

## **ENVIRONMENTAL PERMIT**

**Chelmsford City Council Permit:**

Hanson Quarry Products Europe Ltd  
Hanson House  
14 Castle Hill  
Maidenhead  
Berkshire, SL6 4JJ  
(Registration Number: 300002)

**To Operate a Part B Installation At:**

Bulls Lodge Premix Plant  
Bulls Lodge Quarry  
Generals Lane  
Boreham, CM3 3HR

**Under the Provisions of:**

Pollution Prevention and Control Act 1999  
Environmental Permitting (England and Wales)  
(Amendment) Regulations 2018

**Permit Reference Number: EPR/020**

**Permit Issue Date: 12<sup>th</sup> February 2018**



**Paul Brookes**  
**Public Health & Protection Services Manager**  
(The Authorised Officer for this purpose)

## CONTENTS

Status Log

Description of Installation

Conditions

Operating Conditions

Records & Training

Best Available Techniques

Table1 – Emission Limits, Monitoring & Other Provisions

Appendix 1 – Location Plan

Appendix 2 – Site Plan

## STATUS LOG

Detail	Reference	Date
Permit Issued		12 <sup>th</sup> June 2002
Permit Issued		12 <sup>th</sup> December 2006
Variation	EPR & BAT Updates	1 <sup>st</sup> March 2009
Variation	PG3/01(12) Update & Model Permit	12 <sup>th</sup> June 2012
Variation	EP Regulations (2018)	12 <sup>th</sup> February 2018

## DESCRIPTION OF THE INSTALLATION

Hanson Quarry Products Europe Limited (trading as Hanson Aggregates) operates a McCrory Concrete Batching Plant that is rated to produce 180,000m<sup>3</sup> of ready-mixed concrete per annum.

Coarse and fine aggregate are delivered by front-end loader from aggregate stockpiled within the quarry to the aggregate storage bins where they are stored separately in multiple bins. Cement and other cementitious powders are delivered in special purpose dry powder tankers and are stored in three sealed silo's all fitted with a silo protection system including:

- High level alarms,
- Reverse jet filters,
- Pressure sensors and auto shut off valves.

Coarse and fine aggregate are discharged from the bins straight onto a weighing conveyor, from where they are transported via a second conveyor to the pan mixer. Cement and cementitious powders are transferred from one or more of the storage silo's by a dust tight screws into a separate enclosed weigh hopper situated above the pan mixer, after weighing the cement is gravity discharged directly into the pan mix at the same time as the aggregate, water and admixture, this process is controlled by the plant batching computer.

Any dust that is produced in the mixing process is collected in a large sock situated above the mixer and then discharged back into the mixer at the end of the batch cycle. Truck mixers are loaded via a discharge hopper fitted with a rubber sock, as the plant is wet batch there are no dust emissions made as the material is in a wet state at discharge.

## CONDITIONS

The operator (Hanson Quarry Products Europe Ltd) is authorised to operate the activity at the installation (Bulls Lodge Premix Plant) subject to the following conditions:

### Operating Conditions

#### Emissions and Monitoring

- 1 No visible particulate matter shall be emitted beyond the installation boundary.
- 2 The emission requirements and methods and frequency of monitoring set out in Table 1 shall be complied with. Sampling shall be representative.

Any monitoring display required for compliance with the permit shall be visible to operating staff at all times. Corrective action shall be taken immediately if any periodic monitoring result exceeds a limit in Table 1, or if there is a malfunction or breakdown of any equipment which might increase emissions. Monitoring shall be undertaken or repeated as soon as possible thereafter and a brief record shall be kept of the main actions taken.

All continuous monitors fitted to show compliance with the permit shall be fitted with a visible and audible alarm warning of arrestment failure or malfunction. They shall activate when emissions reach 75% of the relevant emission limit in Table 1 and automatically record each activation. \*Alarms shall be tested at least once a week.\*

- 3 All plant and equipment capable of causing, or preventing, emissions and all monitoring devices shall be calibrated and maintained in accordance with the manufacturer's instructions. \*Records shall be kept of such maintenance.\*

#### Silos

- 4 Bulk cement shall only be stored within the bulk cement silos.
- 5 Dust emissions from loading or unloading road tankers shall be minimised by connecting transfer lines first to the delivery inlet point and then to the tanker discharge point, and by ensuring delivery is at a rate which does not pressurise the silo.
- 6 Silos shall not be overfilled and over pressurised and there shall be an overfilling alarm.
- 7 When loading silos which were new after Jun 2004, deliveries must automatically stop where overfilling or over-pressurisation is identified.
- 8 Displaced air from pneumatic transfer shall pass through abatement plant prior to emission to air.

