d) being contrary to any written law.

1.2 General conditions

- 1.2.1 The licence holder shall operate and maintain all pollution control and monitoring equipment to the manufacturer's specification or any relevant and effective internal management system.
- 1.2.2 The licence holder shall immediately recover, or remove and dispose of spills of environmentally hazardous materials outside an engineered containment system.

1.3 Premises operation

- 1.3.1 The licence holder shall ensure that waste material is only stored and/or treated within vessels or compounds provided with the infrastructure detailed in Table 1.3.1.

Table 1.3.1: Containment infrastructure		
Storage vessel or compound	Material	Requirements
North Water Storage Dam	Site run-off/ Stormwater	None specified
South West Water Storage Dam	Site run-off/ Stormwater	

- 1.3.2 The licence holder shall ensure that the drainage on the Premises is managed such that all contaminated stormwater generated on the Premises is retained on the Premises.
- 1.3.3 The licence holder shall ensure that vehicle washdown areas are equipped with oil/water interceptors and provisions to ensure detergent or solvent contaminated waters are retained on the Premises.

2 Emissions

2.1 General

- 2.1.1 The licence holder shall record and investigate the exceedance of any descriptive or numerical limit specified in any part of section 2 of this licence.

2.2 Point source emissions to surface water

- 2.2.1 The licence holder shall ensure that where waste is emitted to surface water from the emission points in Table 2.2.1 and identified on the map of emission points in Schedule 1 it is done so in accordance with the conditions of this licence.

Table 2.2.1: Emission points to surface water

Emission point reference and location on map of emission points	Description	Source including abatement
L1	North Water Storage Dam overflow discharge to Susannah Brook	Stormwater via settlement/retention dam

2.3 Fugitive emissions

2.3.1 The licence holder must ensure fugitive dust emissions are managed in accordance with the parts of the document specified in Table 2.3.1.

Table 2.3.1: Management Plans

Management Plan Reference	Parts	Date of Document
Dust Management Plan – Red Hill Quarry	Sections 3.4 – 3.6	22/03/2013 Version 2.05

2.4 Noise/Vibration

2.4.1 The licence holder shall manage emissions such that they do not cause an exceedance of the limits in Table 2.4.1.

Table 2.4.1: Noise/Vibration Emission limits

Monitoring point reference	Parameter	Limit (including units)	Reference period
Blast monitoring site at eastern end of William Street, 2.4km east of the Premises	Peak particle velocity	10 mm/sec	Any single blast
		Not more than one blast shall exceed 5 mm/sec	Any 10 consecutive blasts (regardless of interval between blasts)

3 Monitoring

3.1 General monitoring

3.1.1 The licence holder shall ensure that:

- all water samples are collected and preserved in accordance with AS/NZS 5667.1;
- all surface water sampling is conducted in accordance with AS/NZS 5667.4, AS/NZS 5667.6 or AS/NZS 5667.9 as relevant; and
- all laboratory samples are submitted to and tested by a laboratory with current NATA accreditation for the parameters being measured.

3.1.2 The licence holder shall ensure that monthly monitoring is undertaken at least 15 days apart.

3.1.3 The licence holder shall record production or throughput data and any other process parameters relevant to any non-continuous or CEMS monitoring undertaken.

3.1.4 The licence holder shall ensure that all monitoring equipment used on the Premises to comply with the conditions of this licence is calibrated in accordance with the manufacturer's specifications and the requirements of the licence.

3.1.5 The licence holder shall, where the requirements for calibration cannot be practicably met, or a discrepancy exists in the interpretation of the requirements, bring these issues to the attention of the CEO accompanied with a report comprising details of any modifications to the methods.

3.2 Ambient environmental quality monitoring

3.2.1 The licence holder shall undertake the monitoring in Tables 3.2.1 and 3.2.2 according to the specifications in that table and record and investigate results that do not meet any limit specified.

