

# CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN

FOR

Chorlton Baths

|                                                |                                                                                                            |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| <b>Report Title</b>                            | Chorlton Baths<br>Construction Environmental Management Plan &<br>Demolition plan                          |
| <b>Report Reference</b>                        | CEMP                                                                                                       |
| <b>Revision Number</b>                         | Issue 2                                                                                                    |
| <b>Issue Date</b>                              | 16/05/24                                                                                                   |
| <b>Client</b>                                  | Mosscafe St Vincents Housing Group Limited<br>7th, Trafford House,<br>Chester Rd,<br>Stretford,<br>M32 0RS |
| <b>Principal Designer</b>                      | TBC<br>??<br>??<br>??                                                                                      |
| <b>Project Manager / Quantity<br/>Surveyor</b> | Simon Fenton partnership<br>4 Burton Place<br>Castlefield<br>Manchester<br>M15 4PT                         |
| <b>Architect</b>                               | Buttress<br>41 Bengal Street<br>Manchester<br>M4 6AF                                                       |
| <b>Structural</b>                              | Reid Jones Partnership<br>9 Orrell Road<br>Wigan<br>WN5 8EY                                                |

**Regulatory Authority**

Environmental Agency  
Richard Fairclough House  
Warrington  
Cheshire  
WA4 1HG

