



### **Construction Environmental Management Plan & Construction Traffic Management Plan**

This Construction Environmental Management Plan (CEMP) & Construction Traffic Management Plan (CTMP) has been compiled for the proposed new build extension to the education centre at Barnsley Hospital on Gawber Road, Barnsley, S75 2EP.

#### **Roles and Responsibilities**

The Project Manager would have overall responsibility for the project being responsible for the development and implementation of the CTMP/CEMP. Other members of the project team would also be assigned specific roles and would be responsible for the correct application of the CTMP/CEMP. Individual specialists may also be appointed to provide expert advice. Specific roles are described below:

#### **Project Manager**

The Project Manager would have overall responsibility for environmental performance throughout the construction period and would ensure that appropriate resources are made available and environmental control and any agreed or appropriate protection measures are implemented.

They would be responsible for co-ordinating and managing all the environmental activities during the construction phase and would carry out the following duties:

- Develop and review the CTMP/CEMP and specialist procedures
- Lead the appointment of construction staff and environmental specialists
- Ensure delivery of environmental training to personnel within the project team
- Monitor construction activities and performance to ensure compliance with the CTMP/CEMP
- Identified and appropriate control measures are being effective
- Act as a main point of contact between the regulatory authorities

#### **Site Manager**

A full time Site Manager would be responsible for the traffic management plan. They would carry out the following duties:

- Provide up to date TM plan and adapt this with permission as required
- Support the Project Manager in delivering the environmental components of the project
- Monitor construction activities and performance to ensure control measures are effective
- Maintain full records of the progress of the Environmental Work
- Implement an auditable environment record filing system
- Maintain regular contact and liaison with the Environmental Specialists and
- Carry out audits as required
- Deal with complaints and communicate with Project Manager, operatives and public
- Implement and monitor measures to ensure correct waste minimisation and disposal

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### **Environmental Specialists**

A team of Environmental Specialists would support the project on a part-time basis, if required. Their role would be to undertake the required briefs during construction and to assist the project team with specific issues if they arise during the project.

### **Communication**

Clear communications on the project would be achieved through periodic meetings attended by representatives from our team, major subcontractors, and the clients Project Manager. Consideration will be given to past performance – from the results of inspections, environmental monitoring, and any complaints - and would look ahead to plan actions required to prevent or mitigate forthcoming risks and disseminate best practice.

### **Training and Awareness**

A project specific training plan will be produced to ensure personnel allocated with environmental responsibilities are competent to carry out their duties. As a minimum, all staff would receive an environmental briefing as part of their site induction. Supervisors would support information provided at induction through completing briefings and 'toolbox talks' prior to specific activities commencing.

### **Operational**

All activities on site would be reviewed against the requirements of the CTMP/CEMP via an integrated risk assessment and method statement procedure. The relevant construction teams would review environmental risks associated with the construction process and appropriate control measures included in method statements and field control sheets. Mitigation or protection measures that are agreed with statutory authorities would be implemented prior to the undertaking of any potentially polluting activities and would form the basis of briefings.

All Method Statements would be approved by the Project Manager and where necessary the relevant specialist.

### **Quality Checks**

Construction teams using a field inspection sheet would carry out day to day monitoring of construction activities. In addition, a weekly inspection would be completed by each of the appointed Site Manager against a suite of agreed site standards. The Project Manager would also carry out a monthly assessment of the project's environmental performance, based upon the performance measured by Site Managers during the period, environmental monitoring undertaken and his/her own site inspections.

Regular audits would be completed to verify that the Project is compliant with the established CTMP/CEMP, contractual requirements and legislation.

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### **Welfare Facilities**

Canteen, toilet and washing facilities (appropriate to the number of operatives on site) will be made available for use by operatives. Access to hot/cold water will be provided during the works. All facilities provided within the site will be kept in a clean and tidy condition.

### **Site Security**

We will install appropriate site fencing for the duration of the project, this will segregate construction works throughout the contract period.