#### Aggregates Delivery and Storage

- 9 Dusty materials (including dusty wastes) shall only be stored in fully enclosed stores as detailed on the plan attached to this permit and shall be subject to suppression and management techniques to minimise dust emissions.

#### Belt Conveying

- 10 All dusty materials, including wastes, shall be conveyed a fully enclosed conveyor belt system. All transfer points shall be fitted with sufficient means of dust arrestment or suppression to minimise emissions of dust. Belt scrapers shall be fitted to clean belt conveyors.

#### Loading, Unloading and Transport

- 11 No potentially dusty materials (including wastes) or finished products shall arrive on or leave the site other than by use of fully enclosed vehicles.

---

### Roadways and Transportation

- 12 All areas where there is regular movement of vehicles shall have a consolidated surface capable of being cleaned, and these surfaces shall be kept clean and in good repair. Quarry haul roads are excluded from this provision.
- 13 Vehicles shall not track material from the site onto the highway.

### Techniques to Control Fugitive Emissions

- 14 The fabric of process buildings shall be maintained so as to minimise visible dust emissions.

### **Records and Training**

- 15 Written or computer records of all tests and monitoring shall be kept by the operator for at least 18 months. They shall be made available for examination by the Council.  
\*Records shall be kept of operator inspections, including those for visible emissions.\*
- 16 Staff at all levels shall receive the necessary training and instruction to enable them to comply with the conditions of this permit. Records shall be kept of relevant training undertaken.

### **Best Available Techniques**

- 17 The best available techniques shall be used to prevent or, where that is not practicable, reduce emissions from the installation in relation to any aspect of the operation of the installation which is not regulated by any other condition of this permit.
- 18 If the operator proposes to make a change in operation of the installation, he must, at least 14 days before making the change, notify the regulator in writing. The notification must contain a description of the proposed change in operation. It is not necessary to make such a notification if an application to vary this permit has been made and the application contains a description of the proposed change. In this condition „change in operation“ means a change in the nature or functioning, or an extension, of the installation, which may have consequences for the environment.

Table 1 - Emission limits, monitoring and related provisions

Row	Substance	Source	Emission limits/provisions	Type of monitoring	Monitoring frequency
1	Particulate matter	Whole Process	No visible airborne emission to cross the site boundary where harm or nuisance may be caused	Operator observations	At least daily
		Silo inlets and outlets (for silos new since 1st July 2004)	Designed to emit less than 10mg/m <sup>3</sup>	Operator observations	At time of delivery
		Silo inlets and outlets	No visible emission		
		Arrestment equipment, or any point where dust contaminated air is extracted from the process to atmosphere, with exhaust flow >300m <sup>3</sup> /min. (other than silo arrestment plant)	50mg/m <sup>3</sup>	Recorded indicative monitoring	Continuous
					*Isokinetic sampling
			Arrestment equipment, or any point where dust contaminated air is extracted from the process to atmosphere, with exhaust flow >100m <sup>3</sup> /min. (other than silo arrestment plant)	No visible emission Arrestment equipment should be provided with a design guarantee that the equipment can meet 50mg/m <sup>3</sup>	Indicative monitoring to demonstrate that the arrestment equipment is functioning correctly
Arrestment equipment, or any point where dust contaminated air is extracted from the process to atmosphere, with exhaust flow <100m <sup>3</sup> /min. (other than silo arrestment plant)	No visible emission	Operator observation Or Indicative monitoring	At least daily Or Continuous		
2	Droplets, persistent mist and fume	All emissions to air (except steam and condensed water vapour)	No droplets, no persistent mist, no persistent fume.	Visual observations	*On start-up and on at least two more occasions during the working day*

Only emissions to atmosphere are required to comply with the emission limits within this table.