Table 3.2.1: Monitoring of ambient surface water quality

Monitoring point reference and location	Parameter	Limit	Units	Averaging period	Frequency
W1, W3, W4, W5, W6	Total suspended solids (TSS)	-	mg/L	Spot sample	Monthly (July – October)
	Total dissolved solids	-	mg/L		
	Chloride	-	mg/L		
	pH	-	-		
	Oil & Grease	-	mg/L		
W2	Total suspended solids	TSS at site W1 + 80	mg/L		
	Total dissolved solids	-	mg/L		
	Chloride	-	mg/L		
	pH	-	-		
	Oil & Grease	-	mg/L		

Table 3.2.2 Monitoring of ambient noise/vibration quality

Monitoring point reference	Parameter	Units	Reference period	Frequency
Blast monitoring site at eastern end of William Street, 2.4km east of the Premises	Air-Blast	dB	For each blast	
	Peak particle velocity	mm/sec		

4 Information

4.1 Records

- 4.1.1 All information and records required by the licence holder shall:
- (a) be legible;
 - (b) if amended, be amended in such a way that the original and subsequent amendments remain legible or are capable of retrieval;
 - (c) except for records listed in 5.1.1(d) be retained for at least 6 years from the date the records were made or until the expiry of the licence or any subsequent licence; and
 - (d) for those following records, be retained until the expiry of the licence and any subsequent licence:
 - (i) off-site environmental effects; or
 - (ii) matters which affect the condition of the land or waters.
- 4.1.2 The licence holder shall ensure that:
- (a) any person left in charge of the Premises is aware of the conditions of the licence and has access at all times to the licence or copies thereof; and
 - (b) any person who performs tasks on the Premises is informed of all of the conditions of the licence that relate to the tasks which that person is performing.
- 4.1.3 The licence holder shall complete an Annual Audit Compliance Report indicating the extent to which the licence holder Licensee has complied with the conditions of the licence, and any previous licence issued under Part V of the Act for the Premises for the previous annual period.
- 4.1.4 The licence holder shall implement a complaints management system that as a minimum, records the number and details of complaints received concerning the environmental impact of the activities undertaken at the Premises and any action taken in response to the complaint.

4.2 Reporting

- 4.2.1 The licence holder shall submit to the CEO an Annual Environmental Report by the 1 February each year. The report shall contain the information listed in Table 4.2.1 in the format or form specified in that table.

Table 4.2.1: Annual Environmental Report		
Condition or table (if relevant)	Parameter	Format or form ¹
-	Summary of any failure or malfunction of any pollution control equipment and any environmental incidents that have occurred during the annual period and any action taken	None specified
-	Annual throughput recorded in tonnes	Tonnes per annum

Table 2.3.1	Particulates, management actions	None specified
Table 2.4.1, 3.2.2	Air-blast, peak particle velocity (blast monitoring data)	None specified
Table 3.2.1	Total suspended solids, total dissolved solids, chloride, pH, oil & grease	None specified
4.1.3	Compliance	Annual Audit Compliance Report (AACR) ¹
4.1.4	Complaints summary	None specified

Note 1: Forms are available from DWER website at https://www.der.wa.gov.au/images/documents/our-work/licences-and-works-approvals/aacr/IR-F14_AACR_Form_v3.docx

4.2.2 The licence holder shall ensure that the Annual Environmental Report also contains:

- (a) any relevant process, production or operational data recorded under Condition 3.1.3; and
- (b) an assessment of the information contained within the report against previous monitoring results and licence limits.

4.2.3 The licence holder shall submit the information in Table 4.2.2 to the CEO according to the specifications in that table.

Table 4.2.2: Non-annual reporting requirements				
Condition or table (if relevant)	Parameter	Reporting period	Reporting date (after end of the reporting period)	Format or form
-	Copies of original monitoring reports submitted to the licence holder by third parties	Not Applicable	Within 14 days of the CEO's request	As received by the licence holder from third parties

4.3 Notification

4.3.1 The licence holder shall ensure that the parameters listed in Table 5.3.1 are notified to the CEO in accordance with the notification requirements of the table.

Table 5.3.1: Notification requirements			
Condition or table (if relevant)	Parameter	Notification requirement ¹	Format or form ²
2.1.1	Breach of any limit specified in the licence	Part A: As soon as practicable but no later than 5pm of the next usual working day. Part B: As soon as practicable	N1 ²

3.1.5	Calibration report	As soon as practicable.	None specified
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Note 1: Notification requirements in the Licence shall not negate the requirement to comply with s72 of the Act

