

Withington CDC- Tree/Shrubbery removal only



Construction Environmental Management Plan

Prepared By:	Paul Virdi
Project Name:	CDC Withington Hub
Tender Number:	HNW.0350
Site location:	Withington Hospital
Revision Number:	2
Revision Date:	07/02/2024

Uncontrolled when printed.

Revision Record			
Rev	Date	Revision Details	Revised by
1	11/01/2024		Paul Virdi
2	07/02/24		Paul Virdi

Table of Contents

1 Environmental Records

1.1 Environmental Records

2 Contractual Obligations

2.1 Contractual Obligation

3 Project Specific Environmental Aspects

3.1 Project Specific Environmental Aspects

4 Project Specific Environmental Controls

4.1 Introduction Project Specific Environmental Aspects

.

4.3 Ecology, Archaeology, and Rights of Way

4.4 Materials Management and Responsible Sourcing

4.5 Oil, Fuel and Liquid Chemical Storage

4.6 Nuisance Prevention

4.7 Water Pollution Prevention Measures

4.8 Contaminated Land

4.9 Other Control Measures

4.10 Training

4.11 Emergency Procedures

4.12 Resource Management Plan

Prepared by:

Paul Virdi

1 Environmental Records

1.1 Environmental Records

Details of the documents that need to be held on site are listed below.

All Key Performance Indicator Information will need to be recorded on BAM SMaRT.

Construction Environmental Management Plan (CEMP)

Action by

File Ref:

PV

15

Resource Management Plan (RMP)

Action by

File Ref:

PV

50-05, BAM SMaRT

Environmental Permit / Waste Management Licence / Exemptions, Carrier Registrations [off-site]

Action by

File Ref:

PV

BAM SMaRT

Environmental Permit / Exemption Certificate [on-site]

Action by

File Ref:

RB

50-05

Waste Transfer Notes

Action by

File Ref:

PV

BAM SMaRT

Street cleaning & septic tank duty of care information	
Action by	File Ref:
PV	50-05

Energy supply arrangements (type of supply, supplier, MPAN, MPRN, account number(s))	
Action by	File Ref:
PV	BAM SMaRT

Key Performance Indicator information (pollution incidents, energy use, mains water use, waste production, timber sustainability, environmental toolbox talks)	
Action by	File Ref:
	50-05, BAM SMaRT

Method Statements and Risk Assessments	
Action by	File Ref:
Site Manager	50-10

COSHH Assessments	
Action by	File Ref:
Site Manager	50-10

Site Incident Response Plans	
Action by	File Ref:
Site Manager	50-05

Regional Sustainability Advisor Visit Reports	
Action by	File Ref:
RB	BAM SMaRT/BIM360 Field

Section 60 / 80 Notices	
Action by	File Ref:
PV	50-05

Section 61 Consents	
Action by	File Ref:
PV	50-05

Part B Authorisations	
Action by	File Ref:
PV	50-05

Trade Effluent Consent	
Action by	File Ref:
N/A	50-05

Controlled Water Discharge Permit	
Action by	File Ref:
N/A	50-05

Other Consents (Archaeological, Hedge Removal, Tree Removal, etc.)	
Action by	File Ref:
PV	50-05

BREEAM	
Action by	File Ref:
PV	60

2 Contractual Obligations

2.1 Contractual Obligation

3 Project Specific Environmental Aspects

3.1 Project Specific Environmental Aspects

List all environmental Aspects (areas that will impact on the environment) identified from the [Environmental Pre-commencement checklist](#)

- Client requirements
- Planning restrictions / requirements
- Sustainable material procurement (including timber)
- Waste management (Refer to Resource Management Plan)
- Resource use
- Nuisance
- Contaminated land - TBC upon completion of surveys if applicable
- Earthworks
- Emergency procedures
- Hazardous chemicals (including fuel)
- Recycling waste on site (aggregates)
- Transport
- Local watercourses (including groundwater) - TBC upon completion of surveys if applicable
- Ecological issues / tree protection
- Water discharge / abstraction
- Concrete
- Maintaining clean roads
- Training & Awareness

4.3 Ecology, Archaeology, and Rights of Way

The following measures will be employed to protect the ecology on the site:

- All mature trees that are to be retained are to be protected in accordance with BS 5837. No work may be carried out within the fenced areas without prior approval of a method statement. No mechanical excavation will be allowed within the fenced areas. No materials to be stored in protection zones.
- If any Japanese knotweed is encountered, work within 7m of the plant will be stopped, the area cordoned off and the local environmental regulator will be contacted to confirm the presence of Japanese Knotweed. Further project specific controls will be implemented if required.
- If protected species are identified after work begins, or it is suspected that a protected species may be present, work will be stopped when it is safe to do so and access restricted to the affected area. The Species Protection Officer of the relevant authority ([Natural England](#), [Natural Resources Wales](#) or [Scottish Natural Heritage](#)) will be contacted to carry out a site survey to confirm presence of a protected species. Any advice on the preservation or relocation of the species will be followed as required.
- If any finds suspected of being of archaeological or historic interest are uncovered the following action will be taken:
 - Cease all work within the area immediately
 - Protect the area by fencing or other means
 - Contact the LPA and local authority archaeologist. Contact details for the local authority archaeologist can be found at: www.algao.org.uk
 - Depending on the find it may be necessary to obtain Scheduled Ancient Monument consent before continuing with the work
- If human skeletal remains or evidence of a burial ground are uncovered, the Police and the Coroner will be contacted in addition to the local authority archaeologist.
- Finds regarded as treasure (rare coins and artefacts) will not be removed from site without consent.
- (BREEAM statement for Land Use and Ecology Credits). The nominated Biodiversity Champion is **Paul Virdi** Who has the authority to influence site activities and ensure that detrimental impacts on site biodiversity are minimised in line with the recommendations of a Suitably Qualified Ecologist (SQA). A formal letter of appointment is to be saved as BREEAM Evidence.
- If the trees are required to be removed during the nesting season, an Ecologist is to be appointed to undertake a survey prior to removal.

4.4 Materials Management and Responsible Sourcing

The following materials management measures will be employed:

- All hazardous materials will be kept within a locked storage area and access to these materials will be restricted to those who have viewed the COSHH assessment for the particular material.
- Other materials are to be stored in designated storage areas as agreed with the Site Management.

This project is committed to BAM's responsible sourcing policy, and is committed to:

- Considering the impact on natural resources when choosing goods and materials.
- Promoting the application of 'Life Cycle Thinking' when considering specifications during the design, specification and construction process to reduce the impact of buildings over their whole life.
- Minimising the use of materials with a hazardous content and promoting the use of materials which can improve the health of building users.
- Procuring all new timber and wood based products (for temporary and permanent use) from certified legal and sustainable sources. This includes Grown in Britain (GiB), Forest Stewardship Council (FSC), and Programme for the Endorsement of Forest Certification (PEFC). Chain of Custody evidence is required to confirm compliance.
- Insisting that our subcontractors have an Environmental Policy and work to BAM's environmental procedures to ensure compliance with relevant environmental protection laws and regulations.
- Encouraging our supply chain to implement or to be working towards a UKAS accredited third-party certified Environmental Management System.
- Encouraging our supply chain to become active members of the Supply Chain Sustainability School.
- Supporting and giving preference to procuring products which are able to demonstrate compliance with a recognised responsible sourcing scheme, certified by a third party, such as BES 6001 or Cradle to Cradle.
- Supporting and giving preference to waste management contractors that hold PAS402 certification.
- Eliminating excessive packaging, with a particular focus on single-use plastics, without having a negative impact on the delivered goods.

4.5 Oil, Fuel and Liquid Chemical Storage

The storage of all BAM and Subcontractor oil containers with a capacity of 200ltrs or more will comply with the requirements of the Control of Pollution (Oil Storage) regulations. A Site Incident Response Plan will be produced where quantities exceed 200ltrs. Only authorised personnel will be issued with a key to the bulk storage tanks for refuelling plant. When refuelling, the operator is to remain in attendance at all times.

The filling of BAM bulk storage tanks will be supervised by **BAM Logistics Manager**

- All personnel are to make themselves aware of the Site Incident Response Plan (SIRP) (405-406) which will be displayed in a prominent position. The Project Sustainability Manager is to be notified of all spillages, however minor.
- At least one BAM specification spill kit will be available on site, at the location detailed on the SIRP.
- Although equipment (like a funnel) will be used to prevent drips, a plant nappy (or drip tray) will be available when refuelling plant and equipment on site to prevent contamination as a result of minor spills and drips.
- Subcontractor method statements will include the provision of spill kits for activities that could result in a spill, leak or hose burst.
- Oils and other chemicals, in containers with a capacity of less than 200ltrs, will be stored within a locked store on a secondary containment system. Only authorised personnel will be issued with a key to this store.
- Place containers of fuel smaller than 200 litres on plant nappies when in use on site. Return the containers to their secondary containment system when they are no longer needed, at least at the end of every day.
- Oil storage will be set up so that rainwater does not accumulate in impermeable drip trays / bunds
- If oil is stored outdoors and rainwater collects in drip trays or bunds, any oil from the water will be removed with an oil only absorbent pad. Used pads will be disposed of as hazardous waste. (There are also proprietary cleaning systems available for example the PIG® Outdoor Oily Water Filter Bucket).
- The location of Subcontractors' oil storage areas and procedures must be agreed with BAM Site Management prior to any deliveries. No storage will be permitted within an area designated as a Source Protection Zone, within 10m of a watercourse or within 50m of a well or borehole.
- All hazardous materials will be kept within a locked storage area.