Notes:

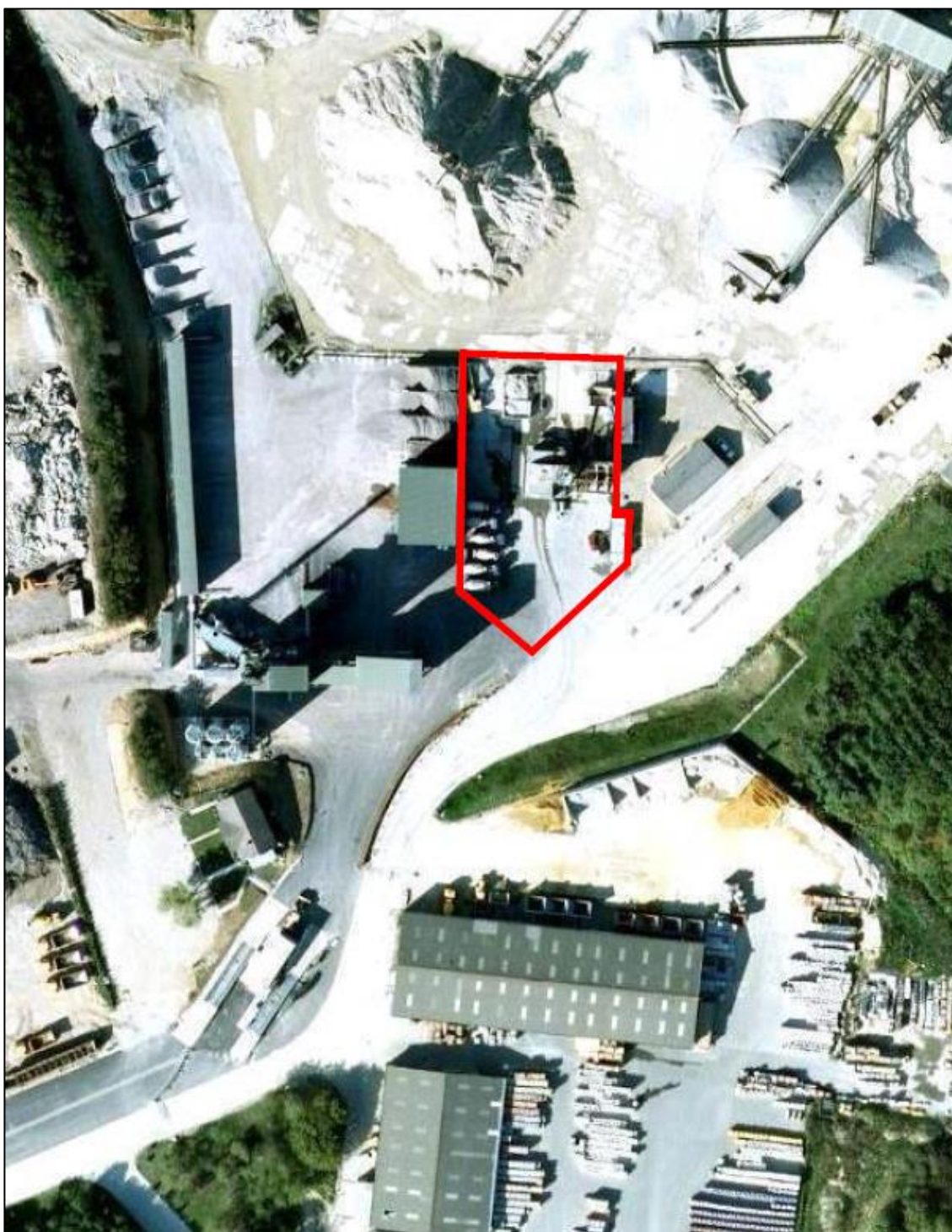
\*All periodic monitoring results shall be checked by the operator on receipt and sent to the Council within 8 weeks of the monitoring being undertaken.\*

a) The reference conditions for limits in Table 1 are: 273.1K, 101.3kPa, without correction for water vapour content, unless stated otherwise.

b) All periodic monitoring shall be representative, and shall use standard methods.