**Building Control**

Assent  
Beehive Mill  
Manchester  
M4 6JG

**Hospital**

Manchester Royal Infirmary  
Oxford Road  
Manchester

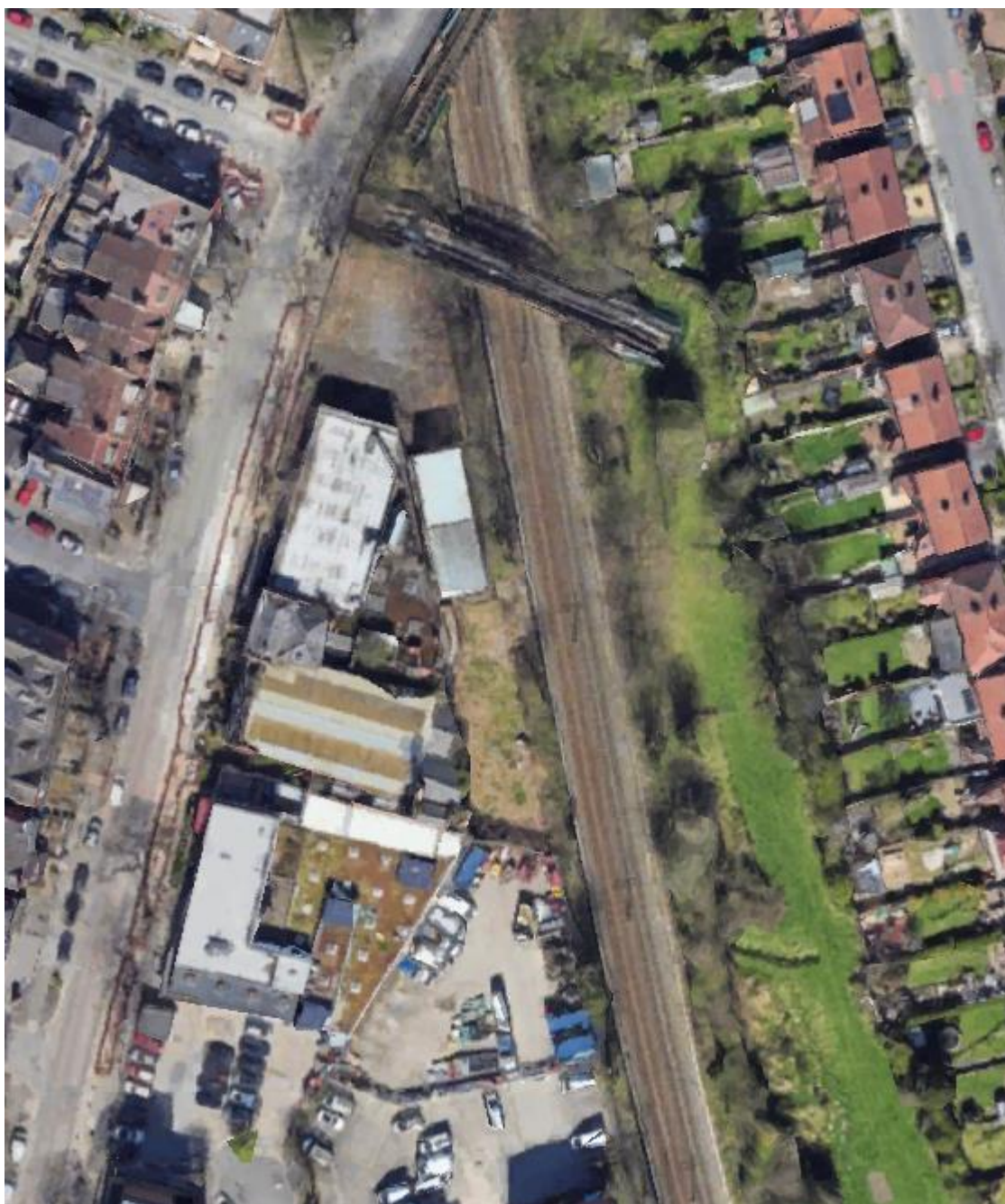
**1.0 Introduction**

MSV Housing Group is to appoint a Principal Contractor to carry out and complete the design and construction apartment on the site of Chorlton Baths  
The proposal is to locate two new buildings on the land under acquisition, on the corner of the site adjacent to the Metro link Manchester road and a aqueduct .  
The works comprise of the demolition of the existing Building, design, construction, completion and defects rectification of the new Apartments complete with associated communal and circulation areas, external works, drainage and services.

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**1.1 Site Location and Description**

The site is located as follows;  
Former Chorlton Baths  
Manchester Road  
Chorlton  
Manchester



???

The site is approximately 4 miles from Manchester City Centre and is approximately centred on National Grid Ref. Eastings 381703 Northings 394513  
The site currently houses a vacant former Lesure building and areas of hardstanding / car park usage.

## 1.2 Background

This Construction Environmental Management Plan is prepared in order to satisfy planning condition 4 of the aforementioned application which states:

4) Notwithstanding the details submitted, prior to the commencement of demolition/development, a construction management and demolition management plan outlining working practices during development shall be submitted to and approved in writing by the City Council as Local Planning Authority, which for the avoidance of doubt should include:

- Measures to control noise and vibrations;
- Safe methods of working adjacent the Metrolink boundary;
- Dust suppression measures;
- Compound locations where relevant;
- Location, removal and recycling of waste;
- Detail of an emergency contact telephone number;
- Parking of construction vehicles; and
- Sheeting over of construction vehicles.
- Loading and unloading of plant and materials;
- Storage of plant and materials;
- Construction methods to be used; including the use of cranes if intended (which must not over-sail the tramway);
- Site hoarding; scaffolding and acoustic fencing.

The development shall only be carried out in accordance with the approved construction management plan.

Manchester City Council encourages all contractors to be 'considerate contractors' when working in the city by being aware of the needs of neighbours and the environment.

Membership of the Considerate Constructors Scheme is highly recommended.

**Reason** - To safeguard the amenities of nearby residents pursuant to policies SP1, EN19 and DM1 of the Manchester Core Strategy.

Prior to the commencement of development on site including any demolition works on site a Construction Management Plan shall be submitted to and approved in writing by the City Council as local planning authority. The development shall be carried out in accordance with the agreed plan which shall include:

## 2.0 Emergency Contact Details

Head office – Warrington 01925 640890

Contract Manager – Andrew Canning 07801968440

## 3.0 Hours of Work

The intended hours of work will be as follows:

08.00 to 17.30                      Monday to Friday

08.00 to 13.00                      Saturday 8.30 to 2pm (if required )

#### 4.0 Access Routes onto the Site and Site Parking

Access routes to site will be as follows:

A New site entrance will be formed and we will also be using the existing access for site offices and welfare off Manchester rd ,. Deliveries will be directed to arrive / depart from site from Manchester road . The site will have a timber hording erect around site on the original site boundary this will give protection to noise & dust.

This entrance will be gated and controlled by a gateman. The entrance will be used for both inbound and outbound visitors, staff, construction personnel and delivery vehicles of various sizes. Separate pedestrian access will be provided and clearly signed.

The gates will be kept shut and locked at all times when not in use. Gates will be set back from the adopted highway to prevent construction vehicles from overhanging onto the carriageway.