The site shall be protected by the following procedures: Warning notices shall be placed around the site, including notices warning of “no unauthorised entry” and that all visitors must report to the site manager. All employees shall have their names recorded in the site register and shall be informed that no unauthorised persons shall be permitted onto site. Authorisation can only come from site management – except in the case of emergency. Any new staff or visitors must receive a site induction and sign to confirm receipt of this talk, which will include safety rules. The procedure above shall ensure that everyone except authorised persons is excluded from the workplace. Any person found on site without authorisation will be removed by the Site Manager.

### **Site Parking**

On-site parking is available within all hospital pay and display facilities.

### **Site Working Hours and Deliveries**

Site working hours are 07:00am until 17:00pm Monday to Friday.

Deliveries will be taken through the primary entrance on Pogmoor Road, and we will implement a one-way traffic management system. All vehicles will be retained on the existing hard standing, to ensure wheels are kept clean at all times. All wheels will be inspected by designated person before entering the highway. Please see below traffic management plan.

### **Environmental and Pollution Control Measures**

To reduce the potential of nuisance being caused by construction activities, the Contractor will introduce control measures when developing construction programmes and methods of work.

Specific procedures to manage the key environmental aspects of the project would be developed by the Contractor prior to work commencing. This will include the following:

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### **Noise and Vibration Management**

Strict controls on the sequencing of works and providing noise protection would be developed on an activity by-activity basis.

The adoption of Best Practicable Means, as defined in the Control of Pollution Act 1974 is usually the most effective means of controlling noise from construction sites. In addition, the adoption of the control techniques in line with BS 5228 2009 Parts 1 & 2 are to be used as far as reasonably practicable. In addition, the following measures will be considered, where appropriate:

All mitigation bunds would be constructed at the earliest opportunity. Local hoarding, screens or barriers would be erected as necessary to shield particularly noisy and dusty activities.

On site noise levels would be monitored regularly, particularly when changes in process are required or in response to complaints. The monitoring would be in accordance with the guidance set out in Annex E of BS5228: Part 1:2009.

Any compressors brought onsite would be silenced or sound reduced models fitted with acoustic enclosures.

All pneumatic tools would be fitted with silencers or mufflers.

Deliveries would be programmed to arrive during daytime and out of main school hours only. Care would be taken when unloading vehicles to minimise noise. Delivery vehicles would be routed so as to minimise disturbance to local residents. Delivery vehicles would be prohibited from waiting within the site with their engines running.

All plant items would be properly maintained and operated according to manufacturer's recommendations in such a manner as to avoid causing excessive noise. All plant would be sited so that the noise impact at nearby noise sensitive properties is minimised.

Where reasonably practicable plant and/or methods of work causing significant levels of vibration at sensitive premises should be replaced by other less intrusive plant and/or methods of working.

### **Dust and Air Quality**

During any construction works, water should be used as a dust suppressant during any material processing. A banksman should be positioned at a suitable distance away from the area of works and proceed to fine spray water during any processes likely to emit dust (i.e. Scappling concrete, cutting concrete/ stone, dry raking mortar etc) to suppress any dust emitted.

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A designated material storage area (high risk area) is to be formed on the lower hardstanding play area to the rear (south to southwest) of the proposed construction site. This area should be designated for high risk activities including site compounds/ parking areas, refuelling areas, chemical (including fuel) storage, vehicle and equipment washing areas. The high- risk area should contain a bund with a base created from an impermeable surface with a surface area capable of holding double the volume of the materials to be stored.

Any piles of aggregates and powders, such as sand and cement, which are left on site should be covered when not in use by thick tarpaulin or similar to prevent wind dispersal. This should be checked at regular intervals to ensure its integrity. Powders retained on site should be stored within a designated area away from the location of the river and adjacent ditch network.

Skips and vehicles containing aggregates should be continually dampened with low levels of fine sprayed water to reduce dust. No materials should be crushed on site to prevent arisings contaminating adjacent watercourses.

Any aggregates brought onto the site should be fine sprayed with water to minimise dust levels and produce a clean aggregate.

