



CHARNWOOD BOROUGH COUNCIL

POLLUTION PREVENTION AND CONTROL ACT 1999

**ENVIRONMENTAL PERMITTING (ENGLAND AND WALES)
REGULATIONS 2016**

PERMIT REF. NO. 015

Charnwood Borough Council hereby permits, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2016

MIDLAND QUARRY PRODUCTS LTD ('the operator')

whose registered office is:

**MIDLAND QUARRY PRODUCTS LTD
WHITWICK HEAD OFFICE, LEICESTER ROAD, WHITWICK, LEICESTER
LE67 5GR**

To operate a roadstone coating plant at:

**MIDLAND QUARRY PRODUCTS LTD, GROBY QUARRY, NEWTOWN LINFORD LANE,
GROBY, LEICESTERSHIRE. LE6 0EA.**

subject to the conditions outlined in this document. The conditions contained herein shall apply from the date of the Permit unless otherwise stated.

Name	Date
Ann Green	06/03/2017

Authorised on behalf of Charnwood Borough Council

Permit issued by:
Regulatory Services, Environmental Protection Southfields, Southfields Road, Loughborough,
Leicestershire LE11 2TX

This introductory note does not form a part of the permit

The following Permit is issued under the Environmental Permitting (England and Wales) Regulations 2016 (SI 2016/1154), as amended, ("the EP Regulations") to operate an installation carrying out one or more of the activities: namely:

Section 3.5 Part B requires the following activities to be permitted:

(a) Unless falling within Part A(1) or Part A(2) of any Section in this Schedule, the crushing, grinding or other size reduction, other than the cutting of stone, or the grading, screening or heating of any designated mineral or mineral product except where the operation of the activity is unlikely to result in the release into the air of particulate matter.

(b) Any of the following activities unless carried on at an exempt location:

- (i) crushing, grinding or otherwise breaking up coal, coke or any other coal product;
- (ii) screening, grading or mixing coal, coke or any other coal product;
- (iii) loading or unloading petroleum coke, coal, coke or any other coal product except unloading on retail sale.

(c) The crushing, grinding or other size reduction, with machinery designed for that purpose, of bricks, tiles, concrete or RAP.

(d) Screening the product of any activity described in paragraph (c).

(e) Coating road stone with tar or bitumen.

(f) Loading, unloading, or storing pulverised fuel ash in bulk prior to further transportation in bulk.

(g) The fusion of calcined bauxite for the production of artificial corundum.

Status Log

Details	Date	Comments
Date first Issued	5 August 1993	
Variation Notice	20 August 1998	
Variation Notice	18 April 2005	Consolidated permit
Variation Notice	14 March 2006	Consolidated permit
Variation Notice	30 May 2008	Front sheet only
Variation Notice	31 March 2011	Revised permit issued
Variation Notice	6 March 2017	Revised permit

Origins of the conditions contained in the permit

The Secretary of State has issued various guidance notes to local authorities to assist with determining those conditions which represent 'best available technique' in the different circumstances which apply to each installation. The conditions within this permit have largely been derived from the following guidance note;

PG 3/15 (12) Roadstone Coating Processes

Process Description

The Mixlance batch heater and mixing unit is designed to proportion, weigh and heat aggregates for final mixing with bitumen and various additives to form a wide range of coated asphalt products.

Sized aggregates and sands are fed independently by a rubber tyred loading shovel from the existing aggregate stocking area into 9 cold feed hoppers each having a capacity of 15 tonnes. Aggregates are then proportioned through fixed speed or timed belt feeders onto a gathering conveyor and inclined feed conveyor into the weight hopper.

Pre-weighed aggregate and sand is then dried and heated in batches of up to 3 tonnes in a rotating heating drum where the product is tumbled by angled lifters through a conical flame burner for a heating cycle of typically 2 minutes to achieve the product target temperature.

The burner is a dual fuel unit run on gas oil or processed fuel oil (PFO) and capable of handling up to 600 litres/hour of gas oil. The main flame is fixed and is supported by a propane fuelled on demand igniter system. Its operation is controlled by the plant computer system such that the main flame is ignited to heat each batch to the pre-determined temperature and to be extinguished between batches. The batch heater drum has a constant exhaust volume of 30,000 m³/hr at an average temperature of 150°C (Max 200°C).

Dried and heated aggregates from the batch heating drum are discharged directly into the plant mixer where final mixing takes place in a twin shafted rotary mixer where bitumen, filler and additives are weighed and added to form the final coated recipe. Cold recycled asphalt planings and recycled aggregates may also be added in small quantities into certain mixes, fed through the plant cold feed system.