Note 2: Forms are in Schedule 2

Schedule 1: Maps

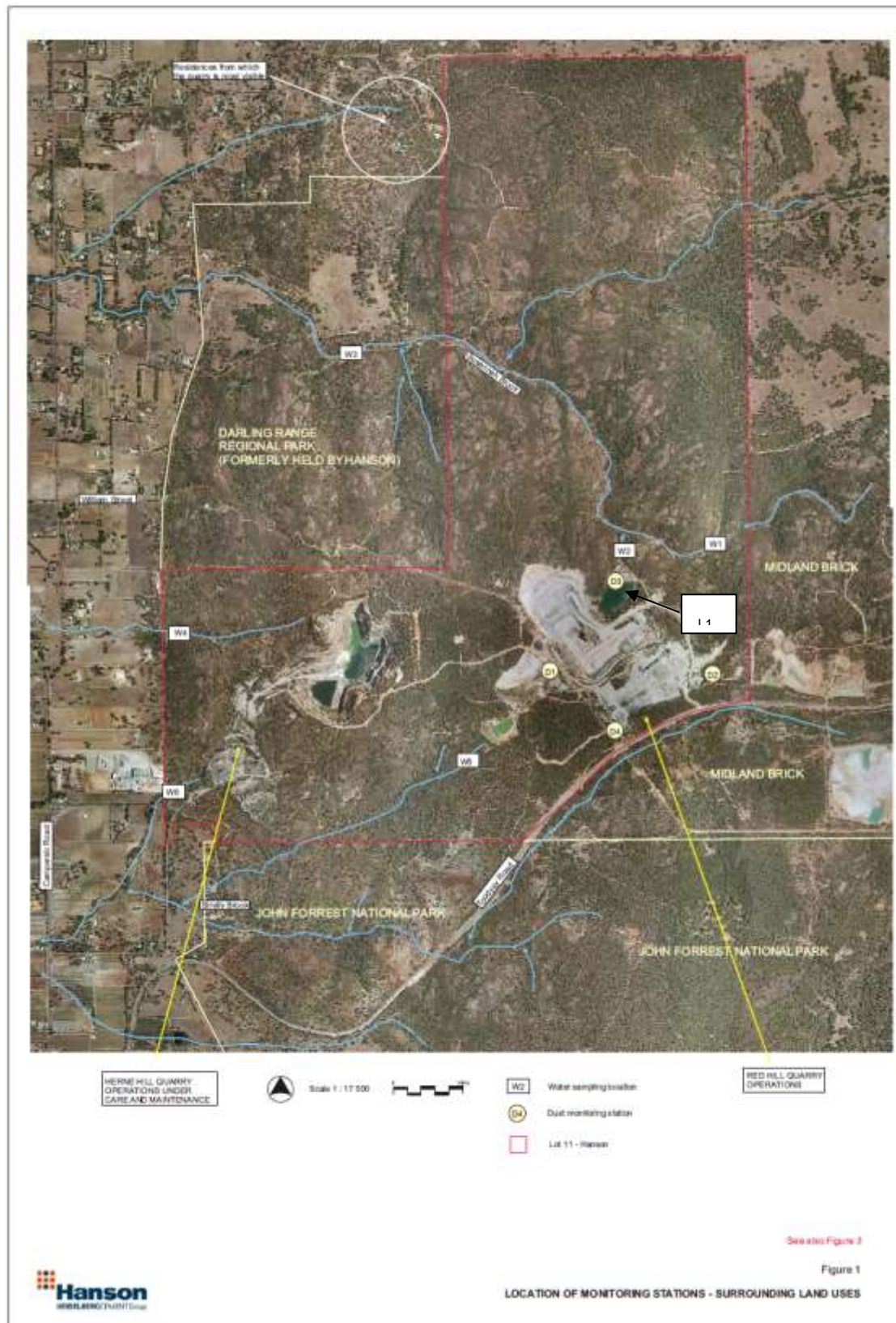
Premises map

The Premises is shown in the map below. The red line depicts the Premises boundary.



Emission and monitoring points

The location of the emission point defined in Table 2.2.1, and the location of the monitoring points defined in Table 3.2.1 are shown below



Storage locations

The location of the storage areas defined in Table 1.3.1 are shown below



Schedule 2: Notification & Forms

Licence: L4414/1968/12

Licence Holder: Hanson Construction Materials Pty Ltd

Form: N1

Date of breach:

Notification of detection of the breach of a limit.

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

Part A

Licence Number	
Name of operator	
Location of Premises	
Time and date of the detection	

Notification requirements for the breach of a limit	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

Part B

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident.	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission.	
The dates of any previous N1 notifications for the Premises in the preceding 24 months.	

Name	
Post	
Signature on behalf of Hanson Construction Materials Pty Ltd	
Date	