Any wastewater associated with dust suppression and general site activities should be stored in settlement tanks then screened and clean water discharged (subject to the relevant legislation). The disposal of contaminants and sludge arising from site workings should be disposed of according to the relevant environmental regulation.

Site staff should be inducted in environmentally sensitive working practices outlining measures to prevent contamination of adjacent water courses. An emergency procedure plan should be implemented prior to the onset of works and all site staff inducted.

Dust control and monitoring measures will be implemented as far as reasonably practicable using the guidance contained in line with the “The control of dust and emissions from construction and demolition”. Best Practice Guide November 2006 London Councils. The following measures will also be considered.

Seeding and sealing of topsoil stockpiles

Sheeting of vehicles transporting materials to and from the site

Limiting the speed of site vehicles to 10mph (not including dump trucks)

Applying a coarse gravel surface (or similar) along the haulage road, where considered appropriate

Placing plant as far as possible from sensitive areas and switching engines off when not in use

Provision of a wheel washing facility and/or regular use of road sweepers at access points and on local roads (to remove mud from public highways)

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Damping down of haul roads

Note: Visual monitoring to be carried out at sensitive locations on a daily basis.

### **Water Pollution**

Suitable protection for watercourses potentially affected by the works would be installed prior to relevant works proceeding. These measures would be in-line with Environment Agency Pollution Prevention Guidelines.

Protection and control measures will be developed to include where practicable:

The main compound will have an impermeable and bunded surface to its vehicle maintenance and fuel storage areas, with a closed drainage system equipped with both a silt settlement facility and oil interceptor. Bunded storage areas, located in main compounds, would be provided for the duration of the construction period for the storage of oils, fuels, chemical and other hazardous construction materials. Local storage of these materials will also be within bunded facilities.

Plant and equipment would be stored in those areas designated as being less susceptible to possible pollution incidents, or on dedicated hard standing.

All mobile plant will be equipped with spill kits.

Wastewater from the temporary staff toilets and washing facilities would be discharged to sealed containment systems and disposed via licensed contractors.

The site construction compound will have a contained drainage system and would be equipped with a facility for recycling aggregates.

Early seeding of embankments near watercourses would be undertaken to reduce the potential for sediment run-off.

Monitoring of the watercourses potentially affected by the works would be undertaken, at a minimum frequency of once per week whilst construction operations are in progress.

### **Site Environmental Control Plan – Pollution of Water Courses General Control Measures**

#### Welfare & Silty water (excavations)

Welfare water will be discharged to the nearest sewer under permission from the sewerage undertaker or if a private sewer system the landowner.

Water from excavations will also be discharged to the sewer system under the same permission.

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### Oil Storage & Refuelling

The use of biodegradable oils will be considered wherever possible.

All fuel, oil, lubricant and chemicals storage shall be sited on an impervious base, within a bund and secured.

The base and bund shall be impermeable to the material stored.

The bunded area shall have a capacity of at least 110% of the volume of the largest tank.

Bunded areas shall have no outlet.

Delivery points and vent pipes shall be within the bund.

Bunds shall be regularly checked.

Disposal of contents of bunded area shall be via licensed waste disposal contractor.

Leaky or empty drums shall be removed from site immediately.

Delivery hoses from tanks shall have shut off valves.

Plant Nappys (drip trays) to be used for pumps and equipment to ensure no escape of oil and diesel into drains.

Mobile plant shall be refuelled in a designated area on an impermeable surface away from drains and watercourses.

Plant and vehicles shall be supervised during refuelling.

Deadman handle trigger guns shall be used.

Plant & equipment checked for signs of wear – fully serviced and checked on a daily basis.

All spills must be reported to site management regardless of extent or nature. An estimate of quantity is required. Site Management will assess level of response.

### Cement, Concrete and Grout

Concrete washout shall be in a designated area.

All concrete pouring and filling operations shall be supervised and monitored.

Concrete use shall be monitored.

Any drains in vicinity of concrete works will be covered.

Consider use of biodegradable shutter oils – handling, storage, use and disposal will be carefully controlled.

### Washout Area

Designated area set out for vehicle washout.

Washout area will be >10m away from watercourse.

