CAMBRIDGE CITY COUNCIL

POLLUTION PREVENTION AND CONTROL ACT 1999
ENVIRONMENTAL PERMITTING (ENGLAND AND WALES)
REGULATIONS 2010 SI 675 (as amended)

Permit No. 2014/58

Name and address of operator:

Mr Barry Fender
Mick George Concrete Ltd
Second Drove
Meadow Lane
St Ives
Huntingdon
Cambridgeshire
PE27 4YQ

Registered Company No. 8240961

Address of permitted plant:

Mick George Concrete Ltd
Cambridge Transfer Station
St John’s Innovation Park
Cowley Road
Cambridge
CB4 0DP

Process permitted:

The use of bulk cement in the production of ready mixed concrete

Process Guidance Note:

PG 3/1(12) – Blending, Packing, Loading and Use of Bulk Cement

As marked in red on the attached drawing -
Reference Number C32/13/01
Cambridge City Council hereby permits Mr Barry Fender of Mick George Concrete Limited, Second Drove, Meadow Lane, St Ives, Huntingdon, Cambridgeshire, PE27 4YQ to operate a permitted installation involving the use of bulk cement as described below in accordance with the following conditions numbered 1 – 18 that are based on guidance from the Secretary of State in the Process Guidance Note PG3/01(12).

DESCRIPTION OF ACTIVITY

This activity is prescribed for the Local Authority Pollution Prevention and Control under Section 3.1 of Schedule 1, Part 2, to the Environmental Permitting (England and Wales) Regulations 2010, SI 2010/675 (as amended).

It consists of the use of bulk cement in the production of ready mixed concrete for delivery off site. The plant is situated within the existing Mick George Waste Transfer Station alongside Cowley Road and the nearest residential accommodation is approximately 120 metres away.

The plant is shown in diagrammatical form in attached drawing reference Plan A.

It consists of:

- 4 x Aggregate weigh hoppers
- Aggregate radial conveyor
- 3 x 80T cement silos
- 1 x cement weigh hopper
- 4 x cement augers (1no from each silo to weigh hopper & 1no from weigh hopper to loading head)
- Loading head
- Spray Bar
- Batch control cabin

All transfer conveyors are located within the enclosed section of the building.

From the aggregate weigh hoppers the aggregate is transferred via a radial conveyor, situated within the enclosed section of the building, to the loading head.

Portland Cement (CEM-I) and Pulverised Fuel Ash (PFA) is delivered to the site by bulk tanker and is discharged pneumatically to the three, correctly labelled, 60 tonne storage silos. As the cement is discharged into the silo displaced air is released through the self-cleansing Silotop R01 reverse jet filters to prevent the release of particulate matter. The silos are fitted with a pressure relief valve, automated high-pressure cut out system, and with visual and audible high level alarms. The internal transfer of cement is achieved by enclosed augers located in the enclosed section of the building.

All materials, including water and other liquid admixtures as required, are fed directly into the collection vehicle. Dust suppression, during this process, is achieved by the use of a spray-bar system.
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.

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 and other cementitious materials shall only be stored within the three bulk cement silos, marked Silo1, Silo2 & Silo3 on Plan A.

5. Dust emissions from loading or unloading road tankers shall be minimised by the operation of the Silotop R01 Reverse Jet filters; by back-venting to a delivery tanker fitted with an on-board, truck-mounted relief valve and filtration system and by connecting transfer lines first to the delivery inlet point and then to the tanker discharge point. Delivery shall be at a rate which does not pressurise the silo.

6. Silos and bulk containers of dusty materials shall not be overfilled and there shall be an audible and visual, overfilling alarm.

7. When loading silos which were new after June 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 the aggregate and other storage bays as detailed on drawing reference number C32/13/01 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 using the aggregate radial conveyor and enclosed cement auger, located within the enclosed section of the building.

Loading, unloading and transport

11. No potentially dusty materials (including wastes) or finished products shall arrive on or leave the site other than by tankers with an on-board (truck mounted) relief valve and filtration system, or in the case of sand and waste via tipper trucks with covered bodies. The dust suppression spray bar shall be operational during the discharge of cementitious material into the truck mixer.

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 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 24 months. They and a copy of all manufacturer's instructions referred to in this permit 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.