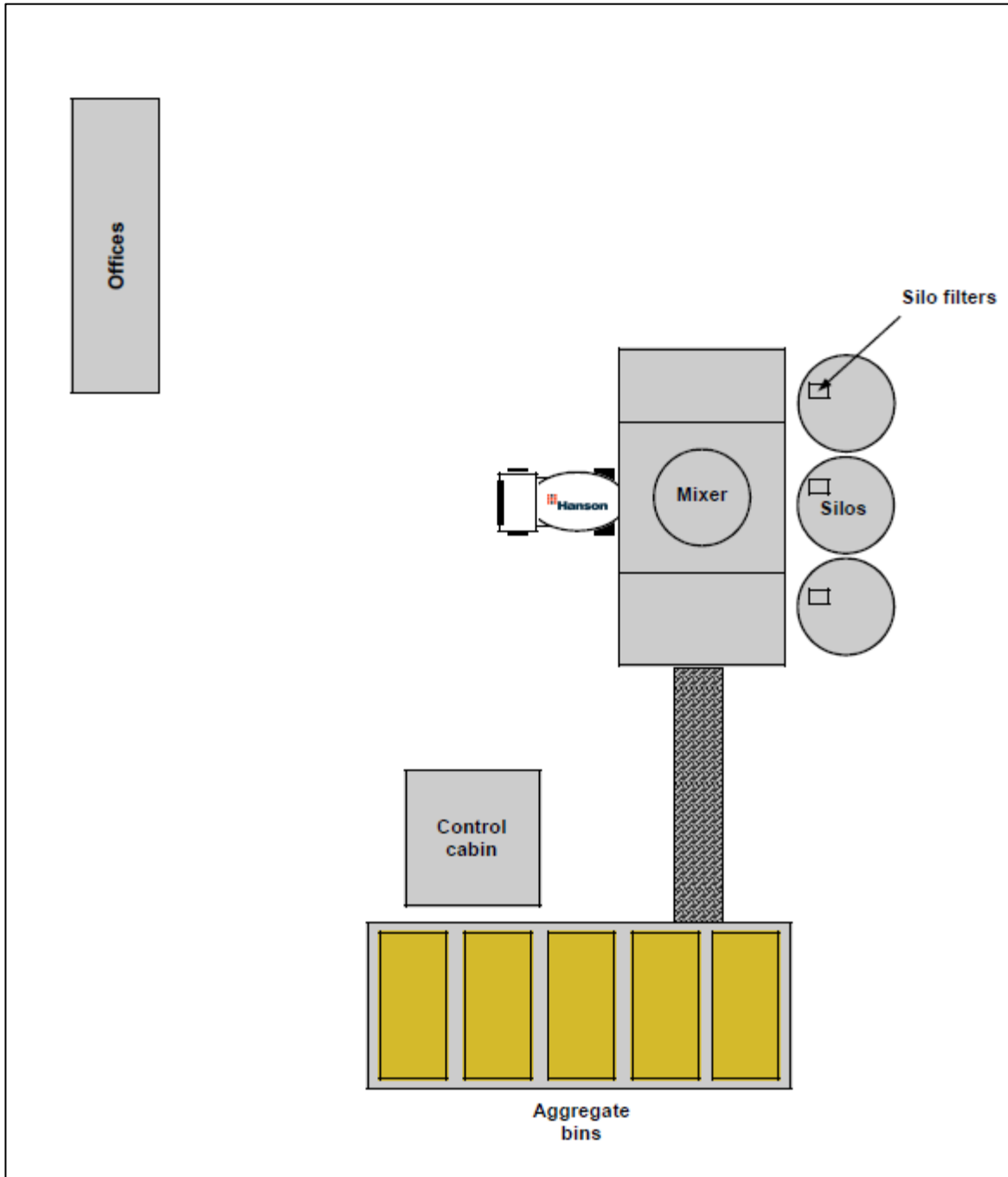
c) The emission limits do not apply during start-up and shut down. All emissions shall be kept to a minimum during these periods.

## Appendix 1 – Location of the Installation



Based upon the Ordnance Survey mapping with the permission of the Controller of Her Majesty's Stationery Office (c) Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. Chelmsford CC Licence No. 100023562 2014

## Appendix 2 - Site Plan



---

## Explanatory Note to Environmental Permit (This note does not form a part of the Permit)

The enclosed Permit is issued under Regulation 13 of the Environmental Permitting (England and Wales) (Amendment) Regulations 2018 (EP Regulations), to operate an installation carrying out activities covered by the description in Schedule 1 Part B of the EP Regulations.

### Best Available Techniques (BAT)

Aspects of the operation of the installation which are not regulated by specific conditions of the Permit are subject to the general condition included in the Permit requiring the operator to use BAT to prevent or reduce emissions that are not covered by specific permit conditions.

The determination of what constitutes BAT is made on a case-by-case basis however where Process Guidance Notes are available these will be used as the baseline for what is BAT. Formal definitions of BAT can be found in the IPPC Directive.

### Process Changes

The Permit contains a condition requiring you to notify the Council of any proposed change in operation at least 14 days before making the change. This must be in writing and must contain a full description of the proposed change in operation and the likely consequences to the permitted activity. Failure to do so is an offence. It is also good practice to notify the Council of any administrative changes, such as the name or address of the operator.