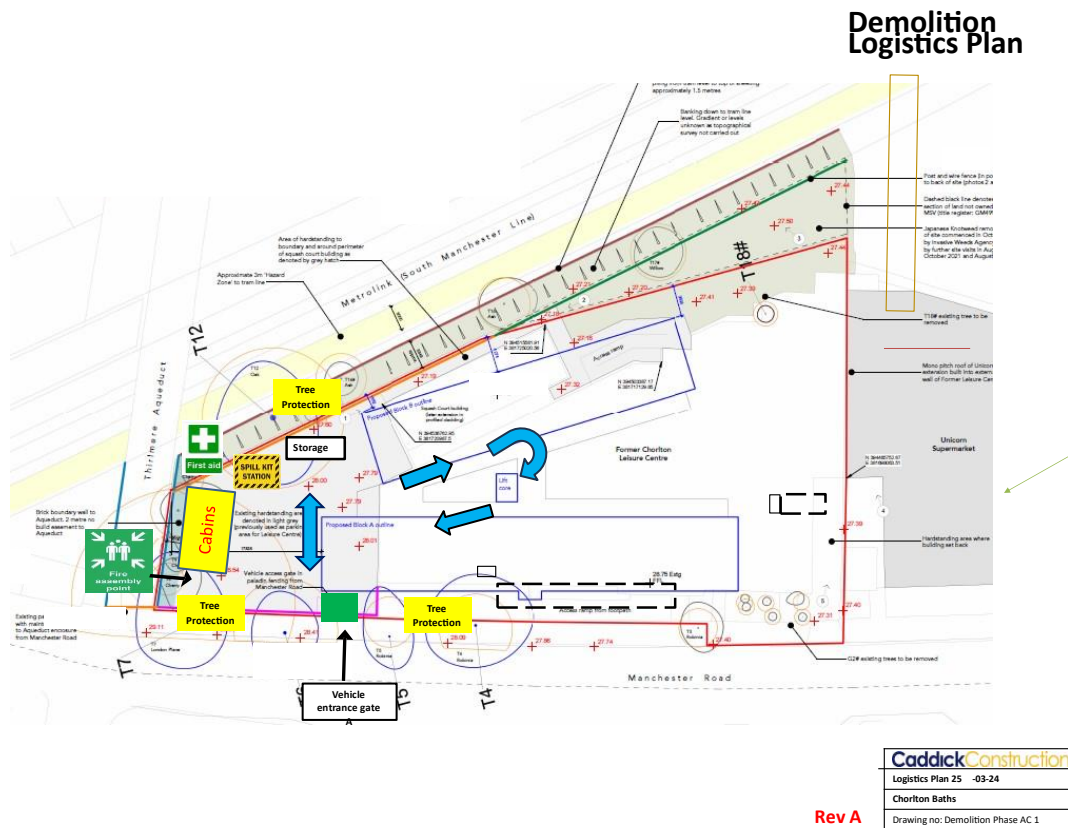
The Site Compound and contractors parking will be located inside the access gates as indicated on the plan below.



All Contractors Parking will off site. At no point will construction vehicles and construction staff be parked on the adopted highway. All loading and unloading will occur on-site and not on the adopted highway.