4.6 Nuisance Prevention

The following measures are to be implemented to reduce the nuisance to neighbours, and to ensure they have an appropriate amount of involvement with the project:

- Site working hours will be 08:00 to 18:00hrs Monday to Friday, and 08:00hrs to 14:00hrs on Saturday. No work is to be carried out on Sundays or Bank Holidays. (Times to be agreed at Contract)
- Site will be open for operatives to get ready etc, at 7.30am, however no noisy works will take place until after 8am. BAM have automated noise monitoring equipment in place to monitor.
- Send out a client approved newsletter before the start of the project, introducing the project team and giving a brief outline of the project, and thereafter at intervals of four months. The newsletter will include the name and telephone number of the Project Sustainability Manager. (Site Newsletter Template)
- The Local Authority's Environmental Health Officer will be kept informed of all upcoming activities that may impact on the local residents.
- All compliments, comments and complaints will be recorded. The Project Sustainability Manager will take immediate action on receiving a complaint, and respond to any complaint by the end of the next working day. A senior member of the project team will verify that the corrective action has been effective.
- All plant and machinery will be switched off when not in use.
- A road sweeper will be employed to keep all roadways on and adjacent to the site clear of mud and debris.
- Banksman with jet wash to be stationed at vehicle exit gate (as shown on BAM Logistics drawing). Jet wash will be used to hose off tyres before they leave the project hoarding confines, with trucks only allowed to leave once wheels and arches are clear of mud and debris. Road sweepers will be employed around site perimeter in regular visits to ensure high standards are kept. The wash down area will be cleared by BAM operatives and any mud and debris will be dealt with and removed- NOTE, this is for bulk dig, pile install and grade slab install phase of works.

4.7 Water Pollution Prevention Measures

The following measures are to be put in place to ensure there are no pollution incidents:

- Oil and liquid chemicals are to be stored and handled as described in the Oil, Fuel and Chemical Storage section of this plan.
 - A Site Incident Response Plan will be produced where quantities exceed 200ltrs.
 - Plant nappies and drip trays will be used to prevent leaks from plant and vehicles from contaminating land.
 - For larger pieces of equipment an impermeable area with controlled drainage will be used to prevent environmental incidents. This area will be located well away from controlled waters and surface water drains.
 - Machinery should be inspected and evidence recorded on the Work Equipment Inspection Form. Additionally all leaks are to be reported for immediate action.
 - Generators with external fuel tanks shall be operated in such a way so a hose burst will not result in an incident
 - No waste water is to be pumped to any Controlled Waters or to any Foul or Surface Water Drains.
-
- An impervious concrete wash out area, consisting of polythene lined skip is to be constructed at a convenient location. This is the only area where concrete wagons are permitted to wash out. The resulting waste water will be allowed to evaporate wherever possible. Where the water needs to be disposed of, it will be tankered off site.

4.8 Contaminated Land

- Describe how the spread of contaminants will be eliminated (or delete)
 - Wheel wash
 - Damping down
 - Provide bunds, cut off ditches, or other means to control surface water
 - Install specific arrangements to control ground water movement and flow
 - Separate out contaminated materials and store safely.
 - Store the contaminated materials in a particular way, for example to prevent contaminants leaching into the ground or into a controlled water.
 - Monitor the atmosphere at the workplace and site boundaries for both dust levels and contaminants in the dust.
- Describe how ground and surface water will be disposed of if it is contaminated or is likely to become contaminated.
 - Formal discharge consent from local water authority or environment agency
- If any suspected contaminated ground is encountered during the works, this is to be reported to the site management.

4.9 Other Control Measures

- **Phasing and quantification / classification of vehicular activity associated with planned construction**
 - Minimal vehicle activity for the enabling works phase
 - Initial deliveries include an excavator, skip, tractor/chipper
 - The vehicles on site for the 2 week duration of works will be two number site transit type vehicle

- **Commentary on types and frequency of vehicular demands together with evidence (including appropriate swept-path assessment) of satisfactory routing both within the site and on the adjacent highway together with associated traffic management;**
 - As detailed above there the frequency of vehicle activity will be minimal and a maximum of 4 vehicles per day.
 - Swept path analysis for vehicles will not be required for the enabling works as the deliveries and daily activity is minimal and will have no issues with the access roads due to being standard sized vehicles.
 - Routing of vehicles to site will be via the access barriers then straight ahead to the area of enabling works. This is away from the main hospital entrance

