

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN

Job Number: LKM 18 1011
Date of Report: 27th July 2020
Site: Former Monckton Coke and Chemical
Works



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Site Address	Former Monckton Coke and Chemical Works, Lund Hill Lane, Royston, S71 4BD		
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Document Title	Construction Environment Management Plan		
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FIGURES

Figure 1: Site Location Plan

Introduction

LK Management has been appointed by Monckton Developments Limited to compile a Construction, Environment Management Plan (CEMP) to accompany a planning application submitted to Barnsley Metropolitan Borough Council (BMBC) in relation to the proposed site remediation and development of up to 500 residential dwellings and approximately 400m² of commercial space, at the former Monckton Coke and Chemical Works, Lund Hill Lane, Royston, S71 4BD.

The proposed development site is approximately 16 hectares in extent and comprises the former Monckton Coke and Chemical works. A plan showing the location of the site is illustrated in Figure 1 of Appendix 1.1. The centre of the site has an approximate grid reference of 437450,411950.

This CEMP is a report to indicate how the main contractor may manage the site during the construction phase of the works.

1.0 Programme Summary

Programme details are in the preliminary stages of development and are subject to change dependent on the main contractors' availability, mobilisation periods and the employer's requirements. The following summary is intended as an outline only.

All subject to main contractors detailed project programme:

Site Set Up	- Q1 2021
Construction Phase	- TBC
Working hours	- 07:30 – 17:00

2.0 Parking Arrangements

There are no public parking spaces available along Lund Hill Lane and as such it is proposed that all site operatives and visitors to site park within a site compound within the red line boundary.

Due to the nature of previous uses of the site there are areas of the site that are easily accessed from the main road with good visibility splays. These access and egress points are also those used during the former operation of the plant where heavy goods vehicles will have accessed the site previously.

The main contractor will be encouraged to promote shared transport and public transport to limit vehicles arriving at site. There are two bus stops within 100m of the existing site entrance.

3.0 Locations for the Storage of Building Materials

All building materials will be stored in designated site compounds. To enable safe site operations, a site compound area is instrumental to afford the unloading, storage and distribution of materials. The site compound will be segregated from the works area by temporary fencing, to ensure site staff and operatives' safety is maintained.

The site supervisor will assist in the safe unloading of deliveries. Materials will be unloaded by means of mechanical lifting equipment where possible. Materials will then be manually transported by site operatives, along the designated paths, to the site compound.

On completion of the project the site compound will be removed and a permanent surface will be reinstated.

4.0 Locations for the Storage of Construction Debris

It is likely that the site will require some form of enabling / remediation works and the processes involved will be described further in subsequent site investigations and the remediation strategy.

All construction debris will be transported directly to on site skips and or wagons. The main contractor will be required to ensure that no debris, other than that stored in skips, is left on site at the end of the working day other than material to be processed for hardstanding or re-engineering of soils.

5.0 Locations for the Storage of Contractors Offices

The main contractor will be required to allow for the set-up of Portakabin type contractors offices for the duration of the works within the site area.

The final location for the site offices and site compound will be further defined when a contractor is able to define the phasing, programme and methodology for construction.

6.0 Site Security

Security of the site will be applied through the application of physical and operational measures.

Physical measures are infrastructure designed and deployed to support security, the main contractor will be required to ensure the following physical measures are in place:

- a) Containment and Obstacles (fences, barriers, bollards, gates, secure storage etc)
- b) Technical Systems (lighting, CCTV, access control systems, intruder detection, asset management and control systems etc)
- c) Containment is applied to the perimeter of construction sites, to delineate the area under control, prevent accidents to non-site personnel and to deter access to unauthorised personnel.
- d) Gates and other perimeter openings will be designed in such a way as to permit control and blocking of inbound and outbound foot and vehicular traffic.
- e) Secure storage to be provided for high-value tools and equipment and for control and secure parking of high value plant.
- f) Site staff will be required to return plant and materials to the secure areas after use.
- g) Keys for vehicles and plant will be secured properly when not in use.
- h) Technical systems will be deployed, to include CCTV, alarm systems and adequate lighting

The main contractors' security measures will be reviewed on a weekly basis as the project progresses.