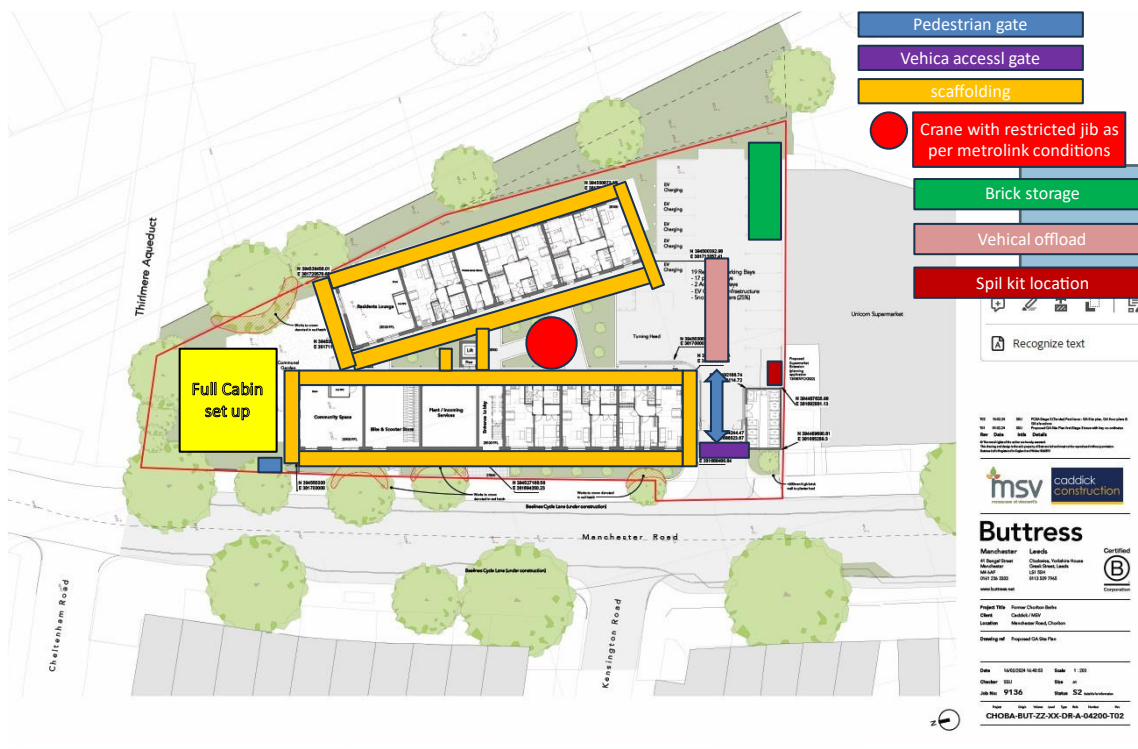
## **Demolition**

The old baths will need to be Demolished this will be done by an approved contractor full Rams will be in place. They will use the existing car park entrance and car park to do the demolition & remove any material from site but a lot of the material will be recycled. Additional fencing will be erected for security & safety reasons with debris netting installed once the demolition has been completed a timber hording will be erected . There will be dust control measures put in place using a water canon to control the dust there will be Scaffold erected to protect the public and assist with dust measures. Once the demolition is completed a timber acoustic fence will be erected and the front and new permanent entrance will be formed.



## **Traffic Management Plan**

A full detailed Traffic Management Plan will be produced prior to the works commencing. This plan will be implemented, developed, and updated on a regular basis in line with the changing construction sequences. The plan will contain details for all the deliveries, crane locations, vehicle/pedestrian routes, emergency vehicle and fire escape routes for works within the site boundary and to the external work areas.



## Construction related Vehicle types and Frequency

The types and frequency of vehicles will vary, dependant on the programming and sequence of construction activities.

Peak frequency activities are likely to occur during import / export of excavated or fill material, or during mass concrete pour activities.

All other deliveries will be generally low frequency activities.

Types of vehicle will include:

- Twin axel tipper trucks: Removing / Importing excavated or fill material. Anticipated Max 5No trucks / day (peak)
- Concrete Delivery trucks: Delivering Ready mixed concrete. Anticipated Max 5No trucks / day (peak)
- Flatbed rigid body trucks: General deliveries. Infrequent, Anticipated 1-2 No trucks / day
- Articulated tractor units and flatbed trailers. Delivery of Plant, Steel, Cladding materials Infrequent, Anticipated Max 1-2 No trucks / day.
- Mobil crane to erect the steel frame this will be in accordance with the metro link stipulations.
- Vibration monitoring will be in place for the CSF piling.

There will be no reversing onto the adopted highway. Vehicles will enter by reversing into site by a banksman and exit the site in forward gear at all times.

Suitable measures will be in place to prevent materials from entering the adopted highway. All construction vehicles will be subject to wheel washing. Road sweeping facilities will be available in the event materials are discharged into the highway.

The construction access points will be wide enough to accommodate Delivery's on site but will be limited to one vehicle at a time and a booking procedure will be implicated

Any lighting will be screened to prevent any glare to the adopted highway.

### **Noise Levels**

Noise levels will be monitored on a daily basis as will Vibration The site will have A timber hording around site to assist with Noise pollution and vibration monitors will be used.

Below are the two main areas of noise within the build and levels of noise.

### **Demolition**

Even with ear protection, noise levels must not exceed 87dB. Our results show that during our most intense work (breaking out concrete, crushing concrete and excavations) the noise levels at site boundaries are usually between 61dB to 85dB with an average level of 71dB.

For vibration, we use a conservative monitoring trigger value of 15mm/s taken from BS 7385-2: 1993 Part 2: Guide to Damage Levels from Groundborne Vibration.

During normal operation of the monitor, and while undertaking excavations, breaking out concrete with a hydraulic breaker, and crushing rubble with mobile crushing plant, we generally don't exceed 2.5mm/s.

On a similar type and size site to Chorlton Baths, that we did in Rochdale the average PPV at the site boundaries was 1.73mm/s during our most intense work.

These works are programmed in for a 5-to-7-week duration.

### **Pilling works**

These works will be CSA piles to mitigate excessive noise & vibration

Attached noise data for Soilmec SR35 & concrete pumping set up. Noise should be getting below 80dB(A) between 10 & 15m from source [not taking into account hoarding etc.]

