Construction Environment Management Plan (CEMP)

Proposed Bag Filter at Cauldon Cement Plant

1 Context

1.1 This document relates to the development outlined above, which is proposed at Cauldon Cement Plant, Earlsway, Waterhouses, Staffordshire. This Construction Environment Management Plan (CEMP) is prepared by Heatons on behalf of the site's operator.

1.2 Compliance with this CEMP will ensure that the installation of the bag filter is compliant with relevant legislation and minimise the impacts on the local community, the transport network, and the environment.

1.3 The operator will make adherence to this CEMP a contractual requirement for the development project. It is to cover the management of a contractors' activities and those of any sub-contractor working under the main contractor's control. The CEMP defines the minimum requirements that have to be met.

1.4 The appointed Project Manager is to ensure that the existence of this CEMP is made known to all personnel on site. A site induction shall address the issues in this CEMP.

2 Scope of this CEMP

2.1 The CEMP addresses the following:

- Site Waste Management;
- Construction Timing;
- Noise and Vibration;
- Air Quality;
- Water Pollution / Protection of Water Resources;

- Light Pollution;
- Construction Traffic Management;
- Maintenance of Access to Neighbouring Properties;
- Ecological Management in Construction;
- Community Responsibility; and
- Complaints Procedure.

2.2 The bullet points above are addressed in this CEMP on a chapter-by-chapter basis, as below.

3 Site Waste Management

3.1 Generation of waste will be kept to a minimum wherever possible. However, where waste is generated, the operator will take all practical measures to ensure that all rubbish, debris, and surplus material materials are appropriately and secured stored prior to their disposal. All waste will be regularly removed to keep the site as clean and tidy as possible.

3.2 For the avoidance of all doubt, a 'no burning of waste' policy shall be adhered to by contractors on site.

4 Construction Timing

4.1 Existing structures close to the location of the bag filter may be used seasonally by nesting peregrines. In order to avoid the potential for adverse impact on nesting peregrines, all installation works will be seasonally-timed to avoid the peregrine nesting season. Therefore, no construction works above ground level will take place between the beginning of March and the end of May in any calendar year.

5 Noise and Vibration

5.1 The following measures are proposed to avoid/minimise noise-generation wherever possible:

Health and Safety:

5.2 It is considered that there are no off-site publicly-accessible areas in which the health of safety of members of the public could be compromised. Therefore,

the scope of Health and Safety measures below are limited to site staff and on-site contractors.

- Wherever possible, noise levels will be reduced at source through the careful selection of plant, with plant and equipment maintained in a good state of repair;
- Ear protection must be worn in compliance with contractor's own health and safety standards.

Operational Practices:

- All plant, machines, and equipment in intermittent use should be shut down in the intervening periods between work or throttled down to a minimum;
- Materials should be handled with care and whenever practicable not dropped;
- Deliveries to site will be planned in off peak periods where practicable.

Maintenance:

- Noise caused by resonance of body panels and cover plates of machinery could be reduced by stiffening with additional ribs or by increasing the damping effect with a surface coating of special resonance damping material;
- Regular and effective maintenance of plant, machinery, and equipment by trained personnel to reduce noise wherever possible.

Plant Specification:

- If necessary, acoustic enclosures should be provided and/or acoustic screening for ancillary equipment such as generators;
- Where available and practicable, electrically powered plant will be used as opposed to diesel or petrol driven;
- All ancillary plant such as generators, compressors and pumps should be positioned so as to cause minimum noise disturbance.

Project Manager

5.3 In addition to the above, aural noise monitoring will be undertaken on a continuous basis by the Project Manager, in order to identify significantly noisy

activities and ensure that site noise is kept to a minimum. The Project Manager will also check that plant, machinery and equipment are operating normally and without fault.

6 Air Quality

6.1 Part III of the Environmental Protection Act 1990 identifies the emission of dust from construction sites as having the potential to be a statutory nuisance and requires its control under Section 80. Construction site activities relevant to the proposed development with potential air quality / dust impacts are: installation of the bag filter itself, and trackout.

6.2 The location of the site and the planned location of the bag filter do not give rise to a serious risk to air quality during the installation process.

6.3 However, contractors will be expected to take measures to minimise the presence of airborne dust during construction. The following measures are to be taken:

- Design controls are to be implemented for construction equipment and vehicles, and appropriately designed vehicles are to be used for materials handling; and
- The site is to be regularly inspected and site boundaries checked for dust deposits and removed as necessary. In addition, local roads are to be checked and cleaned when necessary.

7 Water Pollution / Protection of Water Resources

7.1 The following activities give rise to potential risks to water course contamination. Proposed mitigating measures against this have been identified.

<u>Deliveries</u>

7.2 Special care is to be taken during deliveries, especially when fuels and hazardous materials are being handled. All deliveries are to be supervised by a responsible person so that storage tank levels are checked before delivery to prevent overfilling and that the product is delivered to the correct tank. Contingency plans are to be agreed and suitable materials available to deal with any incident that occurs. All employees are to be briefed on the actions that are required in the event of a spillage. Any spillages are to be recorded

and advised to the client who will inform the relevant bodies should they deem it significant.