### Variations to the Permit

If you consider that a proposed change could result in the breach of the existing permit conditions or is likely to require the variation of permit conditions then you may apply in writing under Regulation 20 of the EP Regulations. Additionally, if this involves a SUBSTANTIAL CHANGE (A change in operation which, in the opinion of the Council may have significant negative effects on human health or the environment) to the installation you will be required to submit an application, pay the relevant fee and the application will be subject to publicity and consultation.

The Council may decide that the existing permit conditions require amendment without receiving any notification or an application for variation from the operator. This is most likely to occur when the Council has conducted a periodic review in accordance with EP regulation 34 or in the light of revised guidance from Defra. The Council will serve a Variation Notice under EP Regulation 20 on the Operator and may issue a consolidated Permit under EP Regulation 18.

### Transfer of the Permit or Part of the Permit

Before the Permit can be wholly or partially transferred to another person, a joint application to transfer the Permit has to be made by both the existing and proposed holders, in accordance with EP Regulation 21. A transfer will be allowed unless Chelmsford City Council considers that the

proposed holder will not be the person who will have control over the operation of the installation or will not operate the installation in accordance with the Permit.

### **Annual Subsistence Fee**

Operators must pay an annual subsistence fee for the Permit in accordance with EP Regulation 65. This fee is payable annually on 1st April and the level of the subsistence fee payable is contained within the relevant charging scheme issued annually by the Secretary of State. The charging scheme is risk based for all standard activities (i.e. not dry cleaning, petrol stations, small waste oil burners and vehicle refinishers). The risk-based method uses a point scoring method and applies a low, medium or high risk rating to activities operating at an installation. The resulting subsistence fees are proportionate to the risk rating. You will receive an invoice each year with respect to this payment and you are advised that if prompt payment of the fee is not forthcoming, Chelmsford City Council may revoke your Permit under EP Regulation 22.

### **Public Register**

The Council is required by Regulation 46 of the EP Regulations to maintain a Public Register containing information on all LA-IPPC and LAPPC installations and mobile plant.

### **Confidentiality**

An operator may request certain information in relation to the Permitted installation to remain confidential and not to be placed on the Public Register for reasons of National Security or commercial or industrial confidentiality. The operator must provide clear justification for each item he or she wishes to be kept from the register. Chelmsford City Council must consider and determine all requests of confidentiality of information in accordance with EP Regulation 51.

### **Talking to Us**

Any communication with Chelmsford City Council with respect to this Permit should quote the Permit Reference Number, and should be made to:

**Chelmsford City Council**  
**Public Health & Protection Services**  
Civic Centre,  
Duke Street,  
Chelmsford,  
Essex, CM1 1JE  
Tel: 01245 606606  
Email: [envpermits@chelmsford.gov.uk](mailto:envpermits@chelmsford.gov.uk)

## Appeals

Under Regulation 31 of the EP Regulations operators have the right of appeal against the conditions contained within their permit. An appeal does not have the effect of suspending the Permit conditions. Notice of appeal against the conditions attached to the permit must be given within six months of the issue date of the Permit, which is the subject matter of the appeal.

## How to Appeal

There are no charges for making an appeal, application forms can be obtained from <http://www.planning-inspectorate.gov.uk/pins/environment/environmeny/index.htm>.

For an appeal to be valid, appellants (the person/operator making the appeal) are legally required to provide:

- Written notice of the appeal;
- A statement of the grounds of appeal;
- A statement indicating whether the appellant wishes the appeal to be dealt with by written representations procedure or a hearing - a hearing must be held if either the appellant or enforcing authority requests this, or if the Planning Inspector or the Secretary of State decides to hold one.

*(appellants must copy the above three items to the local authority when the appeal is made)*

- A copy of any relevant application;
- A copy of any relevant permit;
- A copy of any relevant correspondence between the appellant and the regulator; and
- A copy of any decision or notice, which is the subject matter of the appeal.

## Where to Send Your Appeal Documents

Appeals should be addressed to:

The Planning Inspectorate  
Environment Team, Major and Specialist Casework  
Room 4/04 – Kite Wing  
Temple Quay House  
2 The Square  
Temple Quay  
Bristol BS1 6PN  
0117 372 8726

In the course of an appeal process, the main parties will be informed of procedural steps by the Planning Inspectorate. To withdraw an appeal the appellant must notify the Planning Inspectorate in writing and copy the notification to the local authority.