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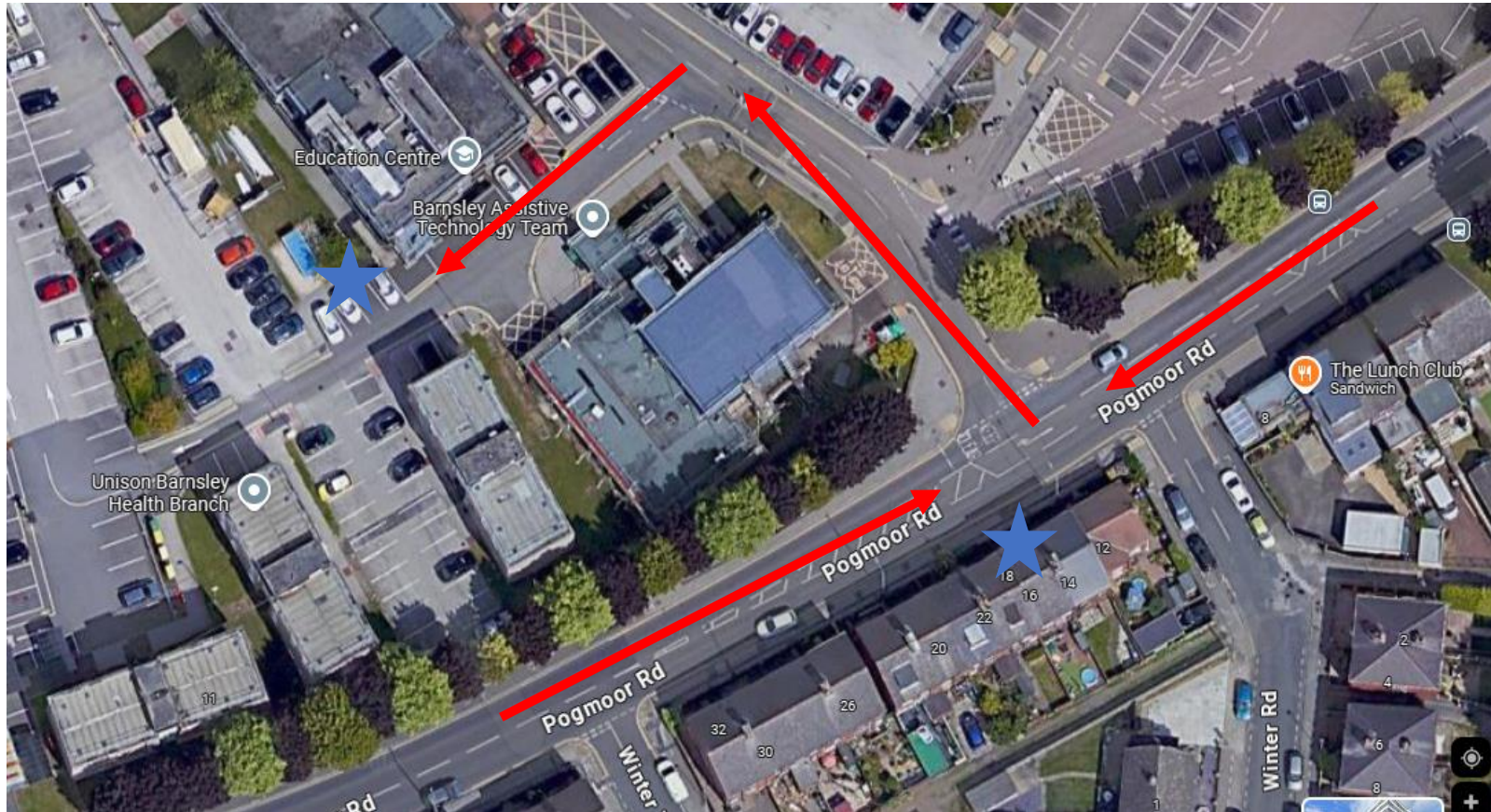
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**Appendix 8**



**RLX Site Entrance**



All deliveries to be timed and booked in with Project Manager.

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