Document Type: Controlled Form  
Document Description: Noise Monitoring  
Document Number: SM/05-06  
Version: 0001  
Issue date: 19/05/2021 16:01:32  
Reviewed by: Jacques Eardley  
Approved by: Dave Alexander

Caddick  
Construction

**CaddickConstruction.**

#### NOISE MONITORING SHEET

SITE NAME:

MONITORS NAME:

| LOCATION OF READING TAKEN | dBA READING | TASK/OPERATION IN CLOSE PROXIMITY | REQUIREMENT OF EXCLUSION ZONE & EAR PROTECTION | SIGNATURE OF MONITOR | DATE |
|---------------------------|-------------|-----------------------------------|------------------------------------------------|----------------------|------|
|                           |             |                                   |                                                |                      |      |
|                           |             |                                   |                                                |                      |      |
|                           |             |                                   |                                                |                      |      |
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|                           |             |                                   |                                                |                      |      |

### Noise Assessment Record Soilmec SR35 (G26)



|                                                                                                                                                                                                                                                                                                                                                          |                                                                                          |                                        |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|----------------------------------------|-------|
| Task undertaken                                                                                                                                                                                                                                                                                                                                          | Concrete pumping to form CFA piles (Hired pump & Drum MD5)                               |                                        |       |
|                                                                                                                                                                                                                                                                                                                                                          | Location                                                                                 | Sound Pressure Level, L <sub>Aeq</sub> |       |
|                                                                                                                                                                                                                                                                                                                                                          | Cab (Window closed)                                                                      | -                                      | dB(A) |
|                                                                                                                                                                                                                                                                                                                                                          | Cab (door open)                                                                          | 83-87                                  | dB(A) |
|                                                                                                                                                                                                                                                                                                                                                          | 5m from machine                                                                          | 83-87                                  | dB(A) |
|                                                                                                                                                                                                                                                                                                                                                          | 10m from machine                                                                         | 79-84                                  | dB(A) |
|                                                                                                                                                                                                                                                                                                                                                          | 15m from machine                                                                         | 77-81                                  | dB(A) |
|                                                                                                                                                                                                                                                                                                                                                          | 20m from machine                                                                         | -                                      | dB(A) |
|                                                                                                                                                                                                                                                                                                                                                          | Background noise                                                                         | 68                                     | dB(A) |
|                                                                                                                                                                                                                                                                                                                                                          | Daily Personal Noise Exposure (L <sub>EP,a</sub> )                                       |                                        |       |
|                                                                                                                                                                                                                                                                                                                                                          | Operatives 5m from front of machine                                                      | 83                                     | dB(A) |
|                                                                                                                                                                                                                                                                                                                                                          | Machine operator                                                                         | 83                                     | dB(A) |
| <b>Notes:</b> <ul style="list-style-type: none"> <li>Noise readings are greater around the rear of the rig.</li> <li>Noise levels at ground level increase as drilling brings the rotary head down</li> <li>Sound levels radiating from the machine will vary depending on prevailing site conditions and proximity of surrounding structures</li> </ul> |                                                                                          |                                        |       |
| Noise Control Measures                                                                                                                                                                                                                                                                                                                                   | Engine bay doors closed during operation.<br>Regular maintenance of equipment conducted. |                                        |       |

### Noise Assessment Record Concrete Drum & Pump



|                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                             |                                        |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-------|
| Task undertaken                                                                                                                                                                                                                                                                                                             | Concrete pumping to form CFA piles (Hired pump PM55 & Drum MD5)                                                                                                                                                                                                                                                                                             |                                        |       |
|                                                                                                                                                                                                                                                                                                                             | Location                                                                                                                                                                                                                                                                                                                                                    | Sound Pressure Level, L <sub>Aeq</sub> |       |
|                                                                                                                                                                                                                                                                                                                             | Cab (Window closed)                                                                                                                                                                                                                                                                                                                                         | N/A                                    | dB(A) |
|                                                                                                                                                                                                                                                                                                                             | Drum platform                                                                                                                                                                                                                                                                                                                                               | 84-91                                  | dB(A) |
|                                                                                                                                                                                                                                                                                                                             | 5m from machine                                                                                                                                                                                                                                                                                                                                             | 85+1                                   | dB(A) |
|                                                                                                                                                                                                                                                                                                                             | 10m from machine                                                                                                                                                                                                                                                                                                                                            | 83                                     | dB(A) |
|                                                                                                                                                                                                                                                                                                                             | 15m from machine                                                                                                                                                                                                                                                                                                                                            | 79                                     | dB(A) |
|                                                                                                                                                                                                                                                                                                                             | 20m from machine                                                                                                                                                                                                                                                                                                                                            | -                                      | dB(A) |
|                                                                                                                                                                                                                                                                                                                             | Background noise                                                                                                                                                                                                                                                                                                                                            | -                                      | dB(A) |
|                                                                                                                                                                                                                                                                                                                             | Daily Personal Noise Exposure (L <sub>EP,a</sub> )                                                                                                                                                                                                                                                                                                          |                                        |       |
|                                                                                                                                                                                                                                                                                                                             | Pump operator (combination of work on ground and on drum platform)                                                                                                                                                                                                                                                                                          | 86                                     | dB(A) |
| <b>Notes:</b> <ol style="list-style-type: none"> <li>Noise levels increase to 92 dB at 5m when the drum is spun at full revs</li> <li>Main noise is the pump exhaust.</li> <li>Sound levels radiating from the machine will vary depending on prevailing site conditions and proximity of surrounding structures</li> </ol> |                                                                                                                                                                                                                                                                                                                                                             |                                        |       |
| Noise Control Measures                                                                                                                                                                                                                                                                                                      | Engine bay doors closed during operation.<br>Regular maintenance of equipment conducted.<br>Correctly fitted hearing protection with minimum SNR value of 30 must be worn by the pumpman during pumping (whilst stood on the drum platform) or when working within 5metres of the pump for longer periods<br>Engine revs dropped when not pumping concrete. |                                        |       |