After the mixing cycle, coated products are discharged directly into road vehicles for final dispatch from the works.

Imported limestone fillers are contained within a 40 tonne capacity imported filler silo mounted to one side of batch heater building. Reclaimed fillers collected by the exhaust and collection system are stored in the 30 tonne capacity dust storage hopper of the main plant filter also sited to one side of the batch heater building. Reclaimed filler is returned into the process flow wherever possible.

Reclaimed and imported fillers are discharged from each storage section through a rotary valve and sealed screw conveyor arrangement directly into a weigh system serving the plant mixer. Excess reclaimed filler may alternatively be discharged through a twin shafted pug mill where water is added to the outgoing material to form a soil like consistency to enable the material to be handled and transported safely and nuisance free from the operation site.

Emissions are controlled via a fabric filter which will operate to control emissions to less than 50mg/m³.

Bitumen of various grades is stored in 2 new vertical 50,000 litre electrically heated tanks, each having continuous level indication and high and ultimate high alarm systems to prevent overfilling, together with temperature protection and cut-out systems.

The road stone coating activities regulated under this permit incorporates:

-) The storage of raw materials, (namely sand, aggregate, gas oil, PFO, RAP and bitumen)
-) The transportation and loading/unloading of these materials
-) The mixing and batching of these materials
-) The storage and disposal of any waste arising from the activity
-) Any plant, machinery or equipment designed to prevent pollutant emissions to the environment.

Principle Emissions and Emission Points

Emission Point	Emissions
1. Chimney serving the Mixlance heater and mix plant.	Bitumen Odour Combustion products Particulate matter
2. Bitumen storage tanks	Odour
3. 9 cold feed hoppers including :aggregates, sand and RAP	Particulate matter
4. 2 filler silos	Particulate matter
5. External fugitive sources such as: I. storage bays, II. feed hoppers, III. conveyors, IV. mixer V. waste storage area VI. roadways	Particulate Matter

End of Introductory Note.

The above named company is permitted to operate a road coating activity subject to compliance with the following conditions:

Permit Conditions

Emission and Monitoring

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

Table 1 Emission limits, monitoring and other provisions				
Whole site and all authorised emission points.				
Substance	Source	Emissions Limit	Type of Monitoring	Monitoring Frequency
Visible emissions	Site	No visible emissions to cross site boundary	Operator observations	Once a day
Visible emissions	All authorised emission points	No abnormal emission	Operator observations	At least daily
Droplets, persistent mist, fume and smoke	All emissions to air (except steam and condensed water vapour)	No droplets, no persistent mist, no persistent fume. No visible smoke except during start-up of coating plant and then no darker than Ringelmann 1.	Visible observations	Operator observations. Record start and finish times. On start up and on at least two more occasions during the working day.
Road stone coating plant.				
Particulate matter	Roadstone coating plant existing at 1 July 2004	50mg/m ³	Annual extractive testing in conjunction with continuous indicative monitoring	
Sulphur dioxide	All activities using heavy fuel oil or other residual type/comparable Quality Protocol Processed Fuel Oil	1%wt/wt sulphur in fuel	Sulphur content of fuel is regulated under the Sulphur content of Liquid Fuels Regulations.	
Silos				
Particulate matter	Silo inlet and outlet	No visible emissions	Operator/driver observations. Record start and finish times.	Every delivery

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) - Where the plant is discharging to the external atmosphere.

(b) The reference conditions for limits in Table 1 are: 273.1K, 101.3kPa without correction for water vapour content.

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

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

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.

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. Fillers and bitumen shall only be stored within the filler and bitumen silos.
5. Storage silos shall be equipped with audible or visual high-level alarms to warn of overfilling. The correct operation of such alarms shall be checked at least once a week or before each delivery, whichever is the longer interval.
6. The connection of transfer lines to the tanker discharge point and silo delivery inlet point shall be checked before the transfer of materials commences. The transfer shall only commence once it has been established that the connection to these points will prevent emissions. Any emission occurring from the transfer line shall be recorded in the site log book.

Aggregates delivery and storage

7. No material shall be stored in the open except for:-
 - a) Material that has been screened to remove material 3mm and under;
 - b) Sand and Scalpings;
 - c) Material used for road sub-bases (commonly known as 'MOT material') that has been conditioned before deposition;
 - d) Crusher run material or blended material that has been conditioned before deposition;

Where appropriate imported loads shall be conditioned with water and stockpiles will be profiled to reduce wind entrainment of dust.