7.0 Details of Wheel Washing / Road Cleaning

The main contractor will be required to ensure the wheels of all vehicles entering the site will be clean before leaving the site. Depending on ground conditions it may be necessary to provide a dedicated wheel wash or jet wash / decontamination zone adjacent to the entrance / exit routes to the site.

If any debris or soil that is spread off site by wagon wheels during demolition and or construction then this will be cleaned immediately by hand brush and / or a road sweeper where necessary. The roads entering and exiting the site will be kept clear and safe at all times.

8.0 Dust Mitigation and Suppression Measures

The contractor will be required to implement the following measures to control the spread of dust, smell and other effluvia:

- a) High dust emitting areas of work to be fenced off with 1200 gauge membranes
- b) Locate machinery and dust generating activities away from receptors
- c) Create a physical distance and/or barrier between dust/emission generating activities and receptors
- d) Install solid screens or barriers around dust generating activities. These should be at least as high as any stockpiles onsite
- e) Cover stockpiles to prevent wind whipping
- f) Remove loose materials as soon as possible
- g) Hoardings, fencing, barriers and scaffolding should be regularly cleaned using wet methods
- h) Where possible cutting, grinding and sawing to be conducted off-site and prefabricated material and modules to be brought in.
- i) In cases where on site cutting and grinding must take place the main contractor will ensure that spraying water, from a water efficient spray pump, over the material as it is being cut will be implemented
- j) Skips, chutes and conveyors will be completely covered to ensure that dust does not escape.
- k) Similarly, drop heights will be minimised to control the fall of materials.
- l) During earthworks and groundworks, dust generating activities will be wetted with a water bowser and jet wash to keep dust minimised.

It is intended to review the effectiveness of the above dust mitigation measure as part of the weekly site meetings.

9.0 Removal of soils / demolition arising from site

Soil waste will be mechanically transported to Waste Management Areas (WMA's) skips and wagons located within the WMA to receive and transport waste from site. Where possible, soils and arisings that are to be removed from site will be directly loaded into wagons to reduce double handling and the creation of dust.

The main contractor will be required to coordinate the removal and changeover of skips and wagons to ensure traffic flow is not adversely impacted. The roadside will be supervised by site operatives during delivery and vehicle movements.

The main contractor will be required to ensure the flow of traffic or use of footpaths is not restricted during the works.

10.0 Noise & Vibration Mitigation Measures

The main contractor will be required to ensure neighboring properties are not adversely affected by noise and vibration.

Under section 60 of the Control of Pollution Act 1974 the Local Authority has powers to control noise and vibration from construction sites. The following mitigation measures are intended to create a proactive approach to noise and vibration and ensure the impact on neighboring properties are minimised:

- a) The timing of noisy operations will be carried out between 9am and 6pm Monday to Friday. Noisy works required outside of these times will be carried out only with the prior agreement with the employer.
- b) Sub-contractors will be required to ensure that "best practical means" to minimise noise from their activities are put in place.
- c) The use of radios or music equipment on site will be prohibited
- d) The main contractor will be required to ensure the proper maintenance of plant and equipment.
- e) The sub-contractor will be expected to provide details on the choice of appropriate plant for a particular task. Poorly maintained plant and equipment can give rise to excessive noise and the failure to use the built-in noise control shielding on plant can cause problems.
- f) The use of mains- powered electrical equipment will be encouraged (rather than using generators)
- g) All work to be carried out in to British Standards Institution BS 5228: Noise and Vibration control on construction and open sites Part 1-4 1997 Code of practice.
- h) Depending on the final method of foundation / piling treatment, certain methods of vibration monitoring may be required on site to provide reassurance to the main contractor and external parties.