These works have a duration of 2-3 weeks.

## Ground Vibration Monitor

A tool to monitor and record ground vibration levels with a visual and audio alarm when using a MGF Piling Hammer (EMV). The Ground Vibration Monitor ensures that vibration levels do not get beyond a certain amount, dependent on the works being conducted.

BATTERY POWERED WITH A 4-5 WEEK BATTERY LIFE

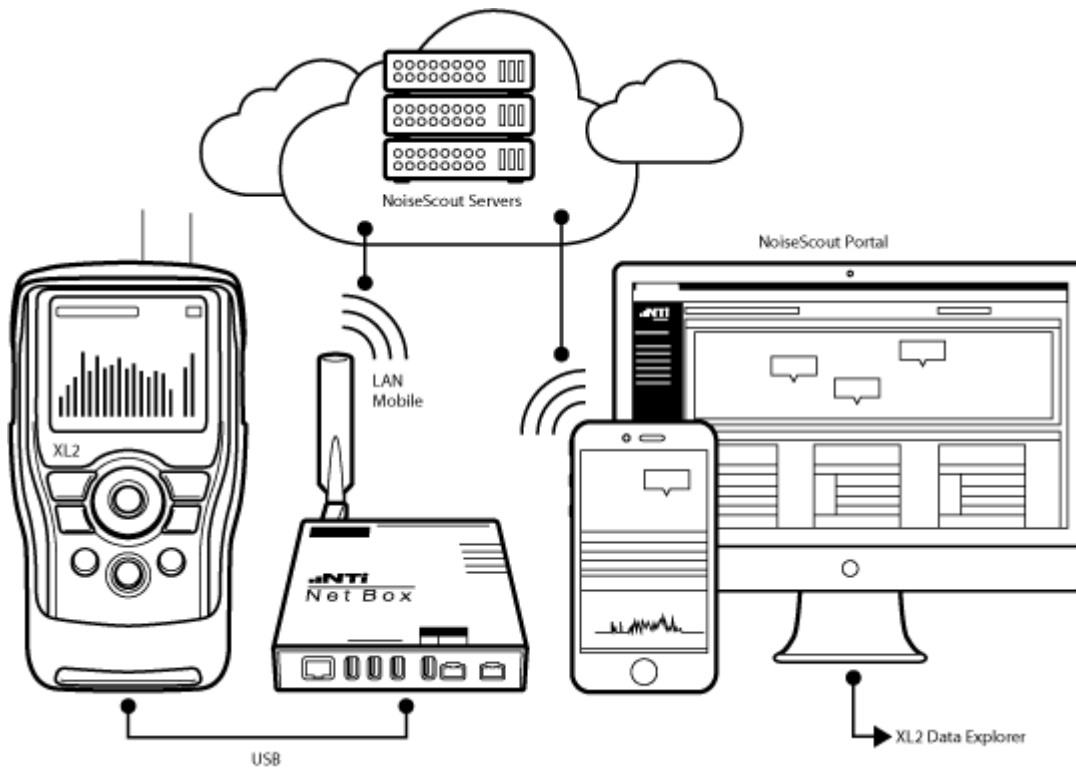
IP67 RUGGED CASE WITH LCD PANEL FOR DISPLAY

STORED VIBRATION DATA FOR 3 AXES AT 1 MILLISECOND INTERVALS

SUITED FOR USE WITH MGF PILING HAMMER (EMV)