8. Dusty materials shall be stored in the cold feed hoppers as detailed in Appendix 3 attached to the end of this permit. They shall be subject to suppression and management techniques to minimise dust emissions.

Belt conveying

9. All conveyors shall be:-
- a) Enclosed by 3 sided sheet steel covers with inspection doors. The transfer point will be enclosed in a sheeted enclosure having rubber seals on inlets and outlets and skirt sections.
 - b) Of sufficient capacity to handle maximum loads,
 - c) Provided with protection against wind whipping,
 - d) Arranged to minimise free-fall at all times,
 - e) Provided with belt scrapers for keeping the return belt clean and a means of collecting materials removed by this cleaning operation.

Loading, unloading and transport

10. The transportation of processed material in vehicles entering and leaving the site likely to generate dust shall be carried out in sheeted lorries or the material being transported shall be conditioned with water.
11. The loading of vehicles shall be carried out in such manner as to minimise the generation of airborne dust.

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. Hard surfaced roadways and yards shall be inspected weekly and the results of the inspection shall be recorded in the site log book. Any damage to the hard surface roadway and yards shall be repaired as soon as is reasonably practicable
14. Vehicles shall not track material from the site onto the highway.

Records and training

15. Written or computer records of all audits, tests, maintenance and monitoring with respect to pollution control equipment shall be kept by the operator for at least 2 years. These documents shall be made available for inspection to a duly authorised officer of Charnwood Borough Council on request.
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. These documents shall be made available for inspection to a duly authorised officer of Charnwood Borough Council on request.

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.

End of Conditions.

Appendix 1**Bitumen and Oil Storage and handling temperatures**

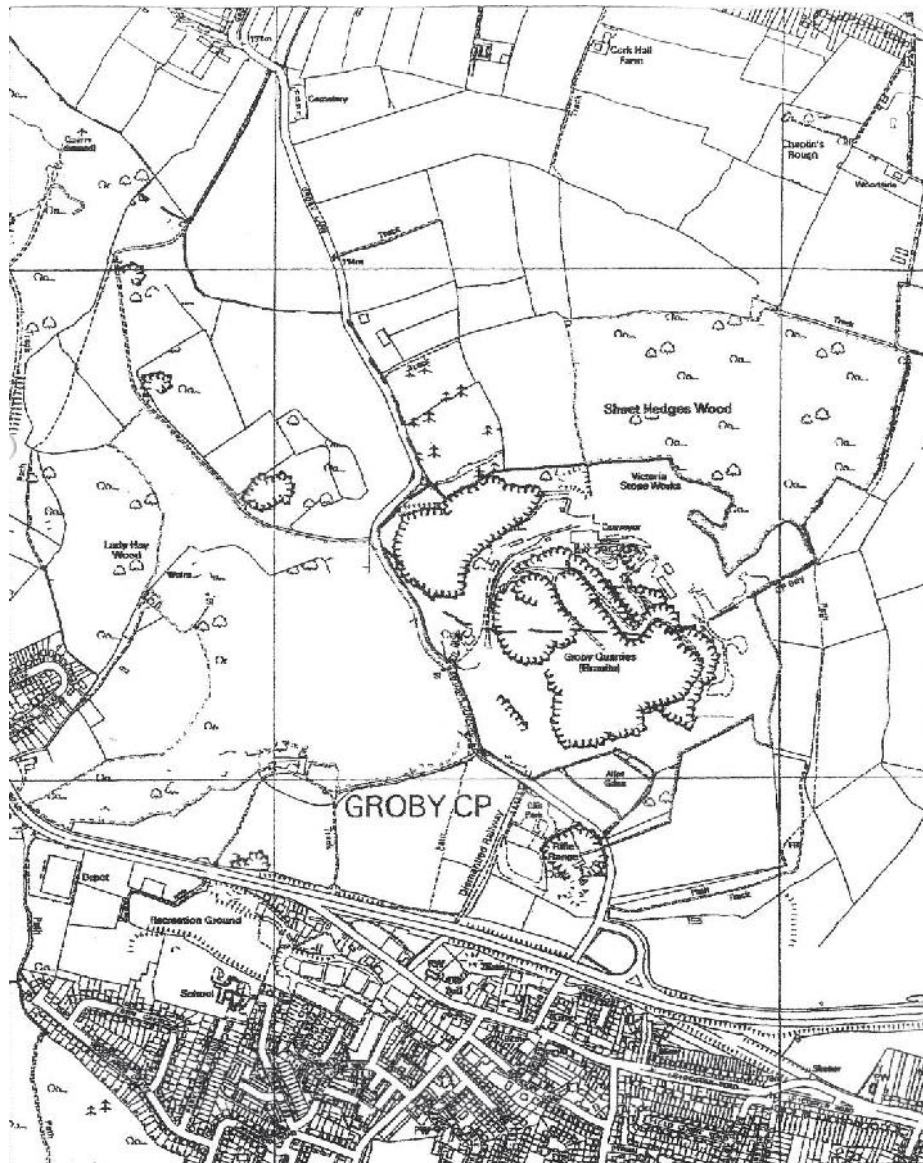
Grade (BS 3690)	Minimum Pumping Temperature (°C)	Maximum Handling & Storage Temperature (°C)
Penetration Grades		
450 pen	90	190
350 pen	95	190
200 pen	100	190
100 pen	105	200
70 pen	110	200
50 pen	115	200
40 pen	125	200
35 pen	125	220
25 pen	135	220
15 pen	140	220
Cutback Grades		
50 secs	65	160
100 secs	70	170
200 secs	80	180