Other plant that will be utilised will be typical for a site and will contain the following items for example;

13 tonne tracked excavator	20 tonne tracked excavator
9 tonne dumpers	Mini excavator
Roller	Breaker attachment
Small mobile crane	Muncher attachment
Cherry pickers and MEWP's	Telehandler
Articulated dumpers	20 tonne Wagons

11.0 Measures to prevent pollution

The contractor shall use fuel tanks with double bunded systems including a mobile drip tray to minimise the impact of any fuel or lubricant spillages. Furthermore there shall be a fenced off area signed and dedicated to refueling that is easy to access for tankers and machines that require refueling.

A spill kit shall be located next to the refueling area and will include as a minimum the following items;

- Protective clothing (gloves, overalls, overshoes, safety goggles)
- Absorbent materials (paper towels, spill pads, spill socks)
- Disposal bags with tape or twist ties
- Dustpan and polypropylene brush
- Container for waste
- Gully covers

Contact details shall also be located within the construction phase plan for Yorkshire Water. All open watercourses in the vicinity of the site to be identified and protected with signage and fencing.

Burning of materials or waste will not be allowed on site at any point.

12.0 Community engagement and complaint procedure

The employer and the main contractor will liaise with local residents who may be affected by the works. It is intended to ensure local residents are informed of the nature of the works, proposed hours of work and their expected duration. Communications will include the name and telephone number of a main contact (site manager) which will also be displayed on the site hoardings.

The site manager will be able to provide further information to the caller and deal with any complaints or emergencies that may arise at any time.

The main contractor will be required to make their complaints procedure available to the employer and hold copies on site.

All complaints are to be investigated in accordance with the main contractors' complaints procedure in the first instance. If the complaint cannot be resolved to the satisfaction of the client then the matter will be referred to the employer.

A record will be kept on site of any complaints that are logged along with details of subsequent investigations and any mitigation methods implemented or work practice that has been modified. Such records are to be made available to the employer and / or the local authority on request.

All site staff are to be regularly briefed regarding the complaints procedure.

13.0 Site Management and Access

Access gates will be manned during site hours and locked shut out of hours and will be located off Lund Hill Lane. Appropriate signage will be displayed in both directions of Lund Hill Lane to indicate to the public where access and egress points are located including relevant warning signs.

The main contractor will provide a traffic management plan within the Construction Phase Plan which will be adapted during the different phases of the construction.

The main contractor will be required to take full responsibility of controlling the pavement sweeping operations, ensuring all the approaching footpaths and driveway are kept clean at all times and ensure the site is kept in a clean and tidy condition throughout all phases of the construction works.

Throughout the project the main contractor will be required to enforce a "Good Housekeeping" regime. A strategy will be incorporated into the site induction to ensure that all operatives engaged on the works are familiar with the work in progress, skilled at their task, aware of their duties and responsibilities to others and knowledgeable of the site rules.

All works will adhere to a Site Waste Management Plan (SWMP) and will be managed by the main contractor throughout the works.

14.0 Construction Methods

Special attention will be given to working adjacent to the neighboring rail line. Work package specific method statements will be received from the main contractor and each sub-contractor prior to work starting on site.

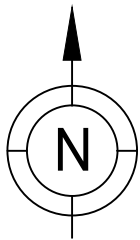
All excavations and work areas will be adequately fenced and sign posted. Pedestrian routes through the site (for authorised personnel only) will be clearly marked and swept twice daily.

All personnel on site will wear full Personnel Protective Equipment at all times and all operations will be carried out in accordance with approved risk assessments and method statements and in accordance with the Construction (Design & Management) Regulations 2015.

A Covid-19 risk assessment and working policy will also be provided by the main contractor depending on the status of the virus at the time of the works commencement.

15.0 Appendices:

Appendix 1: Drawing Figure 1 Site plan



KEY

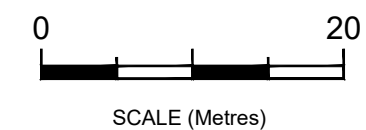


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