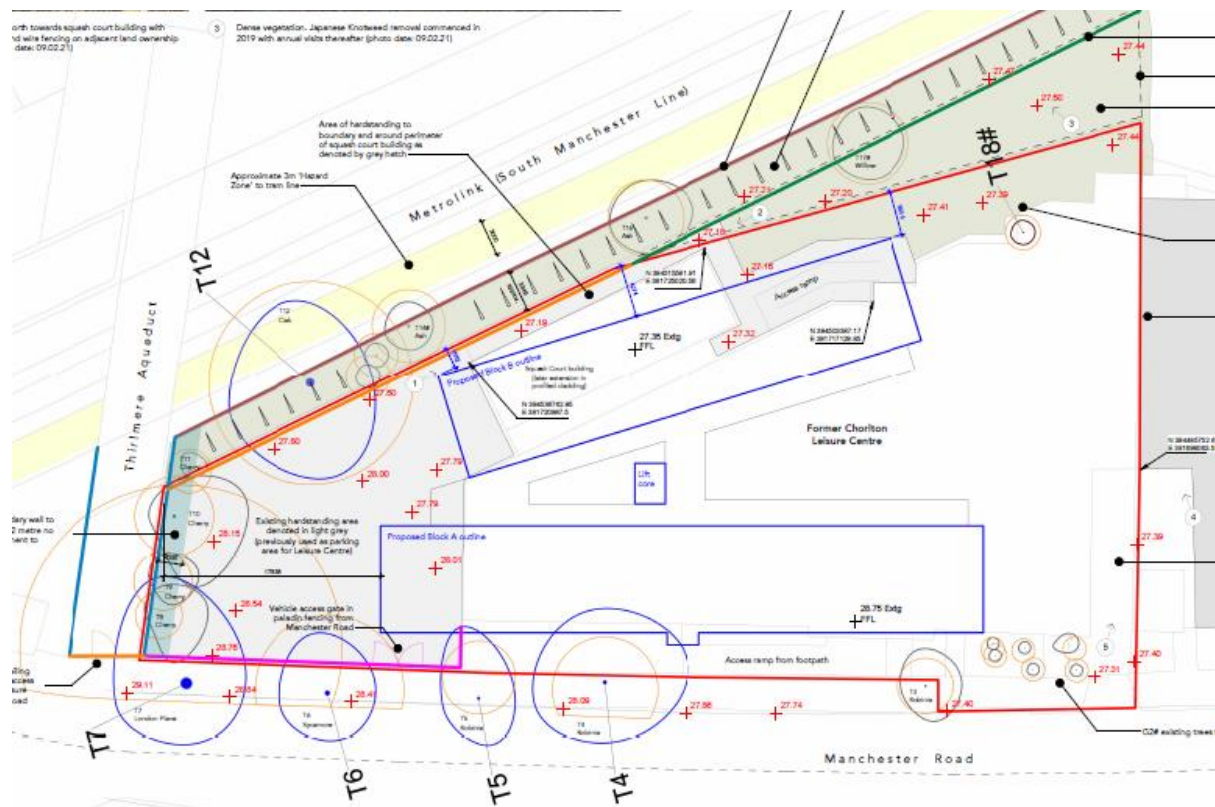


Complete with an alarm box, transducer, data logger and tripod.

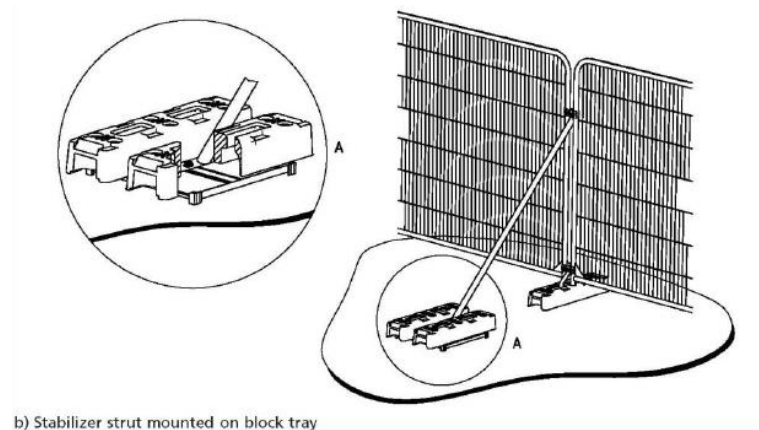


## Tree Protection

Tree protection will be installed as indicated on the plan below. A meeting with the tree officer will take place prior to cabins and scaffold is erected to agree the correct strategy for the development.



The fencing will be installed using heras style fencing and supported as indicated below,



We note that relevant tree felling, and habitat surveys have previously been undertaken.

## **5.0 Noise and Vibration Control**

It is appreciated that noise from construction works can be intrusive or disruptive to local businesses and for this reason our activities / deliveries will only be undertaken between the working hours noted above and in accordance with the approved planning conditions.

Environmental Monitoring Points around the site, in locations close to local residents / businesses will be established.