* these figures do not apply to coal tars

BS EN 1251:2000 'Bitumen and bituminous binders - specification for paving grade bitumens' is the new standard which has partially replaced BS 3690 Part 1. Under the new standard, which took effect from January 2002, there is a slight change in some of the above listed penetration grades. The new grades fall within the same overall penetration range as the previous ones, and the recommended storage and handling temperatures can be determined by 'read across' or interpolation from the above table.

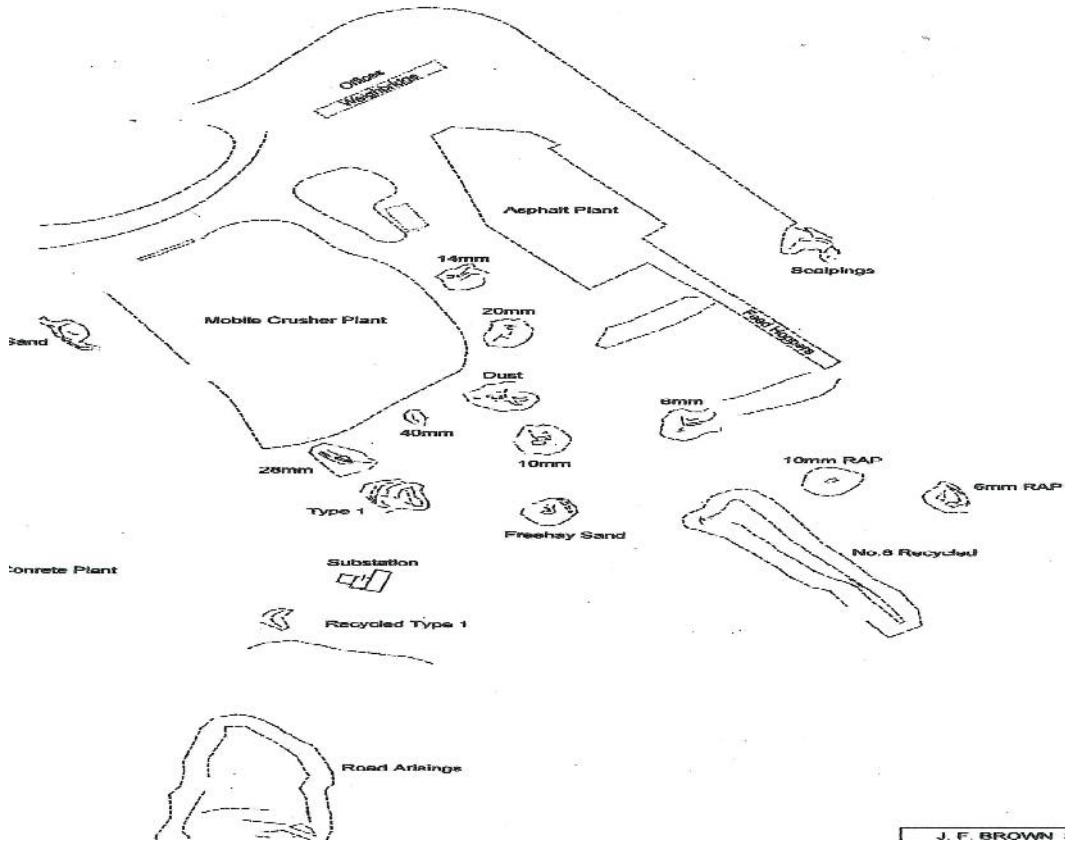
Appendix 2 - Site Location**Figure 1/015**

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Appendix 3 - Site Layout Plan

Figure 2/015



Explanatory Notes

These notes do not comprise part of the permit but contain guidance relevant to it.