Storage

7.3 Many of the materials used in construction operations, such as oil, chemicals, cement, lime, cleaning materials and paint have the potential to cause serious pollution. All fuel, oil and chemical storage must be sited on an impervious base within a bund and secured. The base and bund walls must be impermeable to the material stored and of an adequate capacity. Leaking or empty oil drums must be removed from the site immediately and disposed of via a licensed waste disposal contractor. The contents of any tank are to be clearly marked on the tank, and a notice displayed requiring that valves and trigger guns be locked when not in use.

Security

7.4 All valves and trigger guns are to be protected from vandalism and unauthorised interference and turned off and securely locked when not in use. Any tanks or drums are to be stored in a secure container(s), which is to be kept locked when not in use. Bowsers should be stored within site security compounds when not in use.

Plant and wheel washing

7.5 Established wheel washing and plant washing facilities are present at the Cement Plant. These will be made available to contractors.

Refuelling

7.6 The risk of spilling of fuel is at its greatest during the refuelling of plant. A spill kit is to be available wherever refuelling takes place. Hoses and valves are to be checked regularly for signs of wear and turned off and securely locked when not in use. Diesel pumps and similar equipment are to be placed on drip trays to collect minor spillages. These should be checked regularly and any accumulated oil removed for disposal.

Concrete

7.7 Concrete is highly alkaline and corrosive and can have a serious impact on watercourses. It is essential to take particular care with all works involving concrete and cement. Suitable provision is to be made for the washing out of concrete mixing plant or ready mix concrete lorries so that washings do not

flow into any drain or watercourse or seep underground. In the event of a spillage on site, the material must be contained (using an absorbent material such as sand or soil or commercially available booms). All spillages are to be recorded and advised to the operator who will inform the Environment Agency In the event of a significant occurrence.

8 Light Pollution

8.1 Temporary external lighting will only be used when necessary to carry out construction works with a safe lighting level. Temporary column lighting, if used, will be directed only to where necessary, with excessive lumen levels prohibited.

9 Construction Traffic Management

9.1 It is considered that construction activities are unlikely to aggravate peak hour traffic congestion on the local road infrastructure.

9.2 All contractors' parking is to be on-site within Cauldon Cement Plant. There is to be no parking of contractors' staff or deliveries on Earlsway.

9.3 It is acknowledged that it is an offence under Section 148 of the Highways Act 1980 to deposit mud/detritus on the highway that would interrupt other users of the highway. Wheel and plant washing facilities are present at the Cement Plant and will be made available to construction contractors.

9.4 Although the site consists entirely of previously developed land, in order to prevent vehicles leaving the site and onto the public highway inadvertently carrying mud/detritus, primary measures are to be implemented to prevent deposition of mud/detritus from leaving the site. These include:

- Clearance of mud and debris from all areas that will support vehicle traffic, as and when required, to minimise the potential for vehicles to collect such materials within their wheels prior to exiting the site;
- Visual inspection of vehicles exiting site to ensure that departing vehicles are not inadvertently carrying deposits of mud/detritus that could deposit on the public highway;
- In any instances where vehicle cleaning may fail a visual inspection and the public highway is adversely impacted upon by site-sourced debris, a mechanical road sweeper will be utilised.

9.5 All contractors and sub-contractors will be conversant with the need to prevent the depositing of materials onto the public highway.

10 Maintenance of Access to Neighbouring Properties

10.1 The proposed construction activities will not impede access to, or operation of, any adjacent or nearby property.

11 Ecological Management in Construction

11.1 As stated in Section 4 of this CEMP, all construction activities will be seasonally-timed to avoid the potential for adverse impact on nesting peregrines. No construction works will take place between the beginning of March and the end of May in any calendar year.

11.2 A precautionary approach will also be taken in order to avoid any contravention of wildlife legislation should any clearance works be required.

12 Community Responsibility

12.1 The operator expects appointed contractor(s) to embrace the objectives of the Considerate Constructors Scheme.

12.2 Community Liaison Committee Meeting will continue to provide an opportunity for the local community to raise any issues relating to the development and its construction process. An Environment Co-Ordinator will continue to be employed based at Cauldon, as at present, to address concerns should any arise outside of formal Community Liaison Committee framework.

13 Complaints Procedure:

13.1 It is always preferable to address site issues that could lead to complaints before a complaint is received. All contractors are responsible for ensuring good practice and will report practices not in accordance with this CEMP to the Project Manager without delay.

13.2 Should a complaint be received, good neighbour procedures will be observed.

13.3 Upon any contractor receiving a complaint of any nature, they will inform the appointed Project Manager who will be responsible for administering the complaints procedure. Complaints will be investigated to isolate the source and attenuation/control measures will be taken, if required, to rectify the issue. For example, a noise complaint will result in isolation of the source of

noise followed by implementing measures to ensure noise levels remain within acceptable levels.

14 Conclusions

14.1 Overall, the measures proposed within this CEMP are considered appropriate and deliverable in ensuring compliance with relevant legislation and minimisation of the impacts on sensitive receptors including humans and the environment.