Noise levels will be measured/monitored regularly by the use of a noise meter at the monitoring points and recorded within the site diary.

Mitigation measures will include the following:

Noisy operations will be eliminated where practicable.

Site plant for the purpose of the works will be fitted with effective exhaust silencers.

Machines/plant in intermittent use will be shut down in intervening periods between work.

Plant and vehicles will be started up sequentially rather than all together.

Plant will be well maintained and serviced regularly.

Wherever practicable tools of low noise emission will be used.

The above measures will be incorporated in the Method statements and risk assessments developed for the works.

At present we do **not** consider that vibration will be a significant issue due to the following:

The ground compaction will be by towed rollers and not by any means of dynamic hammer compaction.

We are aware that where there are significant Heavy Goods Traffic present, vibration issues can be created, especially where road surfaces are in poor repair. The frequency of heavy goods vehicles entering and leaving the site will not be so excessive to create problems in this regard nor will be sufficiently close to existing neighbouring structures.

## **6.0 Dust Mitigation**

Dust levels will be regularly monitored, visually, from the Environmental Monitoring points recorded in the site diary.

At present it is not anticipated that there will be surplus earthworks overburden to be carted off site, however in the event of any materials being taken off site then covered vehicles will be employed to minimise dust liberations. When aggregates are delivered to site, these too will be delivered in covered tipper vehicles and their tipping will be supervised by a banksman. The banksman will ensure that tipping is done in a controlled manner to avoid the creation of dust clouds.

No mechanical cutting of materials will be undertaken without suitable and sufficient measures in place for the control of dust. This will include dust suppression attachments in place and in use for wetting down at the cutting edge or the provision of a tool extraction.

In the case of adverse weather conditions (Hot / dry weather) a full wetting down operation will be undertaken utilising towed water dispenser bowsters and vehicles will be restricted to determined routes on site.

Emissions from plant/vehicles will be kept to a minimum by keeping plant properly maintained and regularly serviced and as noted above machines/plant in intermittent use will be shut down in intervening periods between work.

With respect to Air Quality generally it will be a site rule that there shall be no burning of ANY materials on site and it will be ensured that this rule is implemented and complied with.

## **7.0 Information / Consultations / Neighbours**

The principal contractor will register the project with the Considerate Constructors Scheme. This scheme sets and monitors the site against industry standards and helps



to integrate the site with its surroundings and adjoining neighbours as well as focusing on site appearance / safety / welfare / environmental and community issues.

### **Community consultation**

A proactive approach will be taken to keeping site neighbours informed.

Prior to commencing on site, a letter drop will be completed for residents in the immediate vicinity. This will inform of the proposed works / dates and the company contact details. Site Contact details will also be issued and displayed around the site.

A monthly newsletter will also be issued locally to inform of the progress of the works along with notice of any planned upcoming disruptive operations.

Regular visits from the regulatory authorities will be encouraged so that they may be confident that controls are in place. This will aid the authorities in responding to any enquiries from the public.

## **8.0 Management Systems**

It is intended that the principal contractor is an ISO 14001, ISO 9001 and OHSAS 18001 Accredited Contractor, all operations on site will be undertaken in accordance with

these integrated systems and procedures.

## **9.0 Cleanliness of Existing Carriageways and Delivery Information**

The principal contractor will monitor ground conditions and will endeavour to control traffic on site to traffic clean stone areas, however should there be a risk that site traffic could cause mud on neighbouring carriageways then wheel washing facilities will be put in place and where necessary road sweepers will be deployed. Deliveries will be so co-ordinated with suppliers to avoid peak periods and offloading restricted to site.

## **10.0 Recycling / Disposal of Waste from Demolition.**

The works do involve demolition, it is intended to re-use any generated materials in the form of concrete crushing or similar.  
There will be some waste materials. The principal contractor will dispose of Waste in skips which will be sent to sorting depots who segregate the waste for recycling.

## **11.0 Storage of Plant and Materials**

Material Laydown areas (hardcore areas) will be put in place adjacent to each unit within the hoarded site boundaries (as noted on the previous logistics plan). Plant will be stored within the site compound.

## **12.0 Monitor and Review**

It will be the responsibility of the principal contractor to implement, monitor and review this CEMP. Review will take place if there are any significant changes / conditions / required further actions / complaint resolutions or as a minimum every 8 weeks. Any changes to the identified CEMP mitigation measures from either the regular review process or following receipt of a complaint will be forwarded to the Local Planning Authority within 24hrs of a change being agreed or implemented."

## **13.0 Dilapidation Survey**

The survey will take place 1 week prior to the works beginning and appended to this CEMP known as **Appendix A**

## **Appendix A - Dilapidation Survey**

**To be added in once completed**