Inspections

Regular inspections will be made by officers of Charnwood Borough Council (without prior notice), in order to check and ensure full compliance with this permit.

BAT (Best Available Techniques)

The Permit includes conditions that have to be complied with. It should be noted that aspects of the operation of the installation which are not regulated by conditions of the Permit are subject to the implied condition that the Operator shall use the best available techniques for preventing or, where that is not practicable, reducing emissions from the installation. Techniques include both the technology used and the way in which the installation is designed, built, maintained, operated and decommissioned.

Change in Operation of the Installation

If you, the operator proposes to make a change in operation of the installation you must at least 14 days before making the change, notify Charnwood Borough Council 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. A 'change in operation' means a change in the nature or functioning, or an extension, of the installation, which may have consequences for the environment.

Health and Safety at Work and Other Statutory Requirements

The responsibility you have under legislation for Health, Safety and Welfare in the workplace remains in force. In addition, the Permit does not relieve you of your obligations to obtain planning permission, hazardous substances consent, discharge consent from the Environment Agency, Building Regulations approval, or some Waste Disposal Licences.

Submission of Information

Note that the Permit requires the submission of certain information to the Local Authority (LA). In addition, the LA has the power to seek further information at any time under the EP Regulations provided that it acts reasonably.

Public Registers

Considerable information relating to Permits including the Application is available on public registers in accordance with the EP Regulations. Certain information may be withheld from public registers where it is commercially confidential or contrary to national security. The onus is on the Operator to provide a clear justification for each item to be kept from the register. Applications for information to be excluded from the Public Register on grounds of National Security should be made to the Secretary of State.

Variations to the Permit

This Permit may be varied in the future (by the LA serving a Variation Notice on the Operator). If the Operator itself wants any of the Conditions of the Permit to be changed, it must submit a formal Application. The Status Log within the Introduction will include summary details of this Permit, variations issued up to that point in time and state whether a consolidated version of the Permit has been issued.

Surrender of the Permit

Where the Operator intends to cease the operation of an installation (in whole or in part) The LA should be informed in writing, such notification must include the information specified in the EP Regulations.

Transfer of the Permit or part of the Permit

Before the Permit can be wholly or partially transferred to another person, an Application to transfer the Permit has to be made jointly by the existing and proposed holders. A transfer will be allowed unless the LA considers that the proposed holder will not be the person who will have control over the operation of the installation or will not comply with the conditions of the transferred Permit.

Annual Subsistence Fee

Under the EP Regulations the holder of a permit is required to pay a fee for the subsistence of the permit. This fee is payable annually on 1st April. You are advised that under the provisions of the EP Regulations, if you fail to pay the fee due promptly, Charnwood Borough Council may revoke the permit. You will be contacted separately each year in respect to this payment.

Talking to us

Please quote the Permit Number if you contact Charnwood Borough Council about this Permit. To contact Charnwood Borough Council please use the telephone number 01509 634636 or any other number notified in writing to the Operator by Charnwood Borough Council for that purpose.

Right To Appeal

Anyone who is aggrieved by the conditions attached to a Permit can appeal to the Secretary of State. Appeals must be sent within 6 months from the date of the permit (normally the date on the bottom of the permit).

Appeals should be addressed as follows:-

The Planning Inspectorate
Environmental Appeals Administration
Room 4/19 Eagle Wing
Temple Quay House
2 The Square
Temple Quay
Bristol BS1 6PN

An appeal will not suspend the effect of the conditions appealed against; the conditions must still be complied with.

There are no forms or charges for appealing. However for an appeal to be valid, appellants are legally required to provide information detailed below:

- i. A statement of the grounds of appeal
- ii. A copy of any relevant permit
- iii. A copy of any relevant correspondence between the appellant and the regulator
- iv. A statement indicating whether the appellant wishes the appeal to be in the form of a hearing or dealt with by way of written representations.

At the same time, the notice of appeal and documents (i) and (iv) must be sent to the Council.

In determining an appeal against one or more conditions, the Regulations allow the Inspector or Secretary of State to affirm or quash conditions or to add new conditions

You will be liable for prosecution if you fail to comply with the conditions of this permit. If found guilty, the maximum penalty for each offence if prosecuted in a magistrates Court is an unlimited fine and/or 12 months imprisonment. In a Crown Court it is an unlimited fine and/or a 5 years imprisonment.

Our enforcement of your permit will be in accordance with the Regulator's Compliance Code.