.......................................................... (signature)  23 September 2014    (date)

Designation:
Head of Refuse and Environment Service
Authorised by Cambridge City Council
<table>
<thead>
<tr>
<th>Row</th>
<th>Substance</th>
<th>Source</th>
<th>Emission limits/provisions</th>
<th>Type of monitoring</th>
<th>Monitoring frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Particulate matter</td>
<td>Whole Process</td>
<td>No visible airborne emission to cross the site boundary where harm or nuisance may be cause</td>
<td>Operator observations</td>
<td>At least daily</td>
</tr>
<tr>
<td></td>
<td>Silo inlets and outlets (for sites new since 1st July 2004)</td>
<td>Designed to emit less than 10mg/m³</td>
<td>Operator observations</td>
<td>At time of delivery</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Silo inlets and outlets</td>
<td></td>
<td>No visible emission</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ammonia equipment, or any point where dust contaminated air is extracted from the process to atmosphere, with exhaust flow &gt;300m³/min, (other than silo ammonia plant)</td>
<td>50mg/m³</td>
<td>Recorded indicative Monitoring</td>
<td>Continuous</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ammonia equipment, or any point where dust contaminated air is extracted from the process to atmosphere, with exhaust flow &gt;100m³/min, (other than silo ammonia plant)</td>
<td>No visible emission. Ammonia equipment should be provided with a design guarantee that the equipment can meet 50mg/m³</td>
<td>Indicative monitoring to demonstrate that the equipment is functioning correctly</td>
<td>Continuous</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ammonia equipment, or any point where dust contaminated air is extracted from the process to atmosphere, with exhaust flow &lt;100m³/min, (other than silo ammonia plant)</td>
<td>No visible emission. Ammonia equipment should be provided with a design guarantee that the equipment can meet 50mg/m³</td>
<td>Indicative monitoring to demonstrate that the equipment is functioning correctly</td>
<td>Continuous</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Droplets, persistent mist and fume</td>
<td>All emissions to air (except steam and condensed water vapour)</td>
<td>No droplets, no persistent mist, no persistent fume. Visual observations</td>
<td>At least daily or Continuous</td>
<td></td>
</tr>
</tbody>
</table>

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: 273K, 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.
EXPLANATORY NOTES FOR USE WITH MICK GEORGE CONCRETE LIMITED, CAMBRIDGE TRANSFER STATION, ST JOHN'S INNOVATION PARK, COWLEY ROAD, CAMBRIDGE PERMIT No 2014/58

This note does not comprise part of Permit 2014/58 but contains guidance relevant to the permit.

A  This permit is issued under the Pollution Prevention and Control Act 1999. The responsibilities you have under legislation for health, safety and welfare in the workplace remain in force.

B  This permit does not detract from any other statutory requirements needed for the operation of the process, such as the need to obtain planning permission, hazardous substances consent, discharge consent from Environmental Agency, building regulations approval or a waste disposal licence.

C  The permitted operator who wishes to transfer the permit to a person who proposes to carry out the activity in the holder’s place may do so in accordance with regulation 21. Both the operator and the proposed transferee shall jointly make an application to the regulator to effect the transfer. An application shall include the permit and any fee prescribed in respect of the transfer under regulation 65 and shall contain the operator’s and the proposed transferee’s contact details.

D  The permitted operator who wishes to vary the conditions of the permit under regulation 20 must make an application to the regulator. Such application shall be made in accordance with Part 1 of Schedule 5 and shall be accompanied by any fee prescribed in respect of the application under regulation 65.
E Operators of permitted activities may be liable to enforcement action if they make a change without approval that is such that either the activity (as changed) is not the activity that is permitted, or a condition of the permit is not being complied with as a result of the change being made.

F Operators should have regard to:
The Environmental Permitting (England and Wales) Regulations 2010

G Effective control of emissions requires proper use and maintenance of the equipment and the proper supervision of activity operations. Effective preventative maintenance must be employed on all plant and equipment concerned with the control of emissions to air.

H Essential spares and consumables should be held (or be available locally at short notice) for all arrestment plant. Alternatively either a service contract for the arrestment plant, which includes a priority attendance requirement for arrestment plant failure, should be held with a suitable contractor or a mobile service and repair engineer carrying essential spares and consumables should be employed by the company.

I Staff at all levels should receive proper training and instruction in their duties relating to the control of the activity and emissions to air. Particular emphasis should be given to training for start up, shut down and abnormal conditions.

J Dark smoke has the same meaning as in Section 3 of the Clean Air Act 1993, namely smoke as dark or darker than Shade 2 of the Ringlemann Chart.
K Black smoke has the same meaning as in the Dark Smoke (Permitted Periods) Regulations 1958, namely smoke as dark or darker than Shade 4 of the Ringlemann Chart.

L The activity operator may retain non current log books off site provided these are made available for inspection to an authorised officer within one working day.

M Cambridge City Council's enforcement of your permit will be in accordance with the Regulators' Compliance Code. A copy is on the Business, Innovation and Skills Department website: http://www.bis.gov.uk/files/file45019.pdf