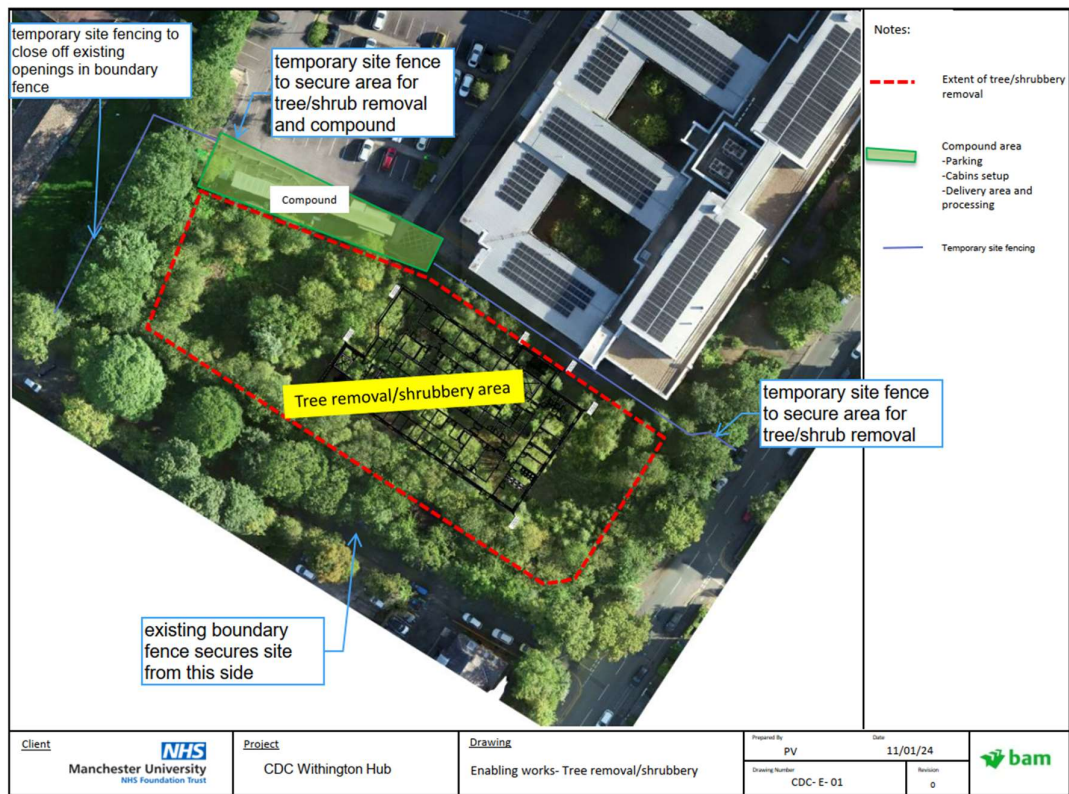
- **Appropriate measures to manage construction works which are likely to take place alongside usual hospital operations;**
 - During the enabling works (tree/shrubbery removal) areas of work will be fenced off appropriately from the hospital/ public
 - Vehicular movements are minimal so no special requirements will be needed for the enabling works stage.

- **Details of the parking for construction vehicles and associated contractor parking**
 - The enabling works will have two transit vehicle parking daily which will be in the compound are see drawing 'Enabling works- Tree removal/shrubbery'

Note:

See Appendix 1 and 2 for 'Enabling works and tree/shrubbery removal' and 'traffic management' drawing.

Appendix 1



Appendix 2



4.10 Training

The following measures will be employed to ensure the Environmental Aspects and Controls are communicated to the relevant site personnel.

- Control measures noted above, along with details of the Resource Management Plan will be communicated to all Site Operatives at their initial Site Induction.
- An Environmental Notice Board in the site canteen will contain the following information:
 - BAM Environmental Policy Statement.
 - Relevant Environment Posters.
 - The latest relevant BAM Environmental Bulletin.
 - Site Incident Response Plan (SIRP) for oil.
 - Toolbox talks and/or other information relevant to the project.
 - Performance against, energy, water and waste targets
- Environmental Toolbox Talks relevant to site activities will be conducted once per month. Ecology toolbox talks will be undertaken based on the findings and recommendations for protection of ecological features highlighted within the Suitably Qualified Ecologist's report.

Site specific controls:

4.11 Emergency Procedures

A Site Incident Response Plan is to be displayed at all storage locations where 200 litres or more of a possibly polluting substance is to be stored.

Complete the plan to include the additional emergency procedures that may be required due to project specific hazards and display at all storage locations.

[Site Incident Response Plan](#)

4.12 Resource Management Plan

A Resource Management Plan (RMP), which complies with the requirements of the Site Waste Management Plan Regulations where they apply, has been drawn up.

The RMP has been produced to ensure that resource efficiency measures have been taken and that all waste from this site is to be managed appropriately and dealt with in accordance with Section 34 of the Environmental Protection Act 1990 (Waste Duty of Care) and the Environmental Protection (Duty of Care) Regulations.